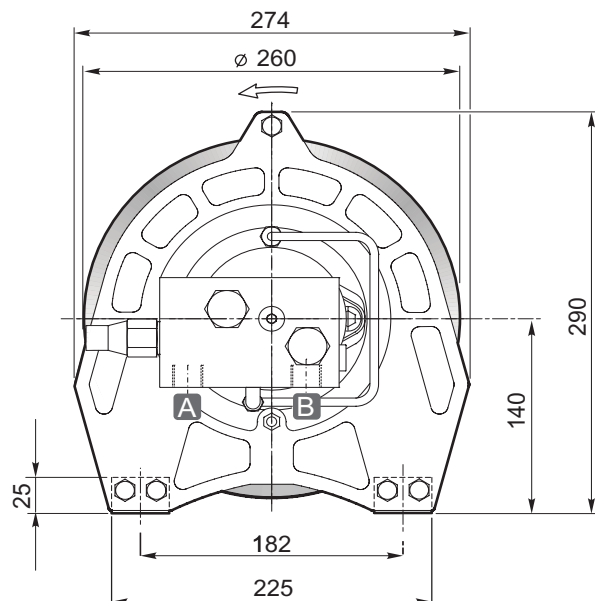
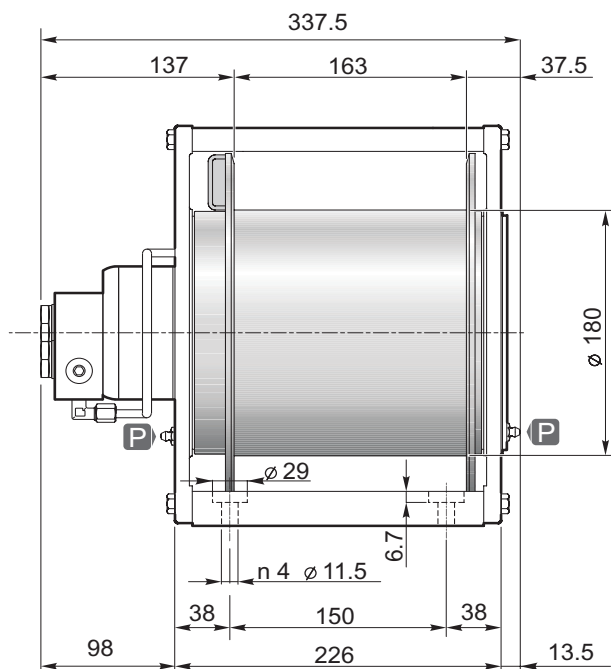


 ***dinamic oil***

P6



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|---------------------|------|------|-----|-----|
| Tiro diretto Line pull | [daN] | 750 | 700 | 650 | 600 |
| Velocità fune con Rope speed with | 30 [L/1'] [m/1'] | 24.5 | 26.5 | 28 | 30 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 13 | 27 | 41 | 57 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 11 | 23 | 36 | 50 |

| | | |
|--|--------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 115 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 40/10 |
| Cilindrata motore Motor displacement | [cm³] | 100 |
| Rapporto di riduzione Gear ratio | 1: | 6 |
| Diametro fune consigliato Advised rope diameter | [mm] | 7 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 1/2" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| P Ingrassatore Grease nipple | 1/8" |
|--|------|

| | |
|---------------------------|----|
| kg Massa Weight | 33 |
|---------------------------|----|

| Tamburo/Drum | Smooth | Grooved** |
|--------------|--------|-----------|
| | 1 | 2 |

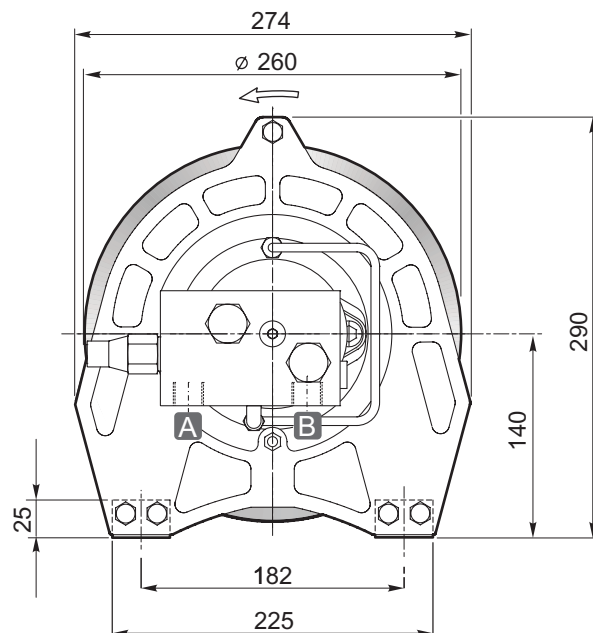
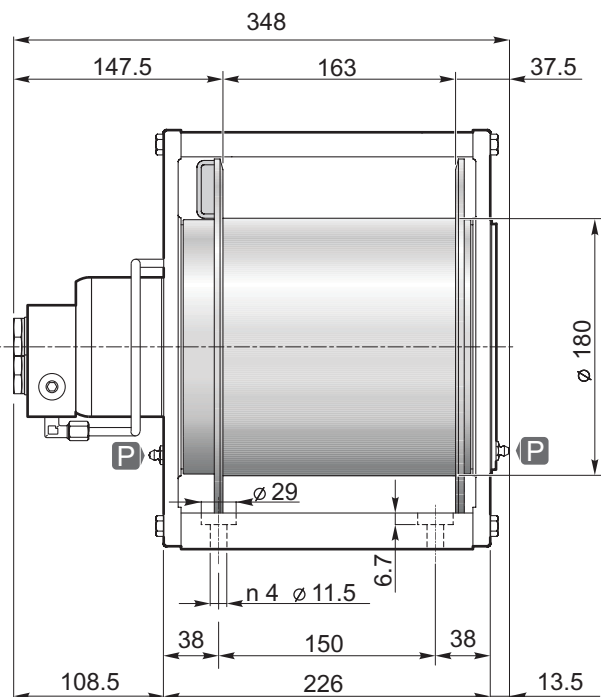


Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 25 daNm.
- Lubrificazione interna a grasso.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolte.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M10 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 25 daNm of static torque.
- Internal lubrication with grease.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M10 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|--------------|------|------|------|-----|
| Tiro diretto Line pull | [daN] | 1000 | 920 | 850 | 800 |
| Velocità fune con Rope speed with | 40 [L/1'] | 20 | 21.5 | 23.5 | 25 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 11 | 23 | 36 | 50 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 10 | 21 | 32 | 44 |

| | | |
|--|--------------------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 100 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 40/10 |
| Cilindrata motore Motor displacement | [cm ³] | 160 |
| Rapporto di riduzione Gear ratio | 1: | 6 |
| Diametro fune consigliato Advised rope diameter | [mm] | 8 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 1/2" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| P Ingrassatore Grease nipple | 1/8" |
|--|------|

| | |
|-----------------|----|
| Massa Weight | 33 |
|-----------------|----|

Tamburo/Drum 1 2**



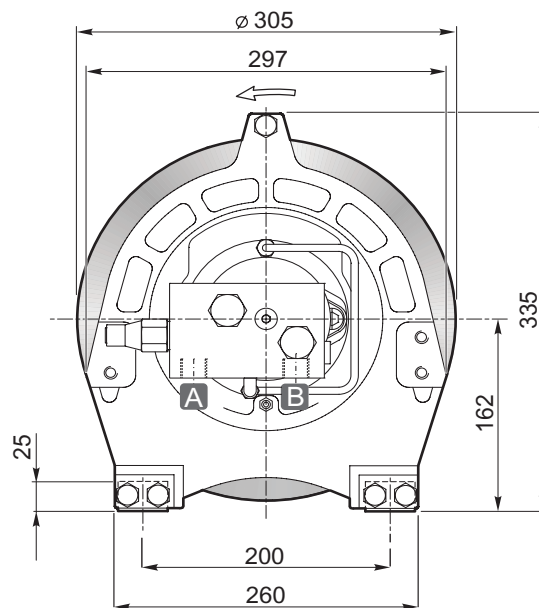
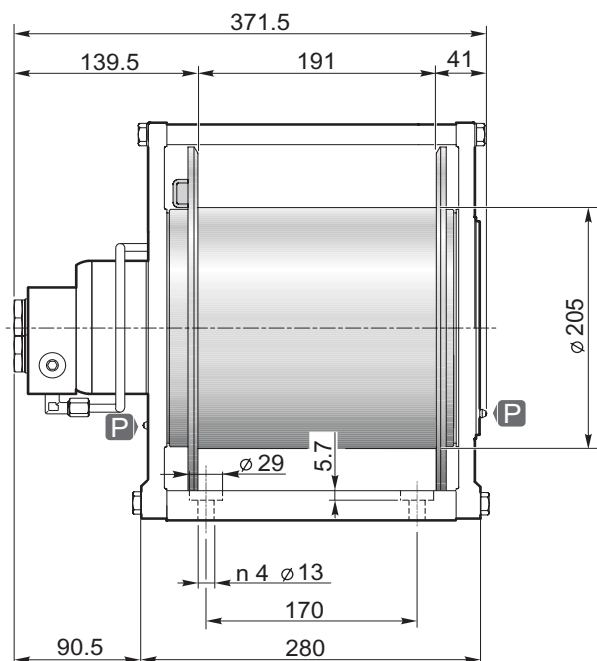
Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 25 daNm.
- Lubrificazione interna a grasso.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M10 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 25 daNm of static torque.
- Internal lubrication with grease.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M10 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

P9



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|--------------|------|------|------|-----|
| Tiro diretto Line pull | [daN] | 1100 | 1000 | 950 | 900 |
| Velocità fune con Rope speed with | 40 [L/1'] | 27.5 | 29.5 | 31.5 | 34 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 15 | 31 | 49 | 68 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 13 | 28 | 44 | 60 |

| | | |
|--|--------------------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 145 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 55/15 |
| Cilindrata motore Motor displacement | [cm ³] | 160 |
| Rapporto di riduzione Gear ratio | 1: | 5.04 |
| Diametro fune consigliato Advised rope diameter | [mm] | 8 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 1/2" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| P Ingrassatore Grease nipple | 1/8" |
|--|------|

| | |
|---------------------------|----|
| kg Massa Weight | 54 |
|---------------------------|----|

| | | |
|--------------|-------------|----------------|
| Tamburo/Drum | Smooth 1 | Grooved 2** |
|--------------|-------------|----------------|

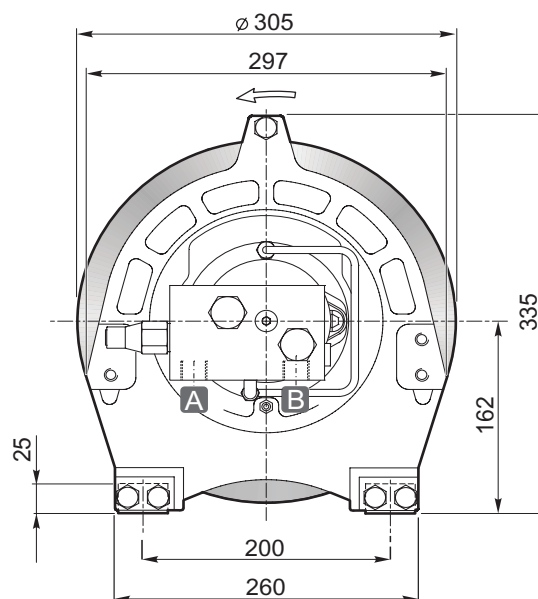
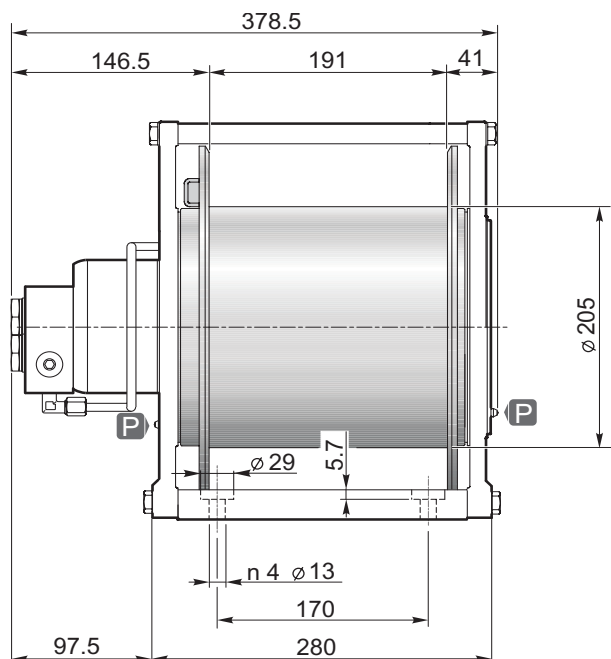


Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 57 daNm.
- Lubrificazione interna a grasso.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M12 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 57 daNm of static torque.
- Internal lubrication with grease.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M12 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|------------------------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 1500 | 1370 | 1260 | 1170 |
| Velocità fune con Rope speed with | 50 [L/1'] [m/1'] | 27.5 | 30 | 32.5 | 35 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 12 | 26 | 40 | 55 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 11 | 23 | 36 | 50 |

| | | |
|--|--------------------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 150 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 55/20 |
| Cilindrata motore Motor displacement | [cm ³] | 200 |
| Rapporto di riduzione Gear ratio | 1: | 5.04 |
| Diametro fune consigliato Advised rope diameter | [mm] | 10 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 1/2" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| P Ingrassatore Grease nipple | 1/8" |
|--|------|

| | |
|-----------------|----|
| Massa Weight | 54 |
|-----------------|----|

| Tamburo/Drum | Smooth | Grooved** |
|--------------|--------|-----------|
| | 1 | 2 |



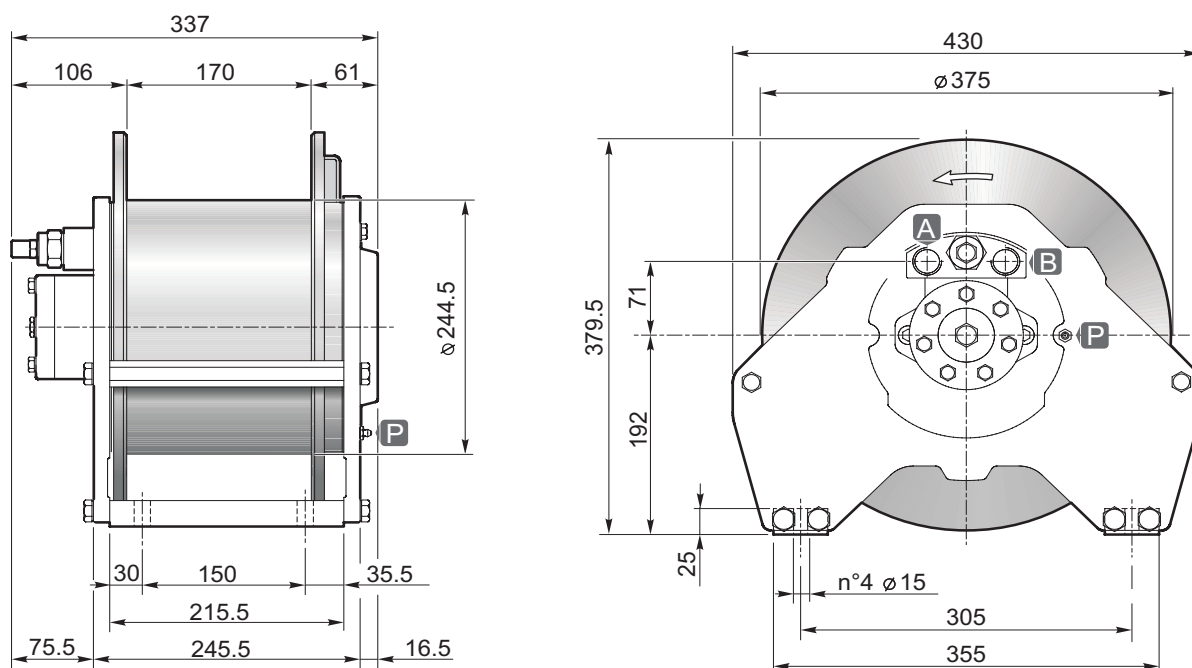
Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 57 daNm.
- Lubrificazione interna a grasso.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M12 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 57 daNm of static torque.
- Internal lubrication with grease.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M12 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

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THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

P15



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|------------------------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 2000 | 1850 | 1730 | 1600 |
| Velocità fune con Rope speed with | 60 [L/1'] [m/1'] | 30 | 32 | 34.5 | 37 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 13 | 26 | 41 | 57 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 12 | 24 | 37 | 51 |

| | | |
|--|--------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 170 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 75/25 |
| Cilindrata motore Motor displacement | [cm³] | 249 |
| Rapporto di riduzione Gear ratio | 1: | 5.77 |
| Diametro fune consigliato Advised rope diameter | [mm] | 10 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| P Ingrassatore Grease nipple | 1/8" |
|--|------|

| | |
|-----------------|----|
| Massa Weight | 80 |
|-----------------|----|

Tamburo/Drum Smooth
1 Grooved
2**



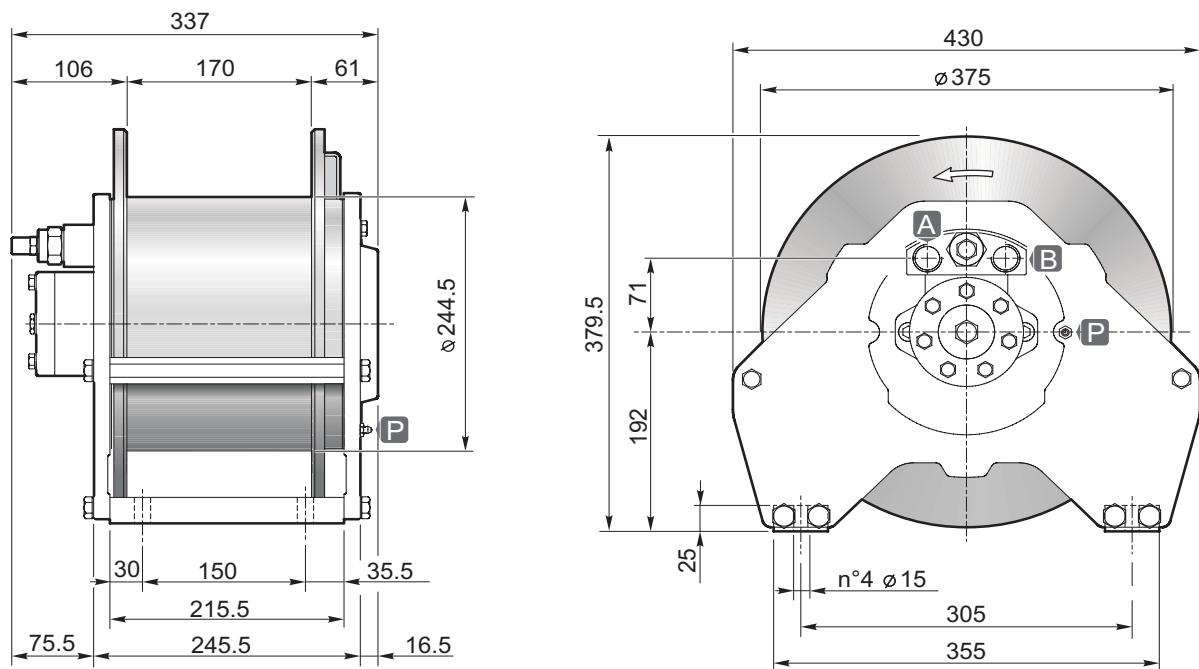
Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 68 daNm.
- Lubrificazione interna a grasso.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M14 classe 8.8.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 68 daNm of static torque.
- Internal lubrication with grease.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M14 8.8 grade.
- Technical features may change with no previous notice from the manufacturer.

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THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

P15/E



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|------------------------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 2500 | 2300 | 2100 | 1950 |
| Velocità fune con Rope speed with | 60 [L/1'] [m/1'] | 24 | 26 | 28 | 30 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 11 | 22 | 34 | 48 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 10 | 21 | 33 | 46 |

| | | |
|--|--------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 175 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 75/30 |
| Cilindrata motore Motor displacement | [cm³] | 315 |
| Rapporto di riduzione Gear ratio | 1: | 5.77 |
| Diametro fune consigliato Advised rope diameter | [mm] | 12 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| P Ingrassatore Grease nipple | 1/8" |
|--|------|

| | |
|-----------------|----|
| Massa Weight | 80 |
|-----------------|----|

| Tamburo/Drum | Smooth | Grooved** |
|--------------|--------|-----------|
| | 1 | 2 |

** Fornibile a richiesta per quantità
Sold by request for quantity

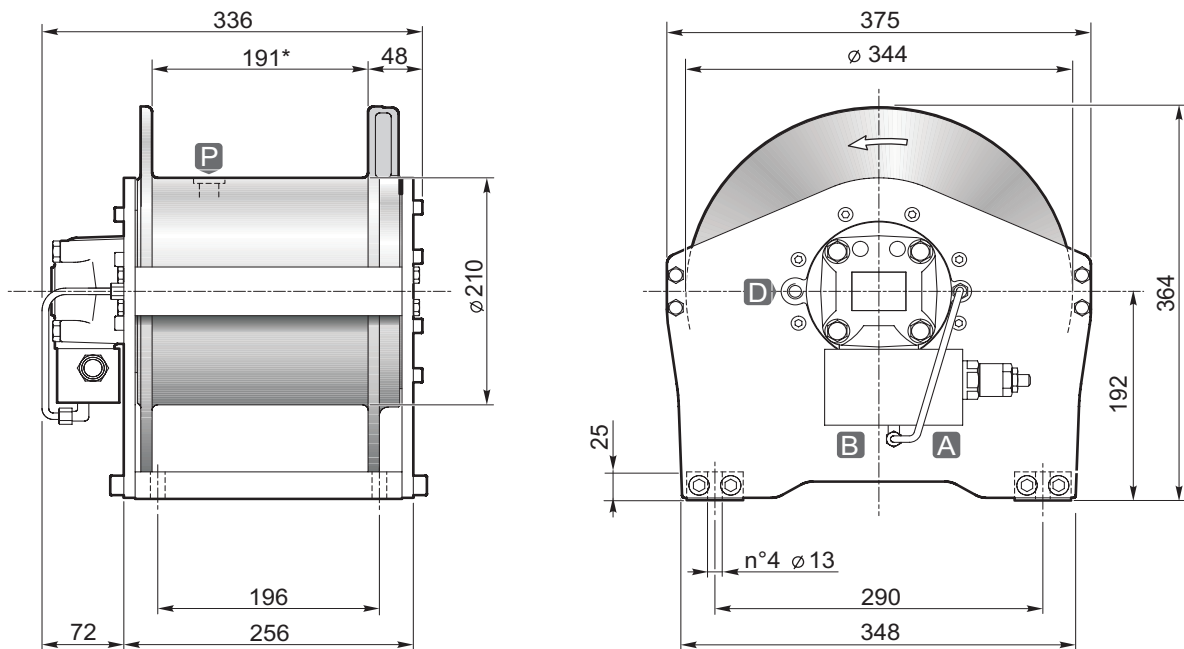


Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 68 daNm.
- Lubrificazione interna a grasso.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M14 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 68 daNm of static torque.
- Internal lubrication with grease.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M14 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

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THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

S15



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 | |
|---|------------|--------|------|------|------|----|
| Tiro diretto Line pull | [daN] | 2000 | 1830 | 1700 | 1570 | |
| Velocità fune con Rope speed with | 45 L/1' | [m/1'] | 31.5 | 34.5 | 37 | 40 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 12 | 26 | 41 | 57 | |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 11 | 24 | 37 | 51 | |

| | | |
|--|--------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 205 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 45/15 |
| Cilindrata motore Motor displacement | [cm³] | 160 |
| Rapporto di riduzione Gear ratio | 1: | 5.77 |
| Diametro fune consigliato Advised rope diameter | [mm] | 10 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| D Ramo di drenaggio Drain port | 1/4" |
| P Tappo olio lubrificazione Lubrication oil plug | 3/8" |

| | |
|-----------------|----|
| Massa Weight | 77 |
|-----------------|----|

*A richiesta è disponibile la versione con tamburo liscio lungo (L=320 mm, quantità fune: 97 m)

*It is available on request the version with longer smooth drum (L=320 mm, rope capacity drum 97 m)

Tamburo/Drum 1 2**

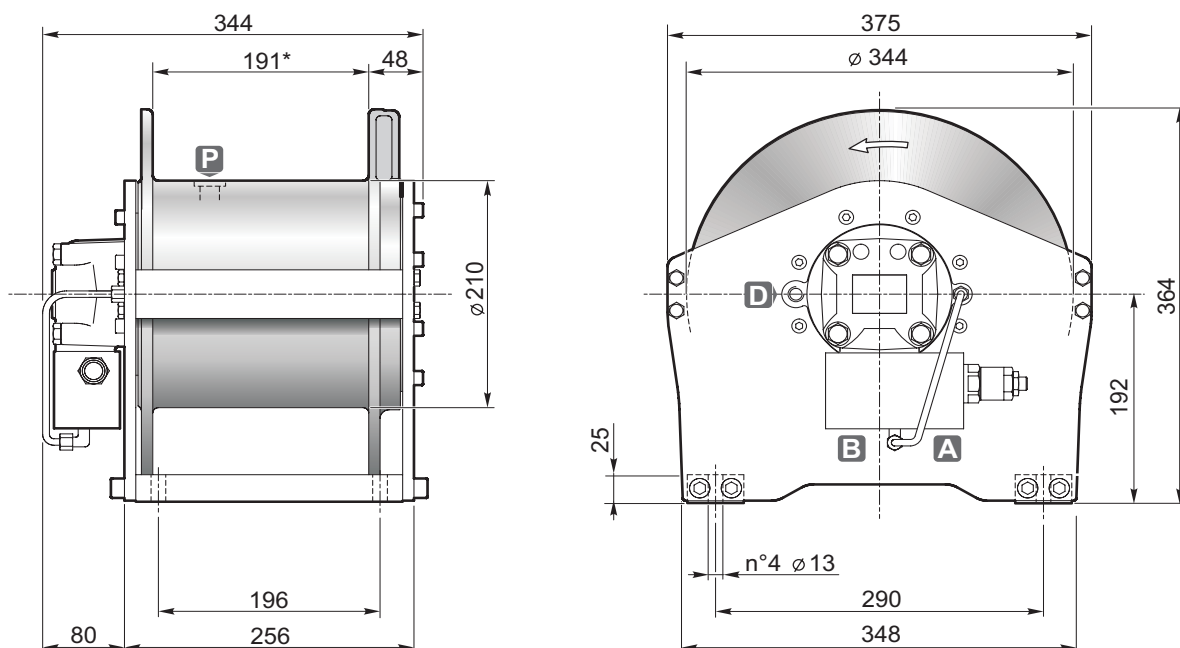


Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 74 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M12 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 74 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M12 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 | |
|---|------------|--------|------|------|------|----|
| Tiro diretto Line pull | [daN] | 2500 | 2250 | 2050 | 1900 | |
| Velocità fune con Rope speed with | 60 L/1' | [m/1'] | 34 | 37 | 41 | 45 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 10 | 22 | 35 | 48 | |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 9 | 20 | 32 | 45 | |

| | | |
|--|--------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 205 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 75/20 |
| Cilindrata motore Motor displacement | [cm³] | 200 |
| Rapporto di riduzione Gear ratio | 1: | 5.77 |
| Diametro fune consigliato Advised rope diameter | [mm] | 12 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| D Ramo di drenaggio Drain port | 1/4" |
| P Tappo olio lubrificazione Lubrication oil plug | 3/8" |

| | |
|-----------------|----|
| Massa Weight | 78 |
|-----------------|----|

*A richiesta è disponibile la versione con tamburo liscio lungo (L=320 mm, quantità fune: 82 m)

*It is available on request the version with longer smooth drum (L=320 mm, rope capacity smooth drum 82 m)

| Tamburo/Drum | Smooth | Grooved** |
|--------------|--------|-----------|
| | 1 | 2 |



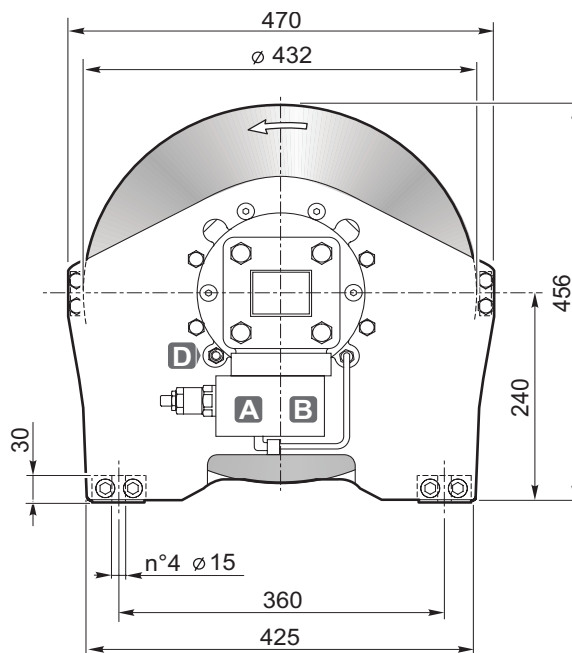
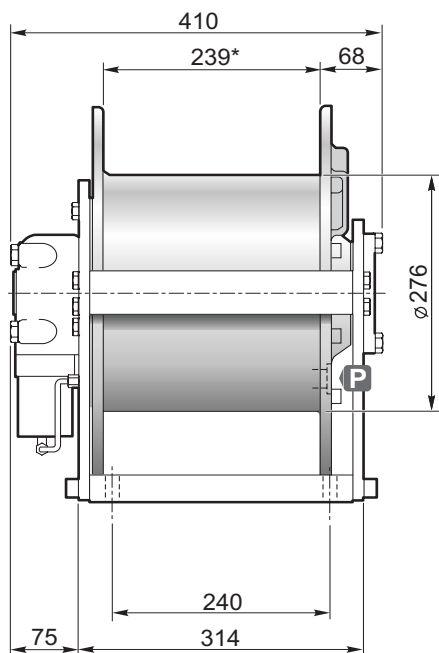
Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 74 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M12 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 74 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M12 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

S20



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 | |
|---|------------|--------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 2500 | 2300 | 2150 | 2000 | |
| Velocità fune con Rope speed with | 60 L/1' | [m/1'] | 38.5 | 42 | 45 | 48.5 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 17 | 35 | 55 | 76 | |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 16 | 33 | 51 | 71 | |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 225 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 100/15 |
| Cilindrata motore Motor displacement | [cm³] | 200 |
| Rapporto di riduzione Gear ratio | 1: | 6.5 |
| Diametro fune consigliato Advised rope diameter | [mm] | 12 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| D Ramo di drenaggio Drain port | 1/4" |
| P Tappo olio lubrificazione Lubrication oil plug | 3/8" |

| | |
|-----------------|-----|
| Massa Weight | 154 |
|-----------------|-----|

*A richiesta è disponibile la versione con tamburo liscio lungo (L=310 mm, quantità fune: 100 m)

*It is available on request the version with longer smooth drum (L=310 mm, rope capacity smooth drum 100 m)

| Tamburo/Drum | Smooth | Grooved** |
|--------------|--------|-----------|
| | 1 | 2 |

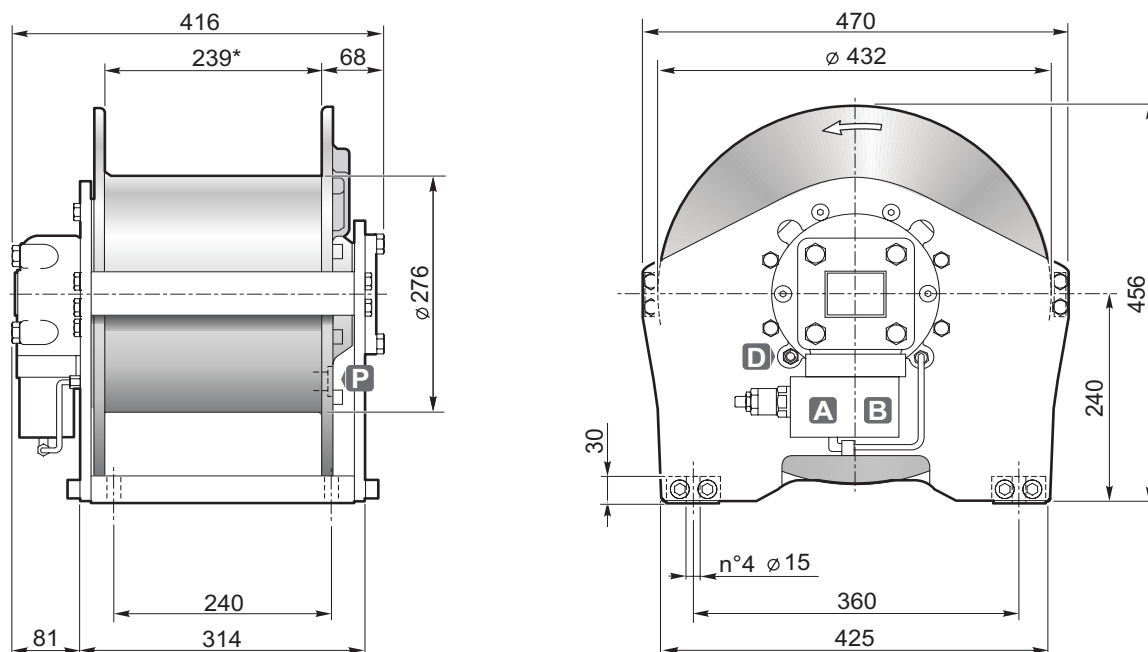


Accessori disponibili / Available accessories **A-B-C1-C2-D-E-F1**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 120 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M14 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 120 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M14 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 | |
|---|------------|--------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 3200 | 2950 | 2700 | 2500 | |
| Velocità fune con Rope speed with | 60 L/1' | [m/1'] | 31 | 34 | 37.5 | 40.5 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 15 | 31 | 48 | 66 | |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 14 | 29 | 45 | 62 | |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 235 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 100/15 |
| Cilindrata motore Motor displacement | [cm³] | 250 |
| Rapporto di riduzione Gear ratio | 1: | 6.5 |
| Diametro fune consigliato Advised rope diameter | [mm] | 14 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| D Ramo di drenaggio Drain port | 1/4" |
| P Tappo olio lubrificazione Lubrication oil plug | 3/8" |

| | |
|-----------------|-----|
| Massa Weight | 154 |
|-----------------|-----|

*A richiesta è disponibile la versione con tamburo liscio lungo (L=310 mm, quantità fune: 87 m)

*It is available on request the version with longer smooth drum (L=310 mm, rope capacity smooth drum 87 m)

| Tamburo/Drum | Smooth | Grooved** |
|--------------|--------|-----------|
| | 1 | 2 |



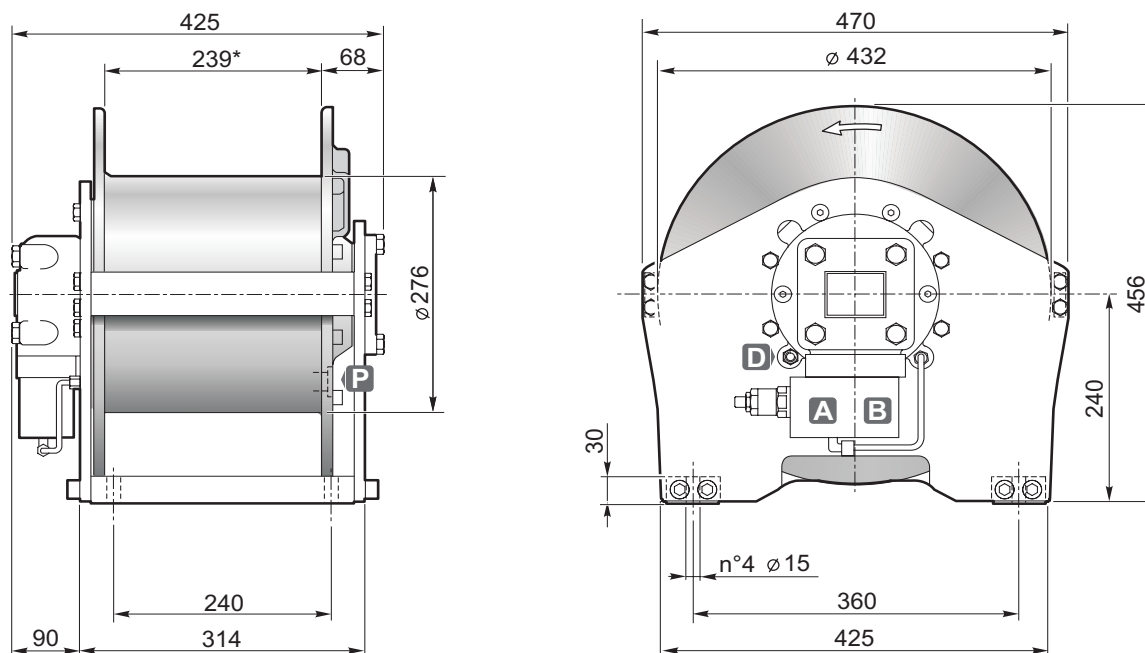
Accessori disponibili / Available accessories **A-B-C1-C2-D-E-F1**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 120 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M14 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 120 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M14 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

S27



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 | |
|---|------------|--------|------|------|------|----|
| Tiro diretto Line pull | [daN] | 3550 | 3250 | 3000 | 2750 | |
| Velocità fune con Rope speed with | 60 L/1' | [m/1'] | 24 | 26 | 28.5 | 31 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 15 | 31 | 48 | 66 | |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 14 | 29 | 45 | 62 | |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 200 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 100/20 |
| Cilindrata motore Motor displacement | [cm³] | 326 |
| Rapporto di riduzione Gear ratio | 1: | 6.5 |
| Diametro fune consigliato Advised rope diameter | [mm] | 14 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| D Ramo di drenaggio Drain port | 1/4" |
| P Tappo olio lubrificazione Lubrication oil plug | 3/8" |

| | |
|-----------------|-----|
| Massa Weight | 155 |
|-----------------|-----|

*A richiesta è disponibile la versione con tamburo liscio lungo (L=310 mm, quantità fune: 87 m)

*It is available on request the version with longer smooth drum (L=310mm, rope capacity smooth drum 87 m)

Tamburo/Drum 1 2



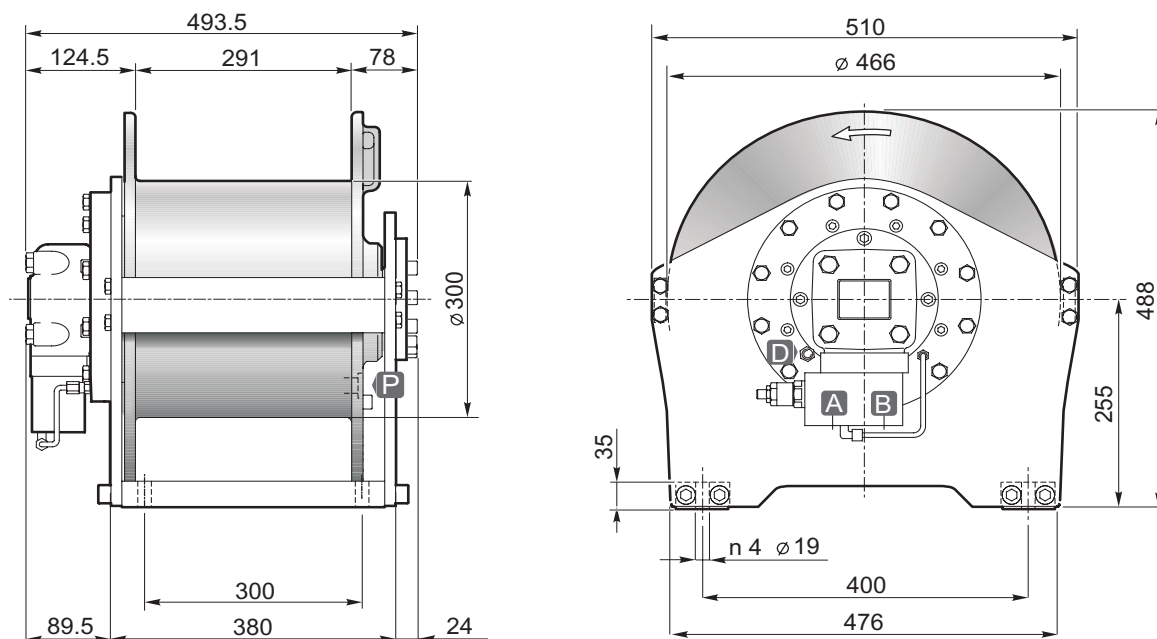
Accessori disponibili / Available accessories **A-B-C1-C2-D-E-F1**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 120 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M14 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 120 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M14 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

S30/2



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|------------------------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 3800 | 3500 | 3200 | 3000 |
| Velocità fune con Rope speed with | 80 [L/1'] [m/1'] | 32 | 34.5 | 37.5 | 40.5 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 19 | 40 | 63 | 88 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 17 | 36 | 57 | 80 |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 215 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 100/15 |
| Cilindrata motore Motor displacement | [cm³] | 200 |
| Rapporto di riduzione Gear ratio | 1: | 11.5 |
| Diametro fune consigliato Advised rope diameter | [mm] | 14 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| D Ramo di drenaggio Drain port | 1/4" |
| P Tappo olio lubrificazione Lubrication oil plug | 3/8" |

| | |
|-----------------|-----|
| Massa Weight | 214 |
|-----------------|-----|

Tamburo/Drum Smooth
1 Grooved
2**



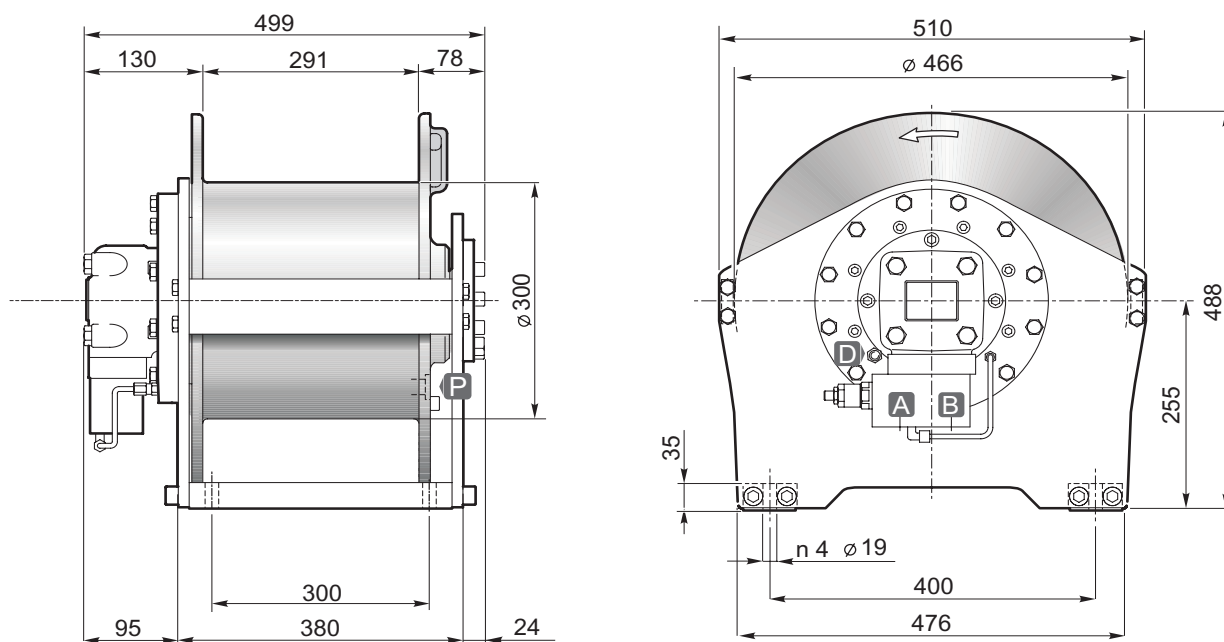
Accessori disponibili / Available accessories **A-B-C1-C2-D-E-F1**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 120 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M18 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 120 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M18 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

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THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

S35/2



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|------------------------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 4500 | 4100 | 3800 | 3500 |
| Velocità fune con Rope speed with | 80 [L/1'] [m/1'] | 26 | 28 | 30.5 | 33 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 18 | 38 | 60 | 83 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 16 | 35 | 54 | 75 |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 210 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 100/15 |
| Cilindrata motore Motor displacement | [cm³] | 250 |
| Rapporto di riduzione Gear ratio | 1: | 11.5 |
| Diametro fune consigliato Advised rope diameter | [mm] | 15 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| D Ramo di drenaggio Drain port | 1/4" |
| P Tappo olio lubrificazione Lubrication oil plug | 3/8" |

| | |
|-----------------|-----|
| Massa Weight | 214 |
|-----------------|-----|

Tamburo/Drum Smooth
1 Grooved**
2



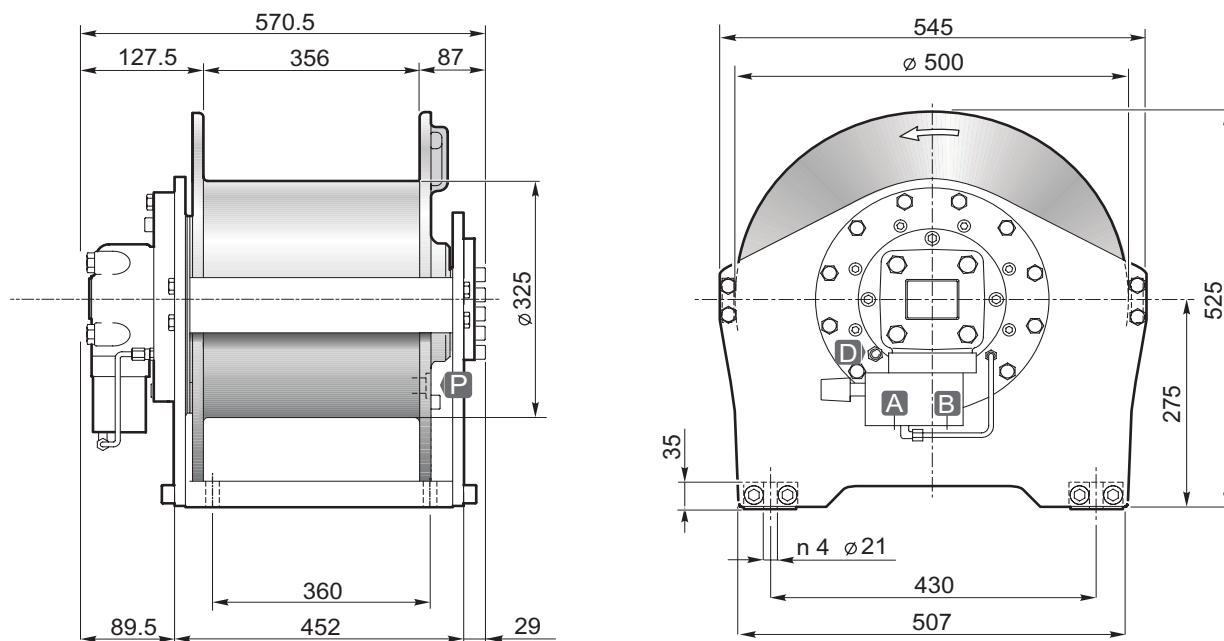
Accessori disponibili / Available accessories **A-B-C1-C2-D-E-F1**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 120 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M18 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 120 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M18 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

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THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

S45/2



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|----------------------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 5750 | 5250 | 4850 | 4500 |
| Velocità fune con Rope speed with | 100 [L/1'] [m/1'] | 27.5 | 30 | 33 | 35 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 23 | 47 | 74 | 103 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 21 | 43 | 68 | 94 |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 230 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 100/15 |
| Cilindrata motore Motor displacement | [cm³] | 200 |
| Rapporto di riduzione Gear ratio | 1: | 18 |
| Diametro fune consigliato Advised rope diameter | [mm] | 16 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 3/4" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| D Ramo di drenaggio Drain port | 1/4" |
| P Tappo olio lubrificazione Lubrication oil plug | 1/2" |

| | |
|-----------------|-----|
| Massa Weight | 260 |
|-----------------|-----|

Tamburo/Drum 1 2**



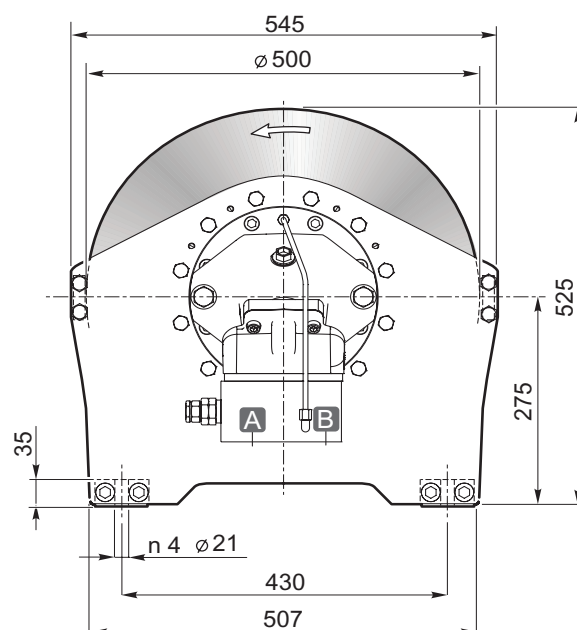
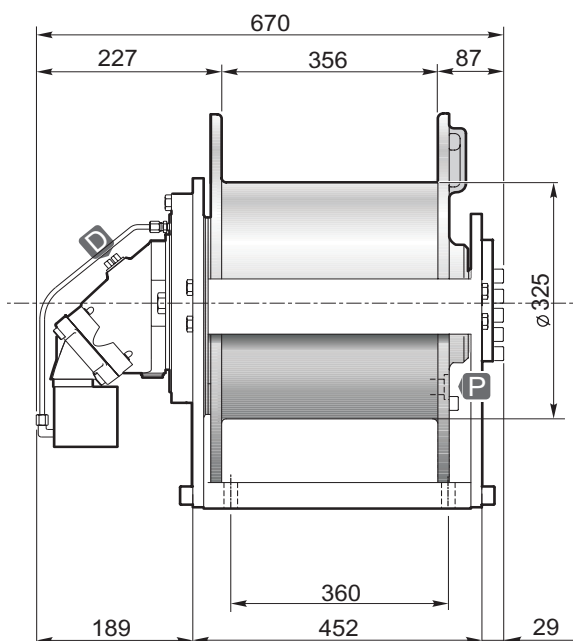
Accessori disponibili / Available accessories **A-B-C1-C2-D-F1**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 120 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M20 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 120 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M20 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

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THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

S45V/2



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|----------------------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 5750 | 5250 | 4850 | 4500 |
| Velocità fune con Rope speed with | 160 [L/1'] [m/1'] | 48 | 53 | 58 | 63 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 23 | 47 | 74 | 103 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 21 | 43 | 68 | 94 |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 255 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 190/25 |
| Cilindrata motore Motor displacement | [cm³] | 64 |
| Rapporto di riduzione Gear ratio | 1: | 51.7 |
| Diametro fune consigliato Advised rope diameter | [mm] | 16 |

| | |
|--|----|
| A Ramo di sollevamento Hoisting port | 1" |
| B Ramo di discesa Lowering port | |

| | |
|--|------|
| D Ramo di drenaggio Drain port | 1/2" |
| P Tappo olio lubrificazione Lubrication oil plug | 1/2" |

| | |
|---|-----|
|  Massa Weight | 285 |
|---|-----|

Tamburo/Drum Smooth 1 Grooved 2**



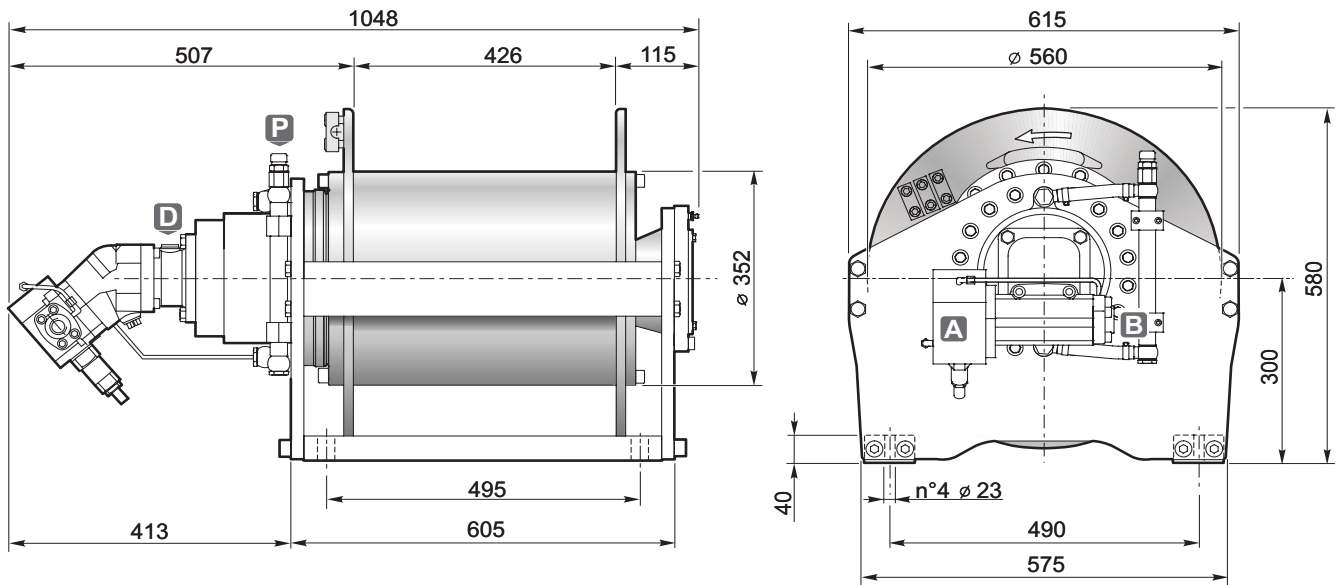
Accessori disponibili / Available accessories **A-B-C1-C2-D-F1**

** Fornibile a richiesta per quantità
Sold by request for quantity

- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 44 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M20 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 44 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M20 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

SRD A60



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|-------------------------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 8000 | 7300 | 6700 | 6200 |
| Velocità fune con Rope speed with | 180 [L/1'] [m/1'] | 42 | 46 | 50 | 54 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 26 | 55 | 87 | 121 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 24 | 52 | 83 | 116 |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 265 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 220/30 |
| Cilindrata motore Motor displacement | [cm³] | 63.5 |
| Rapporto di riduzione Gear ratio | 1: | 74.03 |
| Diametro fune consigliato Advised rope diameter | [mm] | 18 |

| | |
|--|------|
| A Ramo di sollevamento Hoisting port | 1" |
| B Ramo di discesa Lowering port | 3/4" |

| | |
|--|---------|
| D Ramo di drenaggio Drain port | 1/2" |
| P Tappo olio lubrificazione Lubrication oil plug | M18x1.5 |

| | |
|-----------------|-----|
| Massa Weight | 473 |
|-----------------|-----|



Accessori disponibili / Available accessories **A-B-C1-C2-F1-F2**

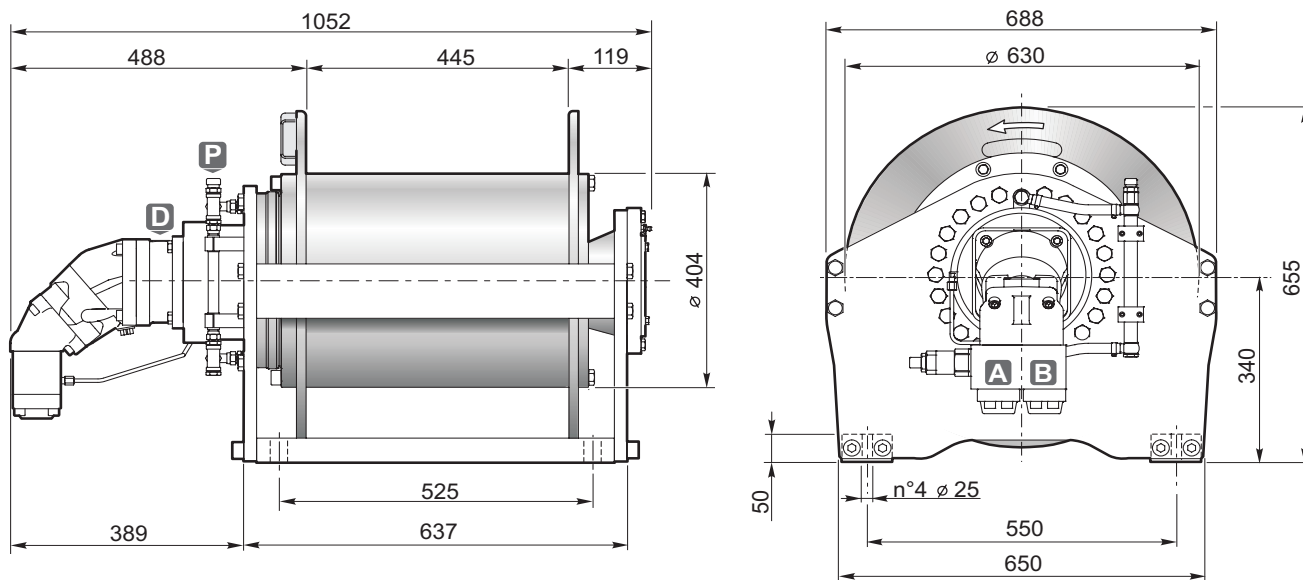
Tamburo/Drum



- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 80 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'organo utilizzare viti M22 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 80 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M22 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

SRD B80



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|----------------------|-------|------|------|------|
| Tiro diretto Line pull | [daN] | 10300 | 9400 | 8600 | 8000 |
| Velocità fune con Rope speed with | 180 [L/1'] [m/1'] | 35 | 38 | 42 | 45 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 28 | 59 | 93 | 129 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 26 | 56 | 88 | 123 |

| | | |
|--|--------------------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 285 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 220/30 |
| Cilindrata motore Motor displacement | [cm ³] | 84 |
| Rapporto di riduzione Gear ratio | 1: | 76.73 |
| Diametro fune consigliato Advised rope diameter | [mm] | 20 |

| | |
|--|----|
| A Ramo di sollevamento Hoisting port | 1" |
| B Ramo di discesa Lowering port | |

| | |
|--|---------|
| D Ramo di drenaggio Drain port | 1/2" |
| P Tappo olio lubrificazione Lubrication oil plug | M18x1.5 |

| | |
|-----------------|-----|
| Massa Weight | 605 |
|-----------------|-----|



Accessori disponibili / Available accessories **A-B-C1-C2-F1-F2**

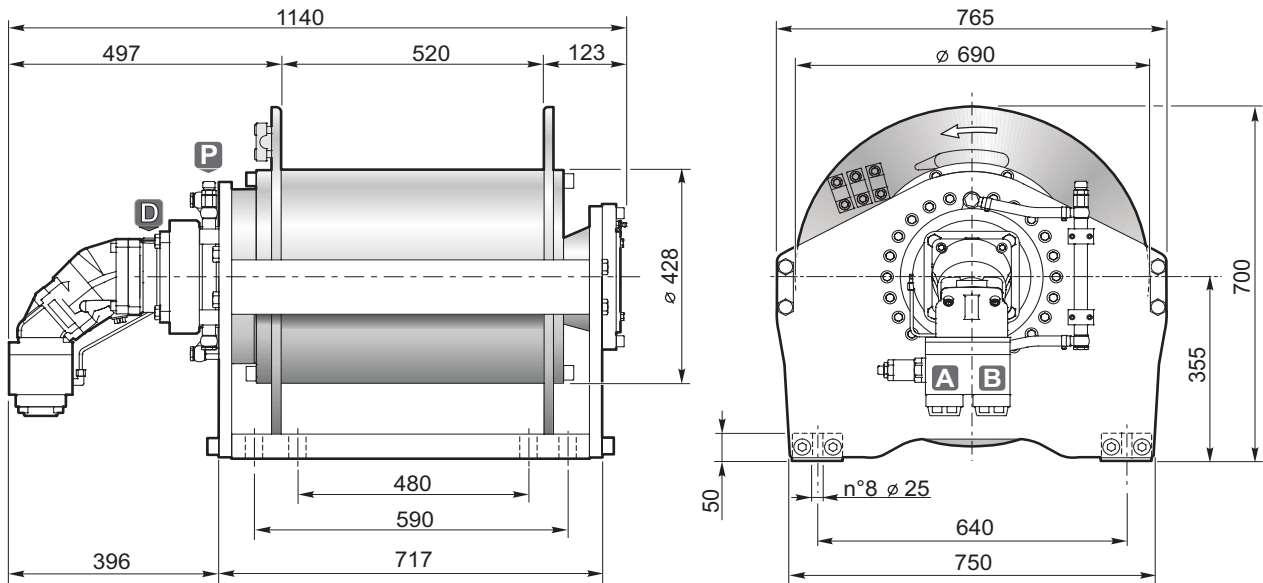
Tamburo/Drum



- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 80 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M24 classe 12.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 80 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M24 12.9 grade.
- Technical features may change with no previous notice from the manufacturer.

**IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE**

SRD C100



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|----------------------|-------|-------|-------|-------|
| Tiro diretto Line pull | [daN] | 13000 | 11800 | 10800 | 10000 |
| Velocità fune con Rope speed with | 220 [L/1'] [m/1'] | 32 | 36 | 39 | 42 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 32 | 67 | 105 | 147 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | [m] | 30 | 63 | 100 | 140 |

| | | |
|--|--------------------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 275 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 260/30 |
| Cilindrata motore Motor displacement | [cm ³] | 108 |
| Rapporto di riduzione Gear ratio | 1: | 83.92 |
| Diametro fune consigliato Advised rope diameter | [mm] | 22 |

| | |
|--|----|
| A Ramo di sollevamento Hoisting port | 1" |
| B Ramo di discesa Lowering port | |

| | |
|--|---------|
| D Ramo di drenaggio Drain port | 1/2" |
| P Tappo olio lubrificazione Lubrication oil plug | M18x1.5 |

| | |
|-----------------|-----|
| Massa Weight | 722 |
|-----------------|-----|



Accessori disponibili / Available accessories **A-B-C1-C2-F1-F2**

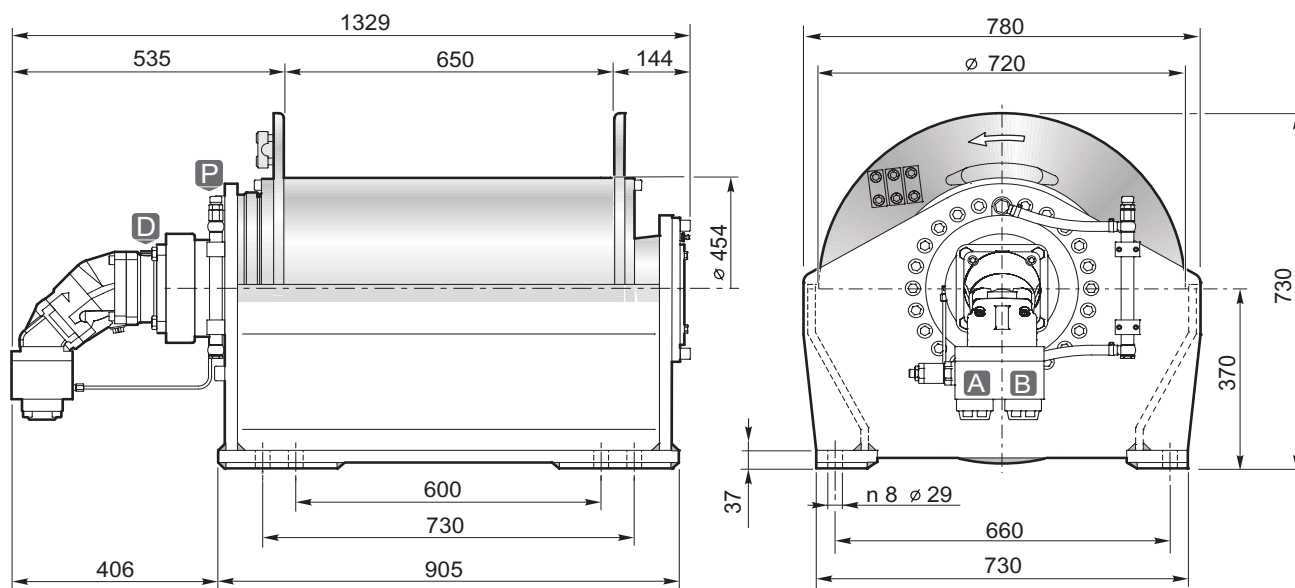
Tamburo/Drum



- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 80 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M24 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 80 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M24 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
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SRD D120



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|----------------------|-------|-------|-------|-------|
| Tiro diretto Line pull | [daN] | 15600 | 14200 | 13000 | 12000 |
| Velocità fune con Rope speed with | 230 [L/1'] [m/1'] | 29.5 | 32.5 | 35 | 38 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 39 | 82 | 129 | 180 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 35 | 77 | 123 | 173 |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 285 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 250/30 |
| Cilindrata motore Motor displacement | [cm³] | 108 |
| Rapporto di riduzione Gear ratio | 1: | 102.02 |
| Diametro fune consigliato Advised rope diameter | [mm] | 24 |

| | |
|--|----|
| A Ramo di sollevamento Hoisting port | 1" |
| B Ramo di discesa Lowering port | |

| | |
|--|---------|
| D Ramo di drenaggio Drain port | 1/2" |
| P Tappo olio lubrificazione Lubrication oil plug | M18x1.5 |

| | |
|-----------------|-----|
| Massa Weight | 762 |
|-----------------|-----|



Accessori disponibili / Available accessories **A-B-C1-C2-F1-F2**

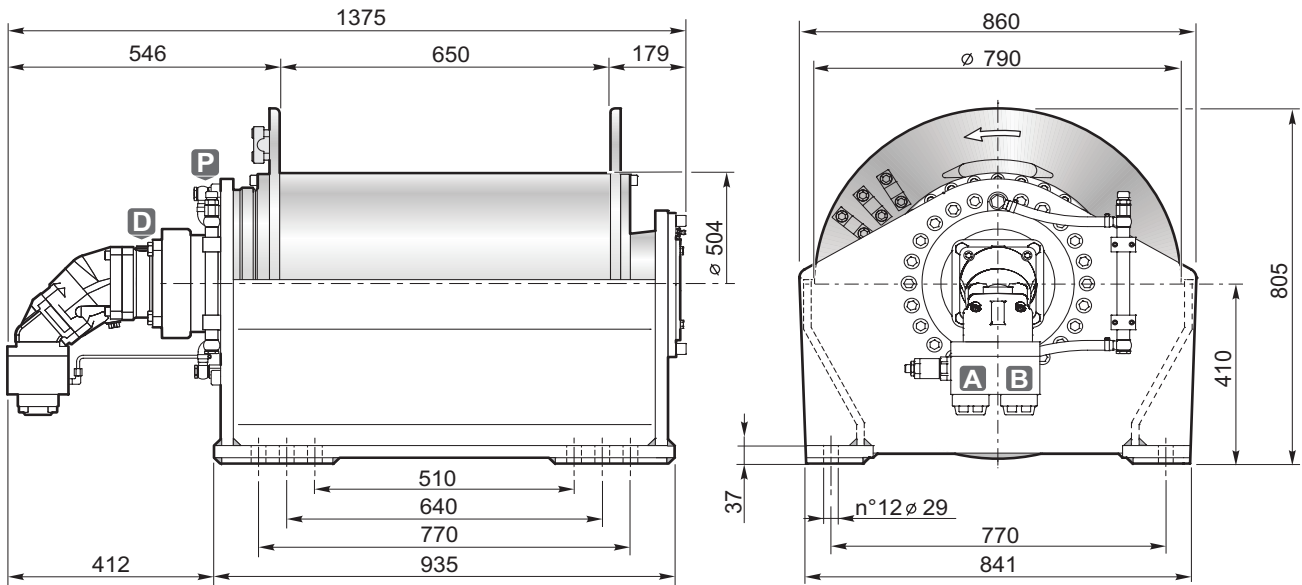
Tamburo/Drum



- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 80 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M27 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 80 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M27 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
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SRD E150



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|----------------------|-------|-------|-------|-------|
| Tiro diretto Line pull | [daN] | 19400 | 17650 | 16200 | 15000 |
| Velocità fune con Rope speed with | 250 [L/1'] [m/1'] | 25.5 | 28 | 30.5 | 33 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 40 | 84 | 132 | 183 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 36 | 79 | 126 | 176 |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 290 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 250/30 |
| Cilindrata motore Motor displacement | [cm³] | 130 |
| Rapporto di riduzione Gear ratio | 1: | 117.8 |
| Diametro fune consigliato Advised rope diameter | [mm] | 26 |

| | |
|--|----|
| A Ramo di sollevamento Hoisting port | 1" |
| B Ramo di discesa Lowering port | |

| | |
|--|---------|
| D Ramo di drenaggio Drain port | 1/2" |
| P Tappo olio lubrificazione Lubrication oil plug | M18x1.5 |

| | |
|-----------------|-----|
| Massa Weight | 762 |
|-----------------|-----|



Accessori disponibili / Available accessories **A-B-C1-C2-F1-F2**

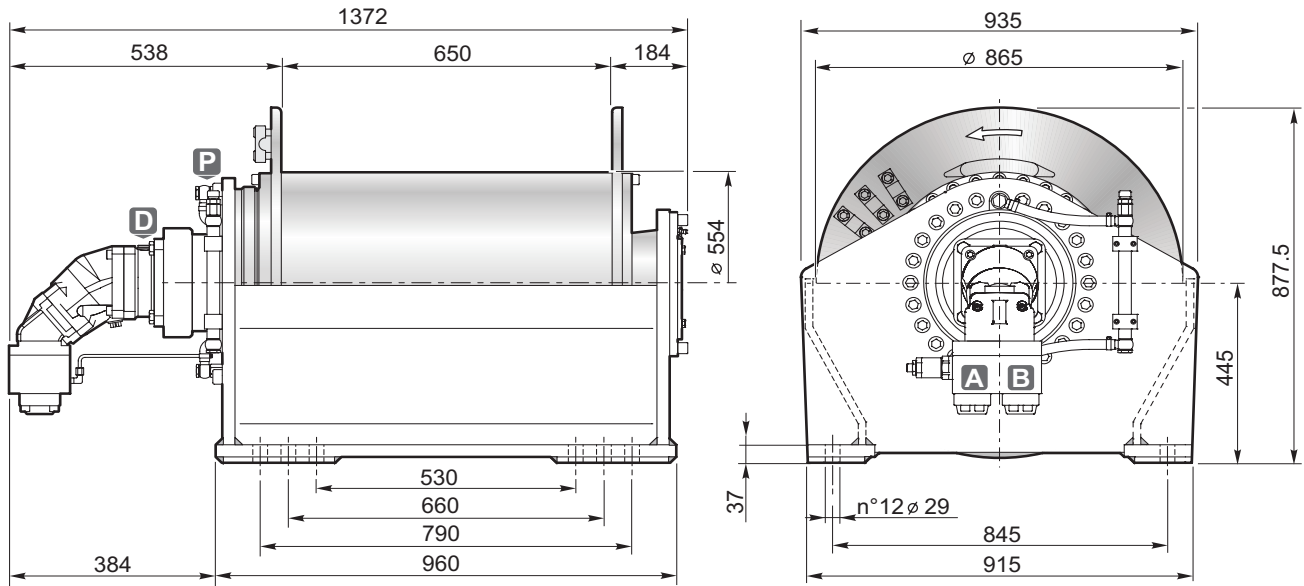
Tamburo/Drum



- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 120 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M27 classe 10.9.
- Questo argano è disponibile su richiesta.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 120 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M27 10.9 grade.
- This winch is available on request.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
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SRD F180



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|----------------------|-------|-------|-------|-------|
| Tiro diretto Line pull | [daN] | 23200 | 21150 | 19450 | 18000 |
| Velocità fune con Rope speed with | 250 [L/1'] [m/1'] | 22 | 24 | 26 | 28 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 40 | 85 | 133 | 186 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 37 | 80.5 | 128 | 179 |

| | | |
|--|--------------------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 295 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 250/30 |
| Cilindrata motore Motor displacement | [cm ³] | 130 |
| Rapporto di riduzione Gear ratio | 1: | 150.2 |
| Diametro fune consigliato Advised rope diameter | [mm] | 28 |

| | |
|--|----|
| A Ramo di sollevamento Hoisting port | 1" |
| B Ramo di discesa Lowering port | |

| | |
|--|---------|
| D Ramo di drenaggio Drain port | 1/2" |
| P Tappo olio lubrificazione Lubrication oil plug | M18x1.5 |

| | |
|---|-----|
|  Massa Weight | 795 |
|---|-----|



Accessori disponibili / Available accessories **A-B-C1-C2-F1-F2**

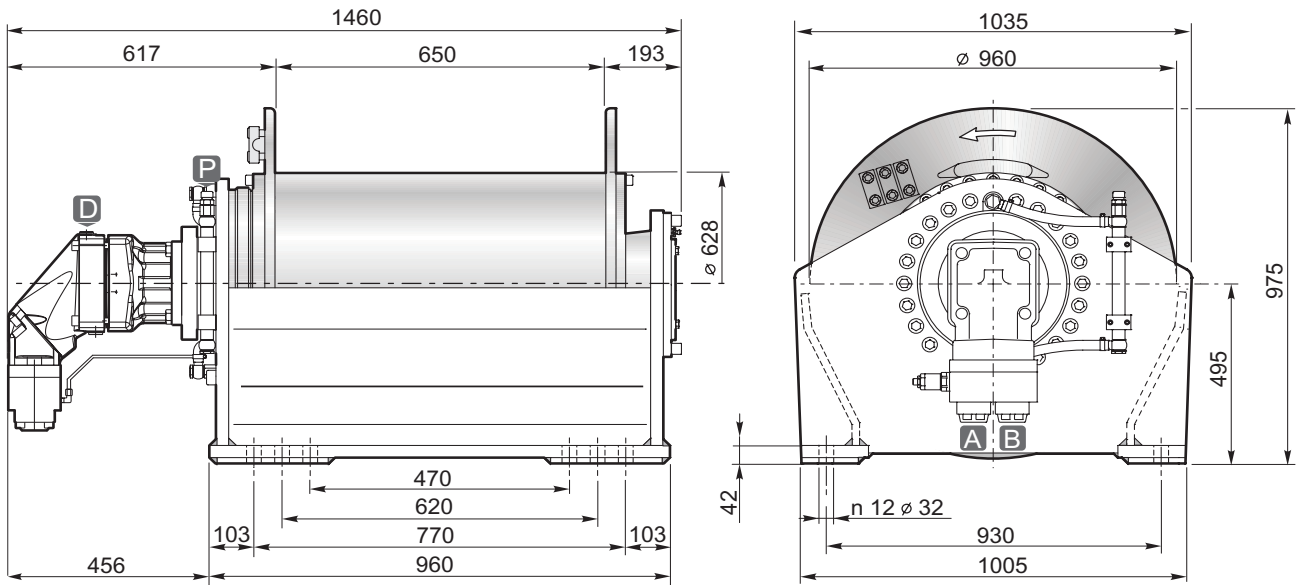
Tamburo/Drum



- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 120 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'argano utilizzare viti M27 classe 10.9.
- Questo argano è disponibile su richiesta.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 120 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M27 10.9 grade.
- This winch is available on request.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

SRD G230




| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|----------------------|-------|-------|-------|-------|
| Tiro diretto Line pull | [daN] | 29300 | 26850 | 24750 | 23000 |
| Velocità fune con Rope speed with | 250 [L/1'] [m/1'] | 16.5 | 18 | 19.5 | 21 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 42.5 | 89 | 140 | 194 |
| Q.tà fune tamburo filettato Rope capacity grooved drum | | 38.5 | 84 | 133 | 186 |

| | | |
|--|--------|--------|
| Pressione di sollevamento Hoisting pressure | [bar] | 290 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 250/30 |
| Cilindrata motore Motor displacement | [cm³] | 242 |
| Rapporto di riduzione Gear ratio | 1: | 120.13 |
| Diametro fune consigliato Advised rope diameter | [mm] | 30 |

| | |
|--|--------|
| A Ramo di sollevamento Hoisting port | 1" 1/2 |
| B Ramo di discesa Lowering port | |

| | |
|--|---------|
| D Ramo di drenaggio Drain port | 3/4" |
| P Tappo olio lubrificazione Lubrication oil plug | M18x1.5 |

| | |
|---|-----|
|  Massa Weight | 865 |
|---|-----|



Accessori disponibili / Available accessories **A-B-C1-C2-F1-F2**

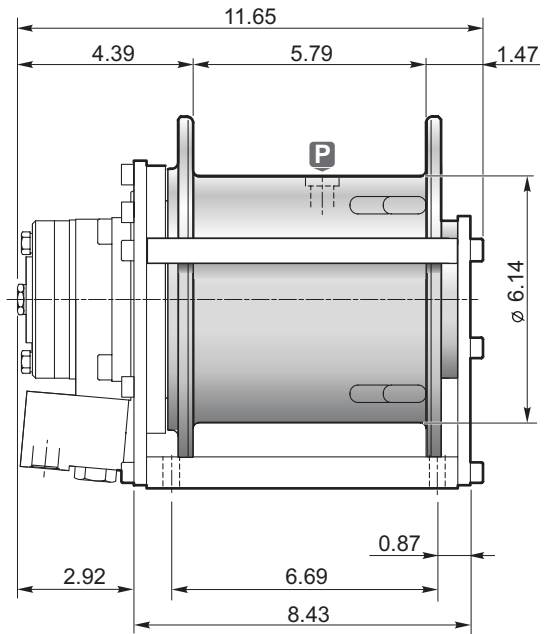
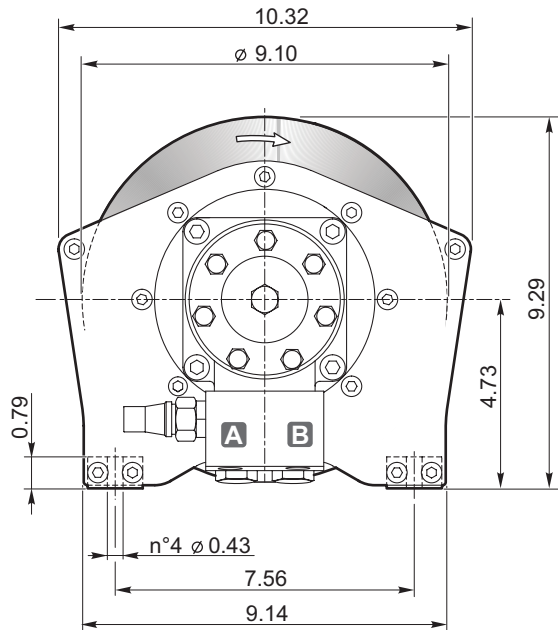
Tamburo/Drum



- Sollevamento con rotazione del tamburo antioraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 160 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- L'apparecchio è classificato secondo le UNI ISO 4301/1.
- Per fissare l'organo utilizzare viti M30 classe 10.9.
- Questo organo è disponibile su richiesta.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with counter clockwise rotation of the drum (or clockwise if required).
- Negative multi-disc brake, with 160 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- The equipment is classified under UNI ISO 4301/1.
- To fix the winch use screws M30 10.9 grade.
- This winch is available on request.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

A11



Performance info: 5.23:1 ratio - 3.05 cu.in. disp. - 2250 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5 |
|----------------------|-------|------|------|-----|-----|-----|
| Line pull | [lbs] | 1100 | 1000 | 950 | 890 | 840 |
| Line speed @ 7.7 GPM | [fpm] | 164 | 176 | 189 | 200 | 214 |

Above specifications based on 1/4" wire rope diameter

| | | |
|----------|---------------|-----------------|
| A | Hoisting port | 9/16" 18-UNF |
| B | Lowering port | |

| | | |
|----------|----------------------|-------------|
| P | Lubrication oil plug | 3/8" BSP |
|----------|----------------------|-------------|

| | |
|--|----|
|  Weight | 75 |
|--|----|

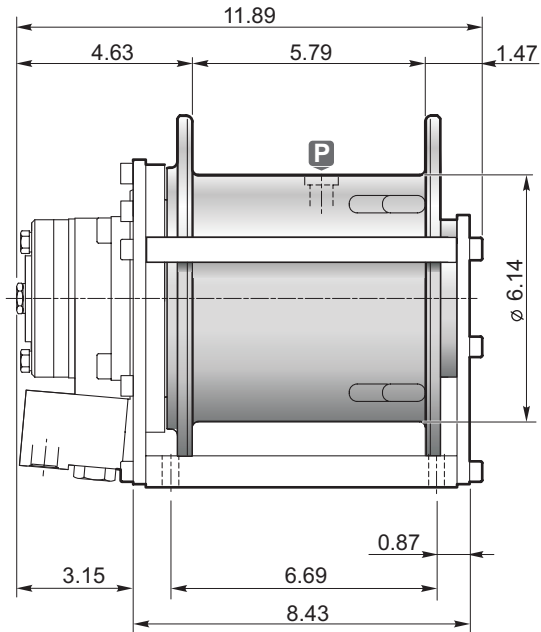
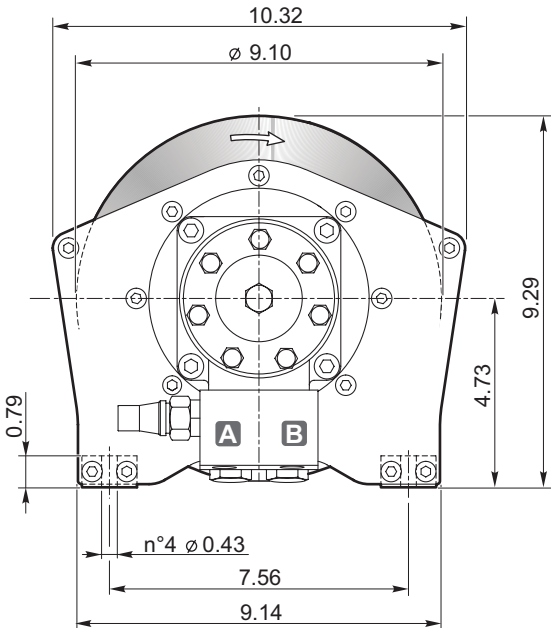
| Rope Dia. [in] | Rope storage capacity [FT] | | | | |
|-------------------|----------------------------|----|-----|------|------|
| | Layer | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 1/4" | 37 | 77 | 120 | 165 | 214* |
| 5/16" | 30 | 62 | 97 | 135* | — |

| | |
|------------|------|
| D/d | |
| | 25.5 |
| | 20.6 |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is clockwise (counterclockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 310 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.20 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



Performance info: 5.23:1 ratio - 4.88 cu.in. disp. - 2300 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5 |
|----------------------|-------|------|------|------|------|------|
| Line pull | [lbs] | 1800 | 1650 | 1550 | 1450 | 1350 |
| Line speed @ 7.7 GPM | [fpm] | 102 | 110 | 118 | 125 | 132 |

Above specifications based on 1/4" wire rope diameter

| | | |
|----------|---------------|-----------------|
| A | Hoisting port | 9/16" 18-UNF |
| B | Lowering port | |

| | | |
|----------|----------------------|-------------|
| P | Lubrication oil plug | 3/8" BSP |
|----------|----------------------|-------------|

| | |
|--|----|
|  Weight | 75 |
|--|----|

| Rope Dia. [in] | Rope storage capacity [FT] | | | | |
|-------------------|----------------------------|----|-----|------|------|
| | Layer | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 1/4" | 37 | 77 | 120 | 165 | 214* |
| 5/16" | 30 | 62 | 97 | 135* | — |

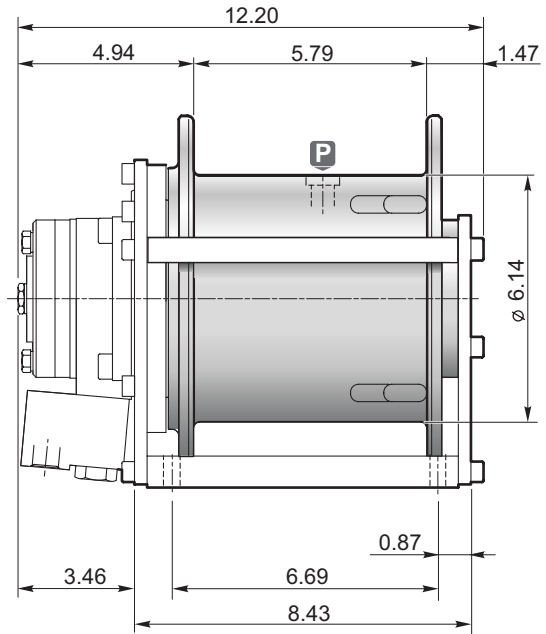
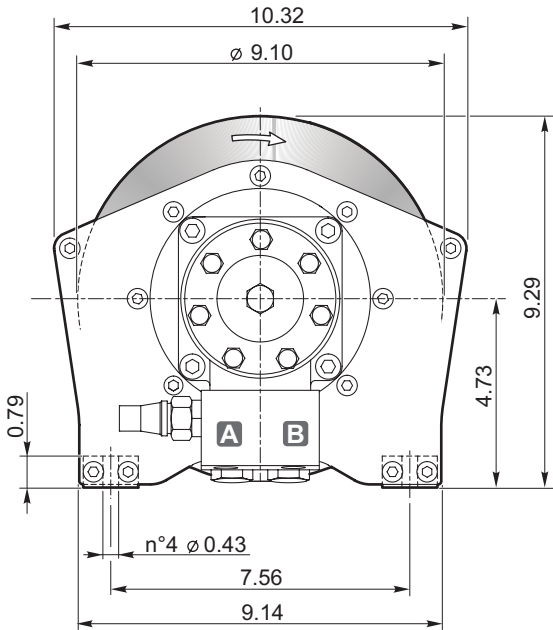
| | |
|------------|------|
| D/d | |
| | 25.5 |
| | 20.6 |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is clockwise (counterclockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 310 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.20 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

A24



Performance info: 5.23:1 ratio - 6.10 cu.in. disp. - 2450 PSI

| Layer | n | 1 | 2 | 3 | 4 |
|----------------------|-------|------|------|------|------|
| Line pull | [lbs] | 2400 | 2190 | 2000 | 1860 |
| Line speed @ 7.7 GPM | [fpm] | 82 | 90 | 98 | 106 |

Above specifications based on 5/16" wire rope diameter

| | | |
|----------|---------------|-----------------|
| A | Hoisting port | 9/16" 18-UNF |
| B | Lowering port | |

| | | |
|----------|----------------------|-------------|
| P | Lubrication oil plug | 3/8" BSP |
|----------|----------------------|-------------|

| | |
|--|----|
|  Weight | 75 |
|--|----|

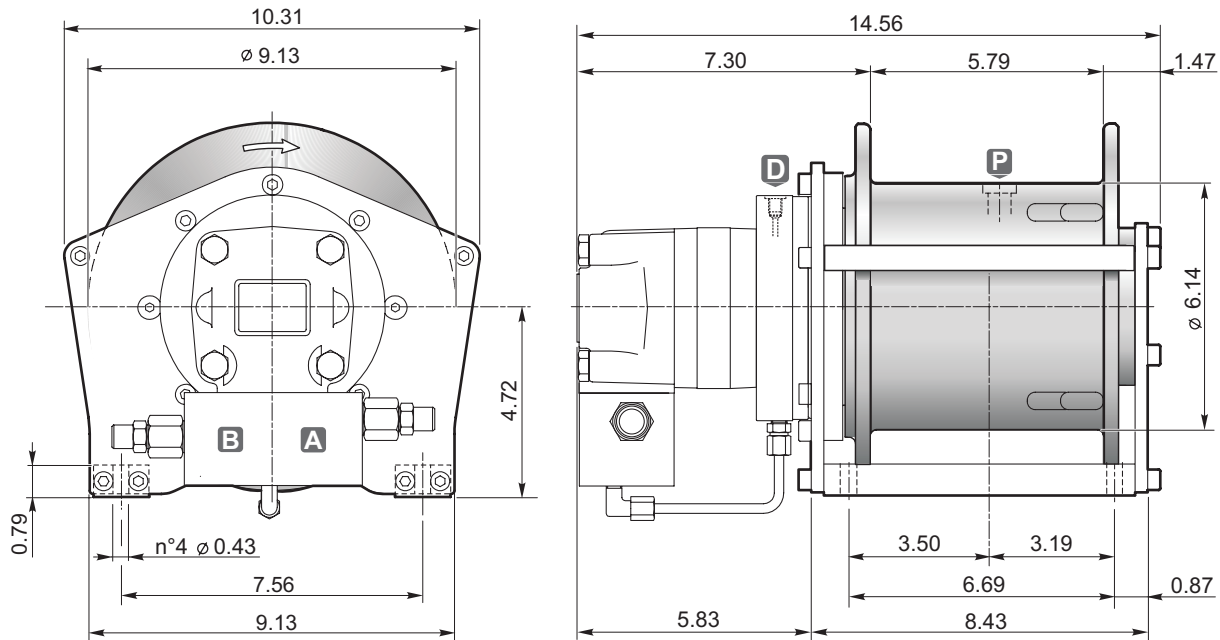
| Rope Dia. [in] | Rope storage capacity [FT] | | | |
|-------------------|----------------------------|----|-----|------|
| | Layer | | | |
| | 1 | 2 | 3 | 4 |
| 5/16" | 30 | 62 | 97 | 135* |
| 3/8" | 25 | 52 | 82* | — |

| D/d |
|------|
| 20.5 |
| 17.4 |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is clockwise (counterclockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 310 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.20 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



Performance info: 5.23:1 ratio - 7.63 cu.in. disp. - 2250 PSI

| Layer | n | 1 | 2 | 3 | 4 |
|---------------------|-------|------|------|------|------|
| Line pull | [lbs] | 3000 | 2730 | 2500 | 2320 |
| Line speed @ 15 GPM | [fpm] | 140 | 153 | 167 | 180 |

Above specifications based on 5/16" wire rope diameter

| | | |
|----------|---------------|--------|
| A | Hoisting port | 7/8" |
| B | Lowering port | 14-UNF |

| | | |
|----------|----------------------|----------|
| D | Motor case drain | 1/4" BSP |
| P | Lubrication oil plug | 3/8" BSP |

| | | |
|---|--------|-----|
|  lbs | Weight | 100 |
|---|--------|-----|

| Rope Dia. [in] | Rope storage capacity [FT] | | | |
|----------------|----------------------------|----|-----|------|
| | Layer | | | |
| | 1 | 2 | 3 | 4 |
| 5/16" | 30 | 62 | 97 | 135* |
| 3/8" | 25 | 52 | 82* | — |

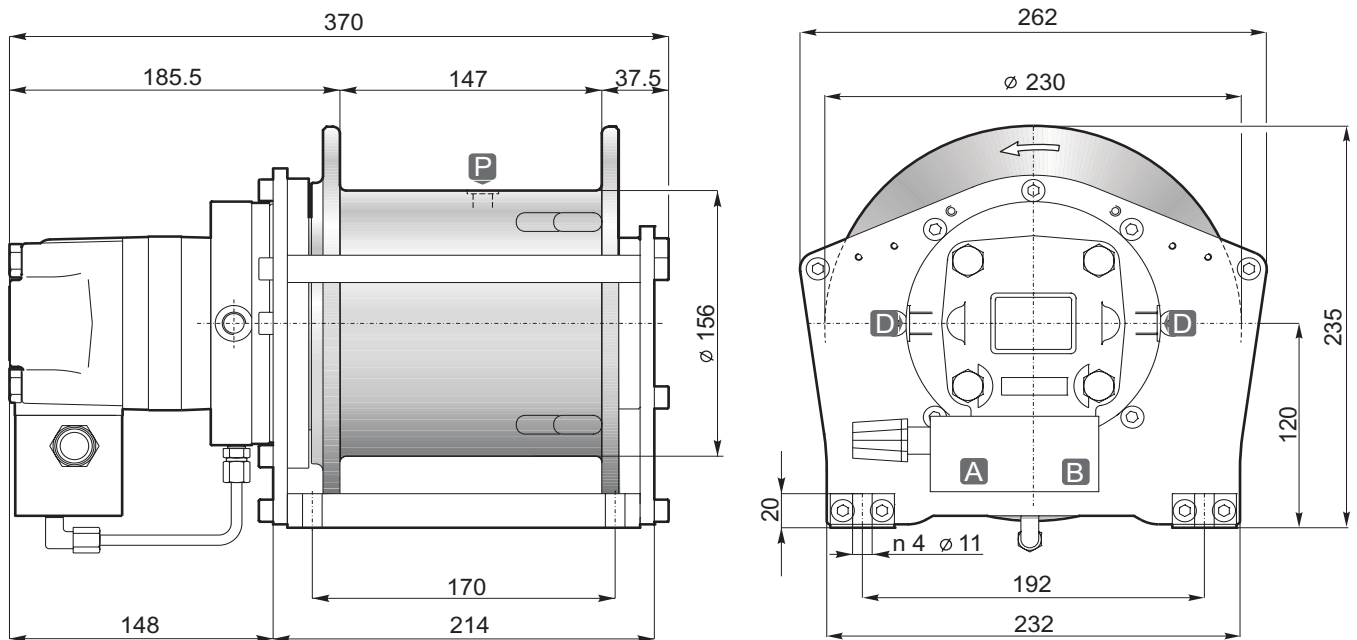
| D/d | |
|------|--|
| 20.5 | |
| 17.4 | |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is clockwise (counterclockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 310 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.20 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

A30



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|---------------------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 1360 | 1200 | 1100 | 1000 |
| Velocità fune con Rope speed with | 57 [m/1'] [L/1'] | 42 | 46 | 50 | 54 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 11 | 23 | 36 | 51 |

| | | |
|--|--------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 155 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 76/20 |
| Cilindrata motore Motor displacement | [cm³] | 125 |
| Rapporto di riduzione Gear ratio | 1: | 5.23 |
| Diametro fune consigliato Advised rope diameter | [mm] | 8 |

| | |
|--|-------------------|
| A Ramo di sollevamento Hoisting port | 7/8" 14 UNF |
| B Ramo di discesa Lowering port | UNF |

| | |
|--|-------------|
| D Ramo di drenaggio Drain port | 1/4" BSP |
| P Tappo olio lubrificazione Lubrication oil plug | 3/8" BSP |

| | |
|---------------------------|-------|
| kg Massa Weight | 36 kg |
|---------------------------|-------|



Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

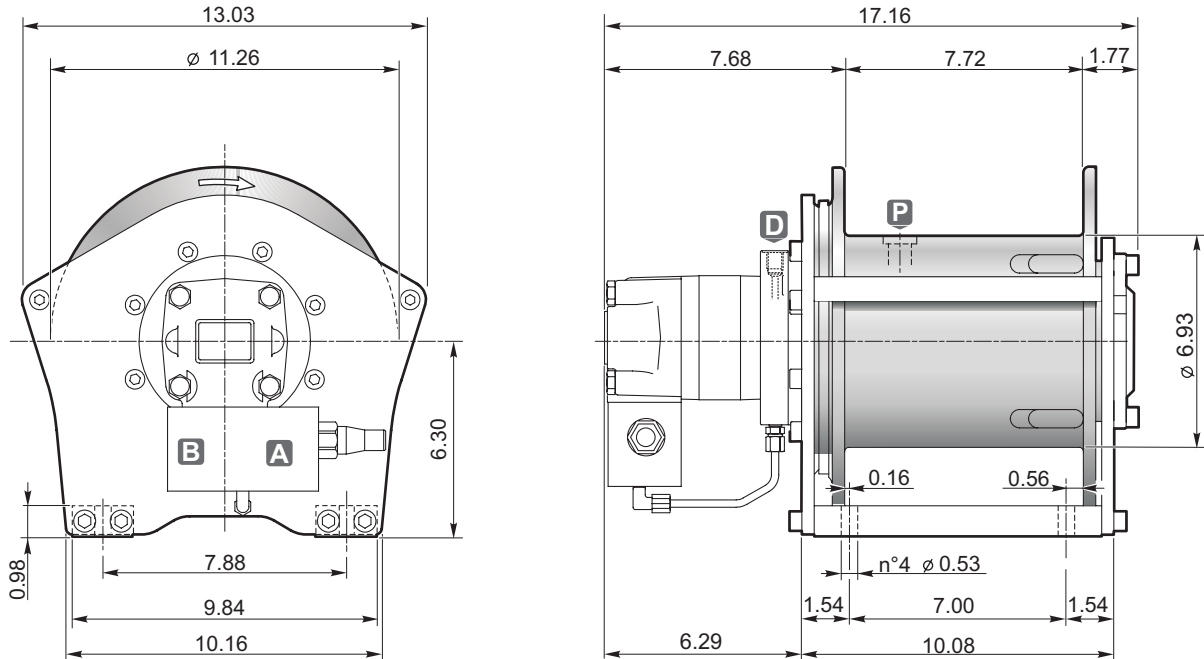
Tamburo/Drum



- Sollevamento con rotazione del tamburo oraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 42 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- Per fissare l'argano utilizzare viti M10 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with clockwise rotation of the drum (or counter-clockwise if required).
- Negative multi-disc brake, with 42 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- To fix the winch use screws M10 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

A44



Performance info: 4.77:1 ratio - 12.2 cu.in. disp. - 2450 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5* |
|---------------------|-------|------|------|------|------|------|
| Line pull | [lbs] | 4400 | 4000 | 3650 | 3350 | 3100 |
| Line speed @ 20 GPM | [fpm] | 141 | 155 | 170 | 184 | 200 |

Above specifications based on 3/8" wire rope diameter

| | | |
|----------|---------------|----------------|
| A | Hoisting port | 7/8" 14-UNF |
| B | Lowering port | |

| | | |
|----------|----------------------|-------------|
| D | Motor case drain | 1/4" BSP |
| P | Lubrication oil plug | 3/8" BSP |

| | |
|--|-----|
|  Weight | 110 |
|--|-----|

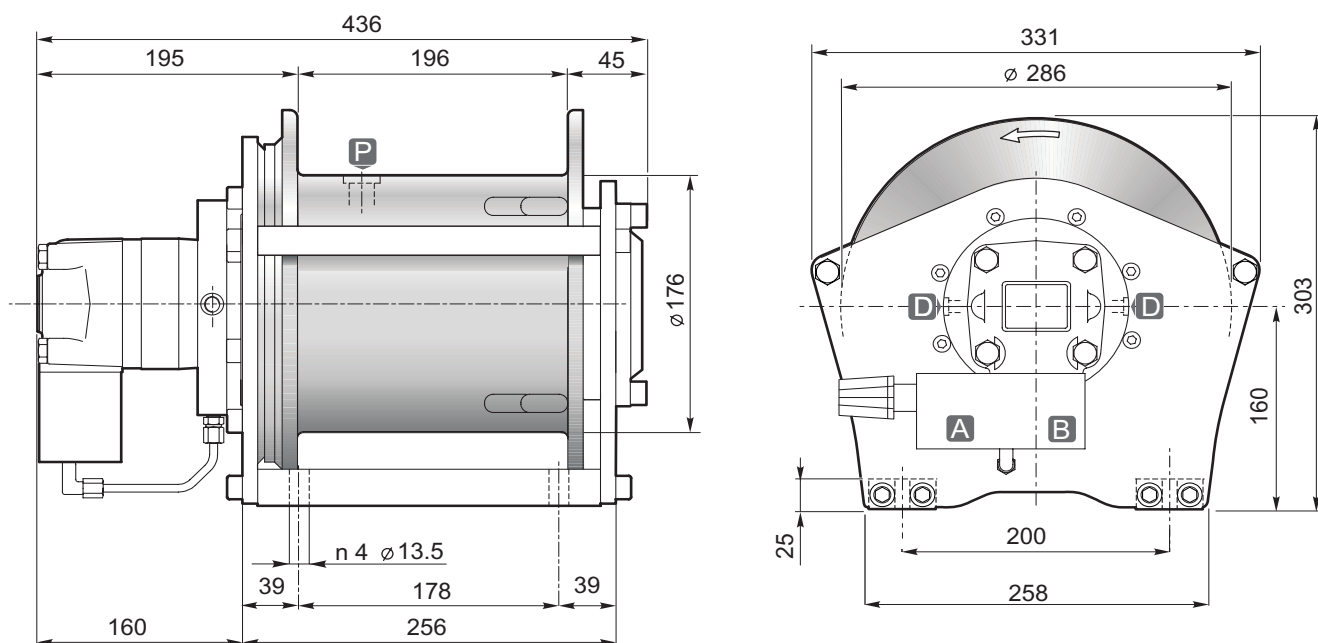
| Rope Dia. [in] | Rope storage capacity [FT] | | | | |
|-------------------|----------------------------|----|-----|------|------|
| | Layer | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 3/8" | 37 | 78 | 124 | 173 | 225* |
| 7/16" | 32 | 68 | 108 | 151* | — |

| | |
|------------|------|
| D/d | 19.5 |
| | 16.8 |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is clockwise (counterclockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 455 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.25 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|-----------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 2000 | 1800 | 1650 | 1530 |
| Velocità fune con Rope speed with | 76 [m/1'] | 43 | 47.5 | 52 | 56.5 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 11 | 23 | 36 | 51 |

| | | |
|--|--------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 170 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 76/20 |
| Cilindrata motore Motor displacement | [cm³] | 200 |
| Rapporto di riduzione Gear ratio | 1: | 4.77 |
| Diametro fune consigliato Advised rope diameter | [mm] | 10 |

| | |
|--|-------------|
| A Ramo di sollevamento Hoisting port | 3/4" BSP |
| B Ramo di discesa Lowering port | |

| | |
|--|-------------|
| D Ramo di drenaggio Drain port | 1/4" BSP |
| P Tappo olio lubrificazione Lubrication oil plug | 3/8" BSP |

| | |
|-----------------|-------|
| Massa Weight | 45 kg |
|-----------------|-------|



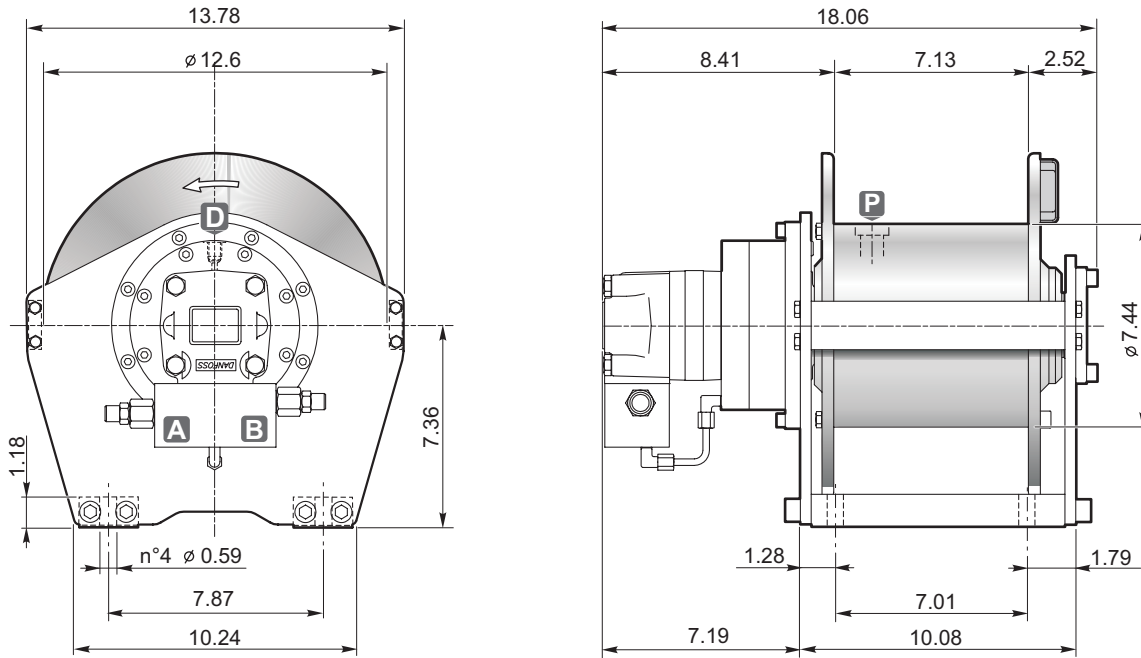
Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

Tamburo/Drum



- Sollevamento con rotazione del tamburo oraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 62 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- Per fissare l'argano utilizzare viti M12 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with clockwise rotation of the drum (or counter-clockwise if required).
- Negative multi-disc brake, with 62 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- To fix the winch use screws M12 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



Performance info: 12.28:1 ratio - 6.1 cu.in. disp. - 2550 PSI

| Layer | n | 1 | 2 | 3 | 4 |
|---------------------|-------|------|------|------|------|
| Line pull | [lbs] | 5500 | 4800 | 4300 | 3850 |
| Line speed @ 10 GPM | [fpm] | 61 | 69 | 78 | 86 |

Above specifications based on 9/16" wire rope diameter

| | | | | |
|------------------------|-------------|-------------------------------|----------|------------|
| A Hoisting port | 7/8" 14 UNF | D Motor case drain | 1/4" BSP | Weight 180 |
| B Lowering port | | P Lubrication oil plug | 3/8" BSP | |

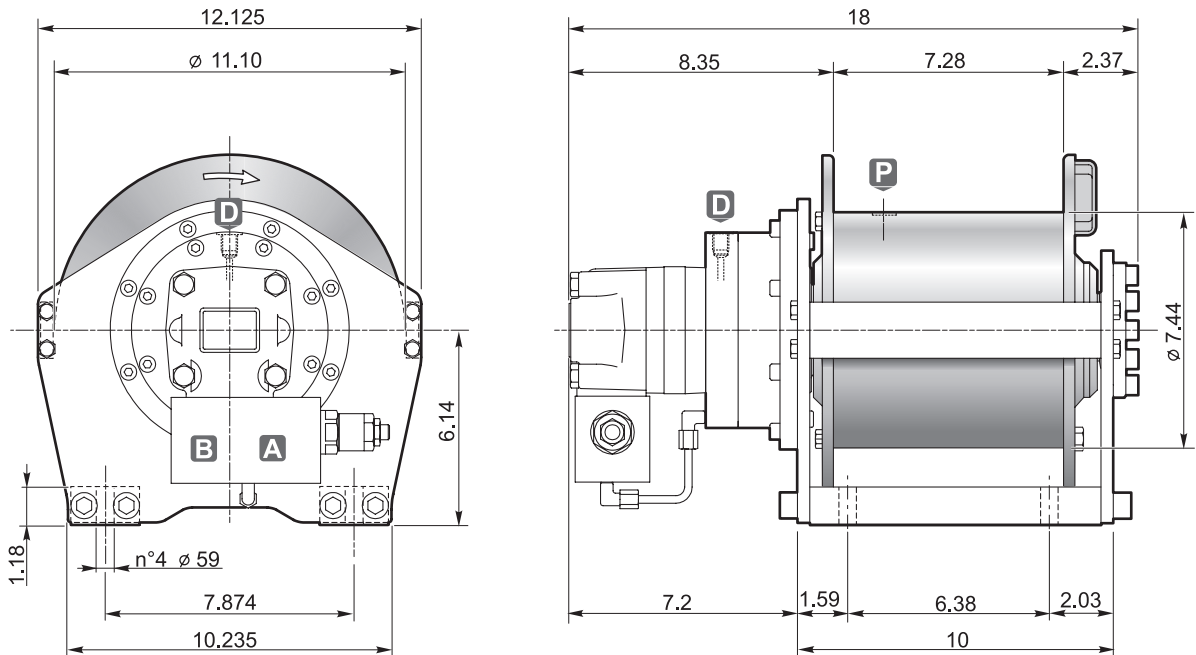
| Rope Dia. [in] | Rope storage capacity [FT] | | | |
|----------------|----------------------------|----|----|------|
| | Layer | | | |
| 1/2" | 28 | 59 | 93 | 131 |
| 9/16" | 24 | 52 | 84 | 118* |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is counterclockwise (clockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 545 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 3 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.25 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

A60




Performance info: 12.28:1 ratio - 6.10 cu.in. disp. - 2650 PSI

| Layer | n | 1 | 2 | 3 | 4* |
|---------------------|-------|------|------|------|------|
| Line pull | [lbs] | 6000 | 5400 | 4900 | 4500 |
| Line speed @ 17 GPM | [fpm] | 103 | 114 | 126 | 137 |

Above specifications based on 3/8" wire rope diameter

| | | |
|----------|---------------|----------------|
| A | Hoisting port | 7/8" 14-UNF |
| B | Lowering port | |

| | | |
|----------|----------------------|-------------|
| D | Motor case drain | 1/4" BSP |
| P | Lubrication oil plug | 3/8" BSP |

| | |
|--|-----|
|  Weight | 165 |
|--|-----|

| Rope Dia. [in] | Rope storage capacity [FT] | | | |
|-------------------|----------------------------|----|-----|------|
| | Layer | | | |
| | 1 | 2 | 3 | 4 |
| 3/8" | 38 | 79 | 124 | 172* |
| 7/16" | 32 | 68 | 108 | 151* |

| D/d |
|------|
| 20.8 |
| 18.0 |

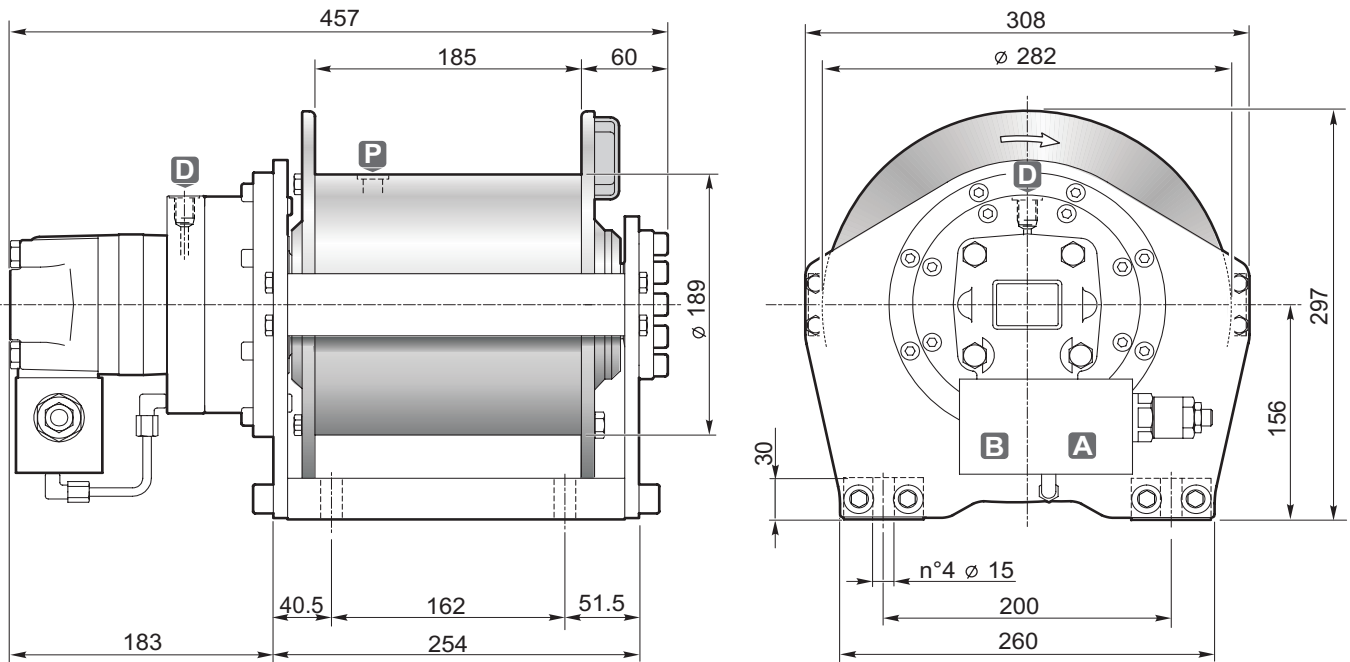
* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is clockwise (counterclockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 545 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 3 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.37 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



A60



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4* | |
|---|--------------|--------|------|------|------|----|
| Tiro diretto Line pull | [daN] | 2670 | 2400 | 2180 | 2000 | |
| Velocità fune con Rope speed with | 64 [L/1'] | [m/1'] | 31.5 | 35 | 38.5 | 42 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 10 | 21 | 33 | 46 | |


* Per la normativa ANSI, il numero di strati massimo è 3.

* The last layer per ANSI is 3.

| | | |
|--|--------|-------|
| Pressione di sollevamento Hoisting pressure | [bar] | 185 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 75/10 |
| Cilindrata motore Motor displacement | [cm³] | 100 |
| Rapporto di riduzione Gear ratio | 1: | 12.28 |
| Diametro fune consigliato Advised rope diameter | [mm] | 11 |

| | | |
|----------|---------------------------------------|-------------|
| A | Ramo di sollevamento Hoisting port | 3/4" BSP |
| B | Ramo di discesa Lowering port | |

| | | |
|----------|---|-------------|
| D | Ramo di drenaggio Drain port | 1/4" BSP |
| P | Tappo olio lubrificazione Lubrication oil plug | 3/8" BSP |

| | |
|---|-------|
|  Massa Weight | 74 kg |
|---|-------|



Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

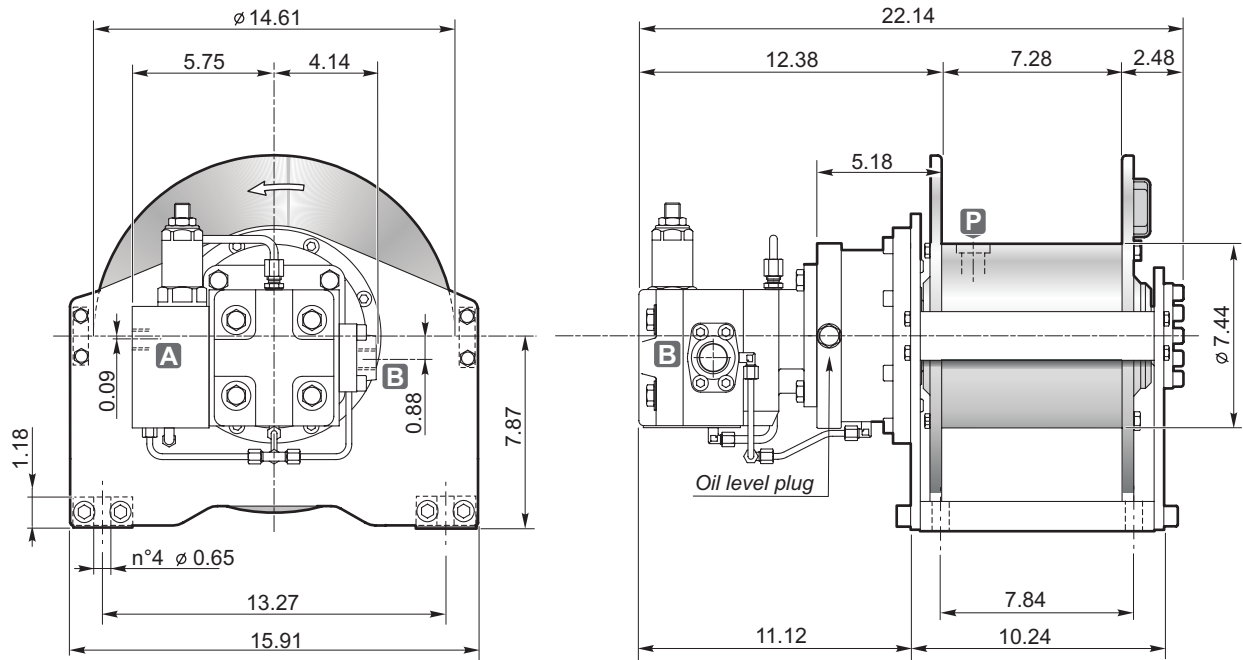
Tamburo/Drum



- Sollevamento con rotazione del tamburo oraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 74 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- Per fissare l'argano utilizzare viti M14 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with clockwise rotation of the drum (or counter-clockwise if required).
- Negative multi-disc brake, with 74 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- To fix the winch use screws M14 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

A62-3




Performance info: 26.5:1 ratio - 3.5 cu.in. disp. - 2450 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------------------|-------|------|------|------|------|------|------|------|------|
| Line pull | [lbs] | 6000 | 5400 | 4920 | 4510 | 4160 | 3860 | 3600 | 3380 |
| Line speed @ 21 GPM | [fpm] | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |

Above specifications based on 7/16" wire rope diameter

| | | |
|----------|---------------|------------------------------|
| A | Hoisting port | 1" 5/16-12 THD SAE-16 ORB |
| B | Lowering port | |

| | | |
|----------|----------------------|-------------|
| P | Lubrication oil plug | 3/8" BSP |
|----------|----------------------|-------------|

| | |
|--|-----|
|  Weight | 200 |
|--|-----|

| Rope Dia. [in] | Rope storage capacity [FT] | | | | | | | | |
|-------------------|----------------------------|----|-----|-----|-----|-----|-----|------|------|
| | Layer | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 3/8" | 38 | 79 | 124 | 172 | 225 | 280 | 340 | 403 | 470* |
| 7/16" | 32 | 68 | 108 | 151 | 197 | 248 | 302 | 360* | — |

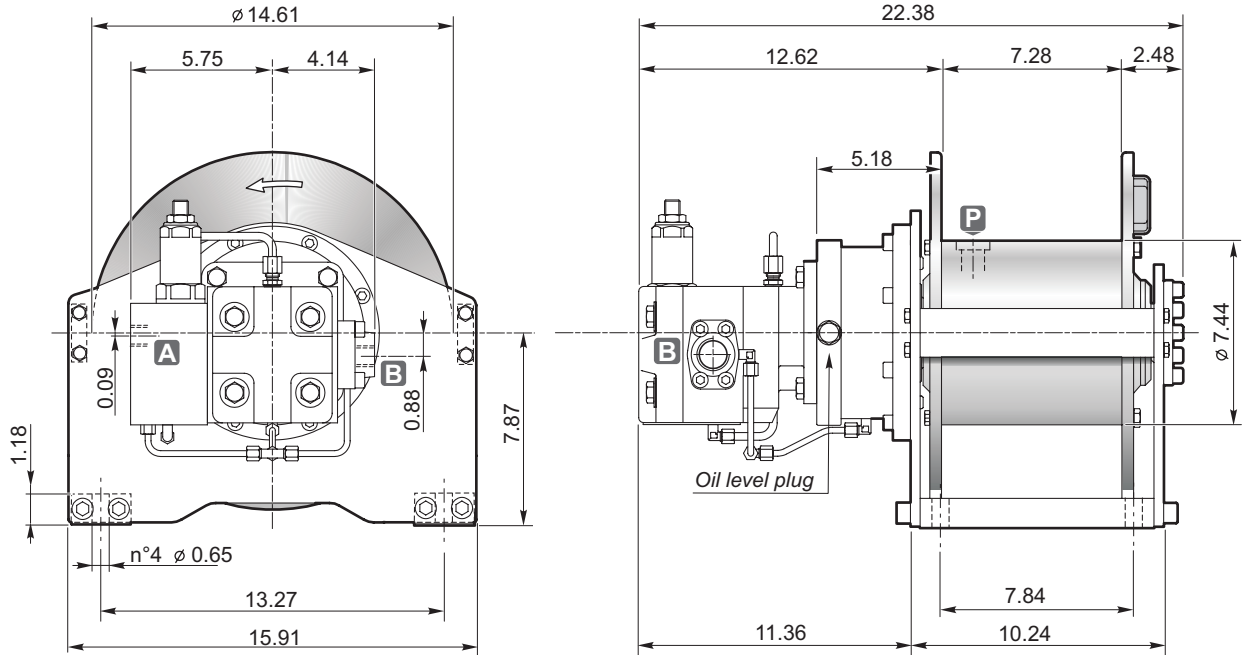
| | |
|------------|------|
| D/d | |
| | 20.8 |
| | 18.0 |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is counterclockwise (clockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 361 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.40 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

PERSONNEL HANDLING APPLICATIONS ON REQUEST

A62-4




Performance info: 26.5:1 ratio - 4.0 cu.in. disp. - 2100 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------------------|-------|------|------|------|------|------|------|------|------|
| Line pull | [lbs] | 6000 | 5400 | 4920 | 4510 | 4160 | 3860 | 3600 | 3380 |
| Line speed @ 27 GPM | [fpm] | 100 | 112 | 123 | 134 | 145 | 156 | 167 | 179 |
| Line speed @ 60 GPM | [fpm] | 223 | 248 | 273 | 297 | 322 | 346 | 371 | 396 |

Above specifications based on 7/16" wire rope diameter

| | | |
|----------|---------------|------------------------------|
| A | Hoisting port | 1" 5/16-12 THD SAE-16 ORB |
| B | Lowering port | |

| | | |
|----------|----------------------|----------|
| P | Lubrication oil plug | 3/8" BSP |
|----------|----------------------|----------|

| | |
|--|-----|
|  Weight | 200 |
|--|-----|

| Rope Dia. [in] | Rope storage capacity [FT] | | | | | | | | |
|-------------------|----------------------------|----|-----|-----|-----|-----|-----|------|------|
| | Layer | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 3/8" | 38 | 79 | 124 | 172 | 225 | 280 | 340 | 403 | 470* |
| 7/16" | 32 | 68 | 108 | 151 | 197 | 248 | 302 | 360* | — |

| | |
|------------|------|
| D/d | |
| | 20.8 |
| | 18.0 |

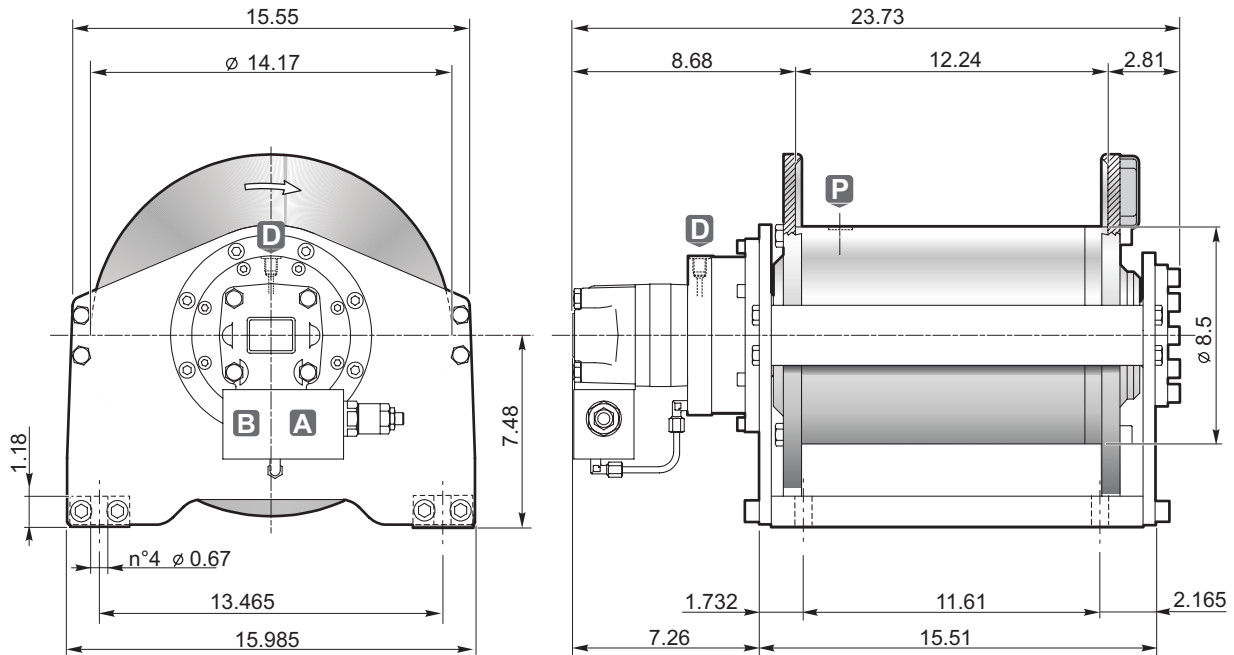
* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is counterclockwise (clockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 361 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.40 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

PERSONNEL HANDLING APPLICATIONS ON REQUEST



A80




Performance info: 15.26:1 ratio - 7.67 cu.in. disp. - 2650 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5 |
|---------------------|-------|------|------|------|------|------|
| Line pull | [lbs] | 8000 | 7200 | 6500 | 6000 | 5500 |
| Line speed @ 17 GPM | [fpm] | 76 | 84 | 93 | 101 | 110 |

Above specifications based on 1/2" wire rope diameter

| | | |
|----------|---------------|----------------|
| A | Hoisting port | 7/8" 14-UNF |
| B | Lowering port | |

| | | |
|----------|----------------------|-------------|
| D | Motor case drain | 1/4" BSP |
| P | Lubrication oil plug | 3/8" BSP |

| | |
|--|-----|
|  Weight | 290 |
|--|-----|

| Rope Dia. [in] | Rope storage capacity [FT] | | | | |
|-------------------|----------------------------|-----|-----|-----|------|
| | Layer | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 1/2" | 55 | 117 | 184 | 258 | 338* |

| | |
|------------|----|
| D/d | 18 |
|------------|----|

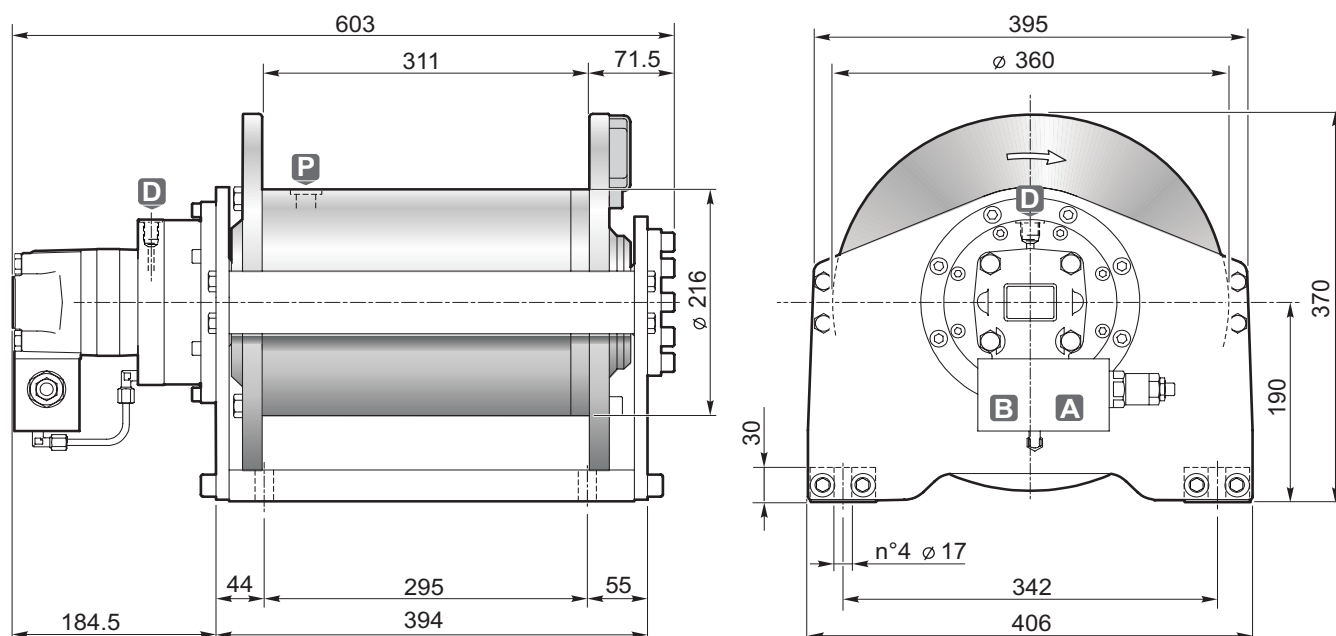
* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is clockwise (counterclockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 545 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.75 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE



A80



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 | |
|---|--------------|--------|------|------|------|------|
| Tiro diretto Line pull | [daN] | 3525 | 3175 | 2885 | 2645 | |
| Velocità fune con Rope speed with | 45 [L/1'] | [m/1'] | 16 | 18 | 19.5 | 21.5 |
| Q.tà fune tamburo liscio Rope capacity smooth drum | [m] | 17 | 36 | 57 | 80 | |

| | | |
|--|--------|------|
| Pressione di sollevamento Hoisting pressure | [bar] | 175 |
| Max-min portata alimentazione Max-min pump flow | [L/1'] | 75/6 |
| Cilindrata motore Motor displacement | [cm³] | 125 |
| Rapporto di riduzione Gear ratio | 1: | 15.3 |
| Diametro fune consigliato Advised rope diameter | [mm] | 12.7 |

| | | |
|----------|---------------------------------------|-------------|
| A | Ramo di sollevamento Hoisting port | 3/4" BSP |
| B | Ramo di discesa Lowering port | |

| | | |
|----------|---|-------------|
| D | Ramo di drenaggio Drain port | 1/4" BSP |
| P | Tappo olio lubrificazione Lubrication oil plug | 3/8" BSP |

| | |
|---|--------|
|  Massa Weight | 132 kg |
|---|--------|



Accessori disponibili / Available accessories **A-B-C1-C2-D-E**

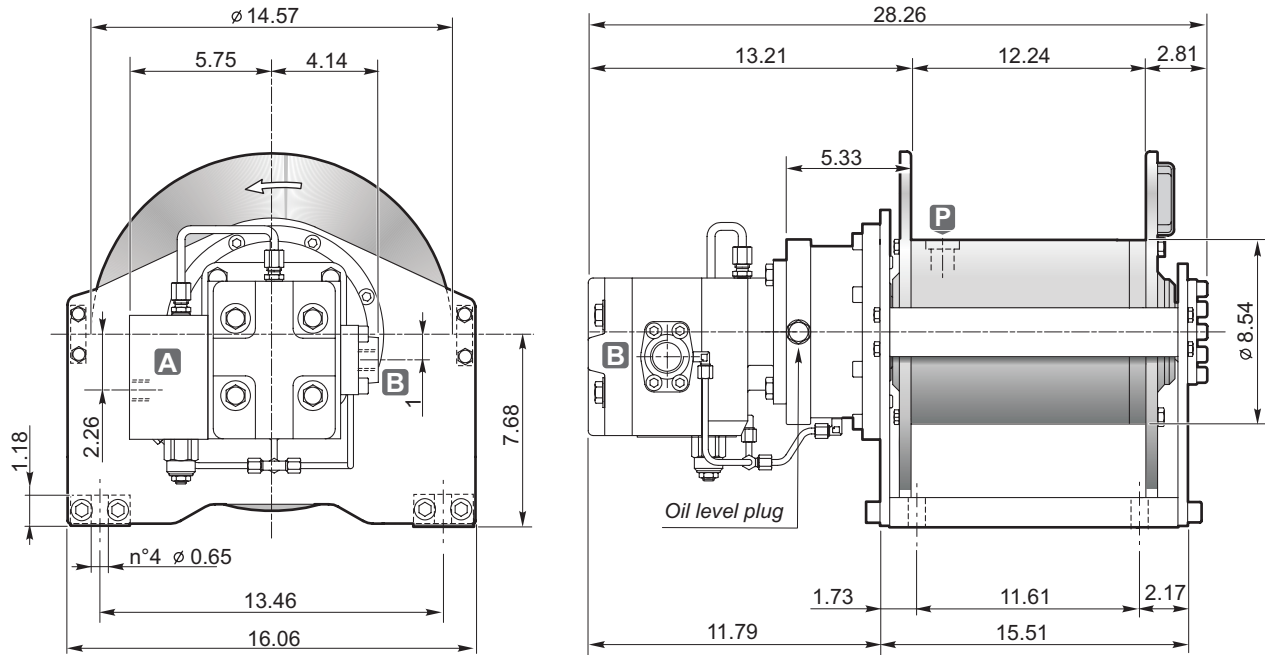
Tamburo/Drum



- Sollevamento con rotazione del tamburo oraria (contraria a richiesta).
- Freno negativo multidisco con coppia statica di 74 daNm.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 4 spire di fune sempre avvolta.
- Per fissare l'argano utilizzare viti M16 classe 10.9.
- Le caratteristiche tecniche possono variare senza preavviso.
- Hoisting with clockwise rotation of the drum (or counter-clockwise if required).
- Negative multi-disc brake, with 74 daNm of static torque.
- Gear lubrication oil bath.
- Maximum back pressure on return line: 5 bar.
- Always keep at least 4 wraps of rope on the drum for safety reasons.
- To fix the winch use screws M16 10.9 grade.
- Technical features may change with no previous notice from the manufacturer.

IL PRESENTE ARGANO NON PUÒ ESSERE UTILIZZATO PER IL SOLLEVAMENTO DI PERSONE
THE PRESENT EQUIPMENT CAN'T BE USED TO LIFT PEOPLE

A81-5



Performance info: 21:1 ratio - 5.14 cu.in. disp. - 3000 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5 | 6 |
|---------------------|-------|------|------|------|------|------|------|
| Line pull | [lbs] | 8000 | 7200 | 6500 | 6000 | 5500 | 5100 |
| Line speed @ 45 GPM | [fpm] | 195 | 216 | 238 | 260 | 281 | 303 |
| Line speed @ 65 GPM | [fpm] | 282 | 313 | 344 | 376 | 407 | 438 |

Above specifications based on 1/2" wire rope diameter

| | | | | |
|------------------------|------------------------------|-------------------------------|-------------|------------|
| A Hoisting port | 1" 5/16-12 THD SAE-16 ORB | P Lubrication oil plug | 3/8" BSP | Weight 330 |
| B Lowering port | | | | |

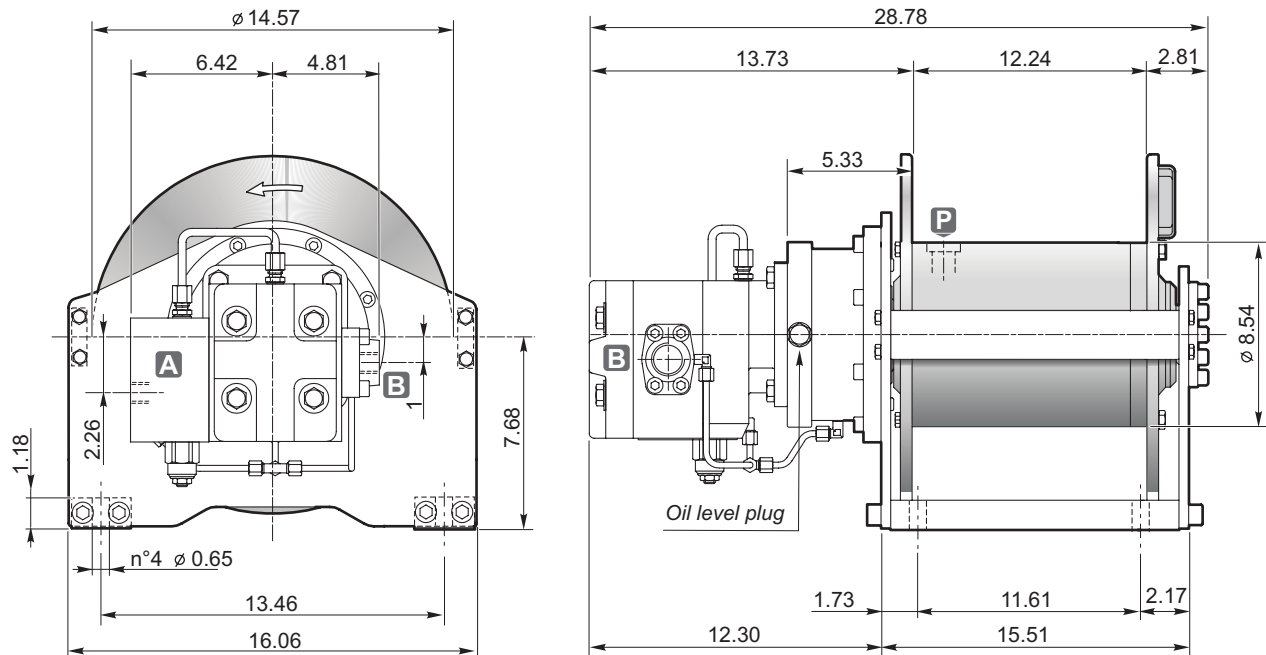
| Rope Dia. [in] | Rope storage capacity [FT] | | | | | | D/d |
|-------------------|----------------------------|-----|-----|-----|-----|------|------|
| | Layer | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | |
| 7/16" | 63 | 132 | 208 | 290 | 377 | 472* | 20.4 |
| 1/2" | 55 | 117 | 184 | 258 | 338 | 424* | 18.0 |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is counterclockwise (clockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 361 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.75 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

PERSONNEL HANDLING APPLICATIONS ON REQUEST


A81-6



Performance info: 21:1 ratio - 6.42 cu.in. disp. - 2500 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5 | 6 |
|---------------------|-------|------|------|------|------|------|------|
| Line pull | [lbs] | 8000 | 7200 | 6500 | 6000 | 5500 | 5100 |
| Line speed @ 45 GPM | [fpm] | 163 | 181 | 199 | 217 | 236 | 254 |
| Line speed @ 65 GPM | [fpm] | 235 | 262 | 289 | 315 | 340 | 367 |

Above specifications based on 1/2" wire rope diameter

| | | | | | |
|------------------------|------------------------------|-------------------------------|-------------|--|-----|
| A Hoisting port | 1" 5/16-12 THD SAE-16 ORB | P Lubrication oil plug | 3/8" BSP |  Weight | 330 |
| B Lowering port | | | | | |

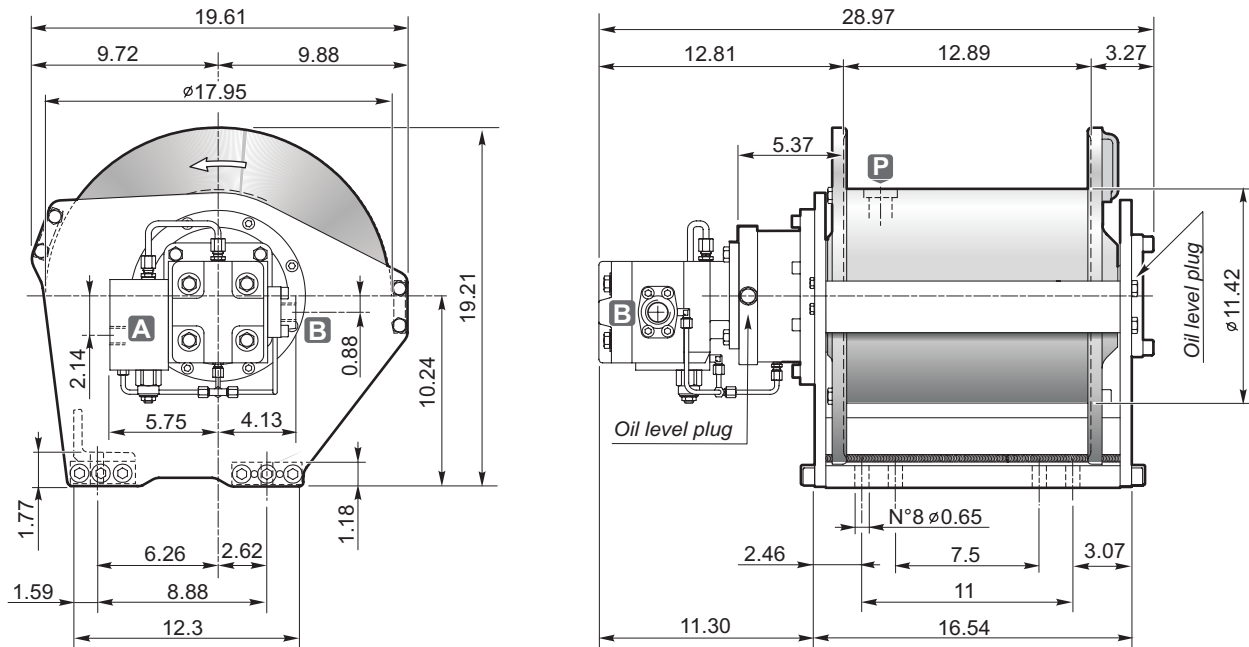
| Rope Dia. [in] | Rope storage capacity [FT] | | | | | | D/d |
|-------------------|----------------------------|-----|-----|-----|-----|------|------|
| | Layer | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | |
| 7/16" | 63 | 132 | 208 | 290 | 377 | 472* | 20.4 |
| 1/2" | 55 | 117 | 184 | 258 | 338 | 424* | 18.0 |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is counterclockwise (clockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 361 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 0.75 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

PERSONNEL HANDLING APPLICATIONS ON REQUEST

A120-4



Performance info: 64.1 :1 ratio - 4.0 cu.in. disp. - 2570 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5 | 6 |
|---------------------|-------|-------|-------|-------|------|------|------|
| Line pull | [lbs] | 12000 | 10970 | 10100 | 9360 | 8720 | 8160 |
| Line speed @ 45 GPM | [fpm] | 114 | 125 | 135 | 146 | 157 | 168 |
| Line speed @ 65 GPM | [fpm] | 165 | 180 | 196 | 211 | 227 | 242 |

Above specifications based on 9/16" wire rope diameter

| | | | | |
|------------------------|------------------------------|-------------------------------|-------------|------------|
| A Hoisting port | 1" 5/16-12 THD SAE-16 ORB | P Lubrication oil plug | 3/8" BSP | Weight 520 |
| B Lowering port | | | | |

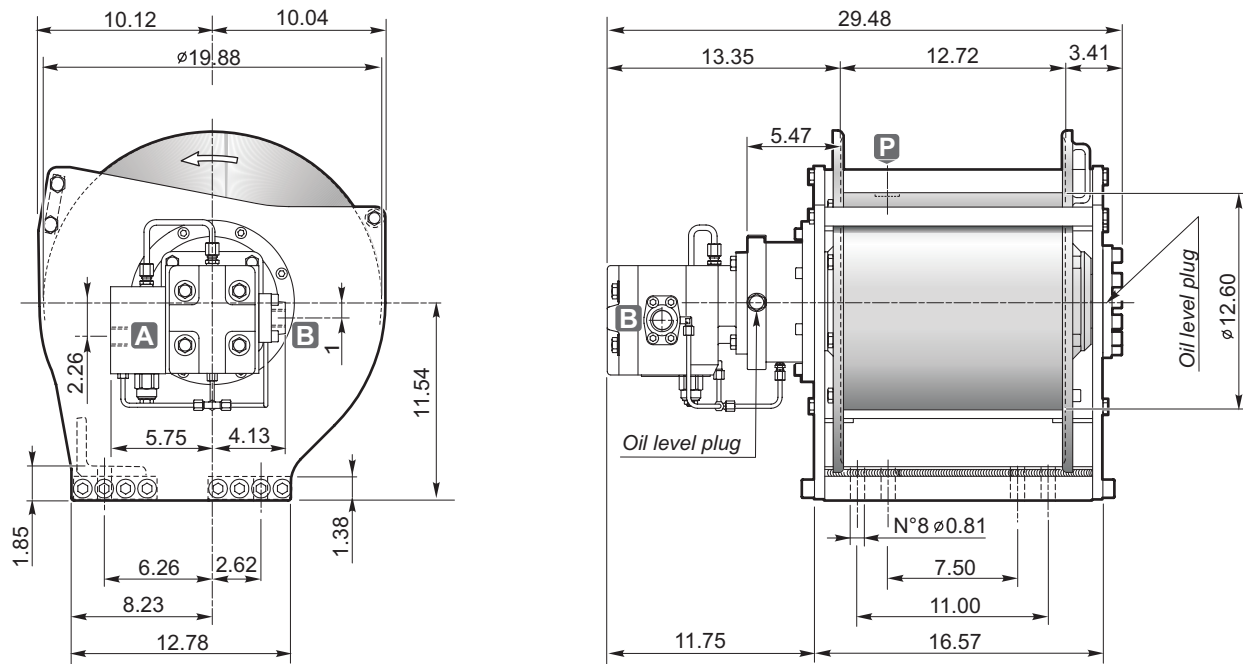
| Rope Dia. [in] | Rope storage capacity [FT] | | | | | | D/d |
|-------------------|----------------------------|-----|-----|-----|------|------|------|
| | Layer | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | |
| 1/2" | 77 | 161 | 251 | 349 | 450 | 550* | 23.8 |
| 9/16" | 68 | 143 | 225 | 313 | 407 | 508* | 21.3 |
| 5/8 | 62 | 130 | 205 | 285 | 373* | | 19.2 |

* This layer does not comply with ANSI spec. B30.7

- Standard hoisting drum rotation is counterclockwise (clockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 361 ft-lbs.
- Maximum back pressure on the return line : 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 1.8 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

PERSONNEL HANDLING APPLICATIONS ON REQUEST


A150-5



Performance info: 62.7:1 ratio - 5.14 cu.in. disp. - 2550 PSI

| Layer | n | 1 | 2 | 3 | 4 | 5 | 6 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|
| Line pull | [lbs] | 15000 | 13700 | 12600 | 11700 | 10900 | 10200 |
| Line speed @ 45 GPM | [fpm] | 103 | 113 | 123 | 133 | 143 | 153 |
| Line speed @ 80 GPM | [fpm] | 185 | 202 | 220 | 237 | 255 | 272 |

Above specifications based on 5/8" wire rope diameter

| | | | | | |
|------------------------|------------------------------|-------------------------------|-------------|--|-----|
| A Hoisting port | 1" 5/16-12 THD SAE-16 ORB | P Lubrication oil plug | 3/8" BSP |  Weight | 730 |
| B Lowering port | | | | | |

| Rope Dia. [in] | Rope storage capacity [FT] | | | | | | D/d |
|-------------------|----------------------------|-----|-----|-----|-----|------|------|
| | Layer | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | |
| 9/16" | 75 | 155 | 242 | 336 | 436 | 542* | 23.8 |
| 5/8" | 67 | 140 | 220 | 306 | 400 | 498* | 21.3 |

* This layer does not comply with ANSI spec. B30.7

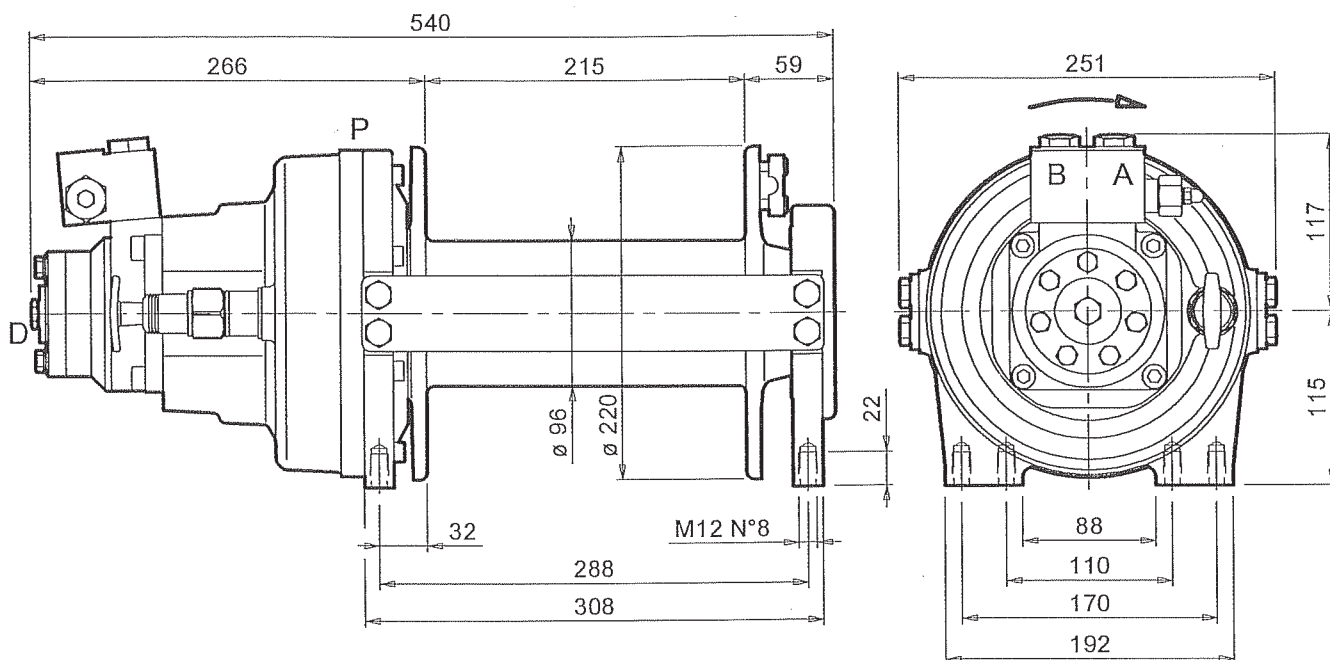
- Standard hoisting drum rotation is counterclockwise (clockwise on request). Winch rotation is defined when viewing the motor.
- Load control when lowering is achieved by the overcentre brake valve to ensure smooth performance.
- Operation of the internal negative static multi disc brake is automatic. Static brake torque is: 361 ft-lbs.
- Maximum back pressure on the return line: 72.5 PSI.
- Always keep at least 4 wraps of cable on the drum for safety reasons.
- Gear lubrication is achieved by splash oil bath.
- Gear lubricant - hydraulic oil 2.5 gal.
- Technical Specifications are subject to change without prior notice from manufacturer.

PERSONNEL HANDLING APPLICATIONS ON REQUEST

DATI TECNICI E DIMENSIONI**TECHNICAL DATA AND DIMENSIONS**

| Grandezza Size | Tiro diretto primo strato Line pull first rope layer [daN] | Tiro diretto ultimo strato Line pull last rope layer [daN] |
|-------------------|--|--|
| T27 | 2700 | 1725 |
| T36 | 3600 | 2150 |
| T46 | 4600 | 2750 |
| T60 | 6000 | 3500 |
| T100 | 10000 | 6000 |
| T200 | 20000 | 12000 |
| T300 | 30000 | 18200 |

T27



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 | | |
|--|------|------|------|------|------|--|---------------------|
| Tiro diretto Line pull | daN | 2700 | 2300 | 2000 | 1725 | Pressione di traino Pulling pressure | 150 bar |
| Velocità fune con Rope speed with | m/1° | 12 | 14 | 16,5 | 19 | Max-min portata alim. Max-min pump delivery | 45/10 l/1° |
| Q.tà fune ø 8 mm ø 8 mm Rope capacity | m | 8,5 | 18 | 29 | 41,5 | Cilindrata motore Motor displacement | 165 cm ³ |
| Q.tà fune ø 10 mm ø 10 mm Rope capacity | | 6,8 | 15 | 24 | 35 | Rapporto di riduzione Gear ratio | 1:5,7 |

| | | | | | |
|--|------|--|------|--|---------------|
| A= Ramo di avvolgimento Winding port | 3/8° | D= Ramo di drenaggio Drain port | 1/4° | Diametro fune consigliato Advised rope size | 8 mm 10 mm |
| B= Ramo di svolgimento Unwinding port | | P= Tappo olio lubrificazione Lubrication oil plug | 1/4° | Massa Weight | 50 Kg |

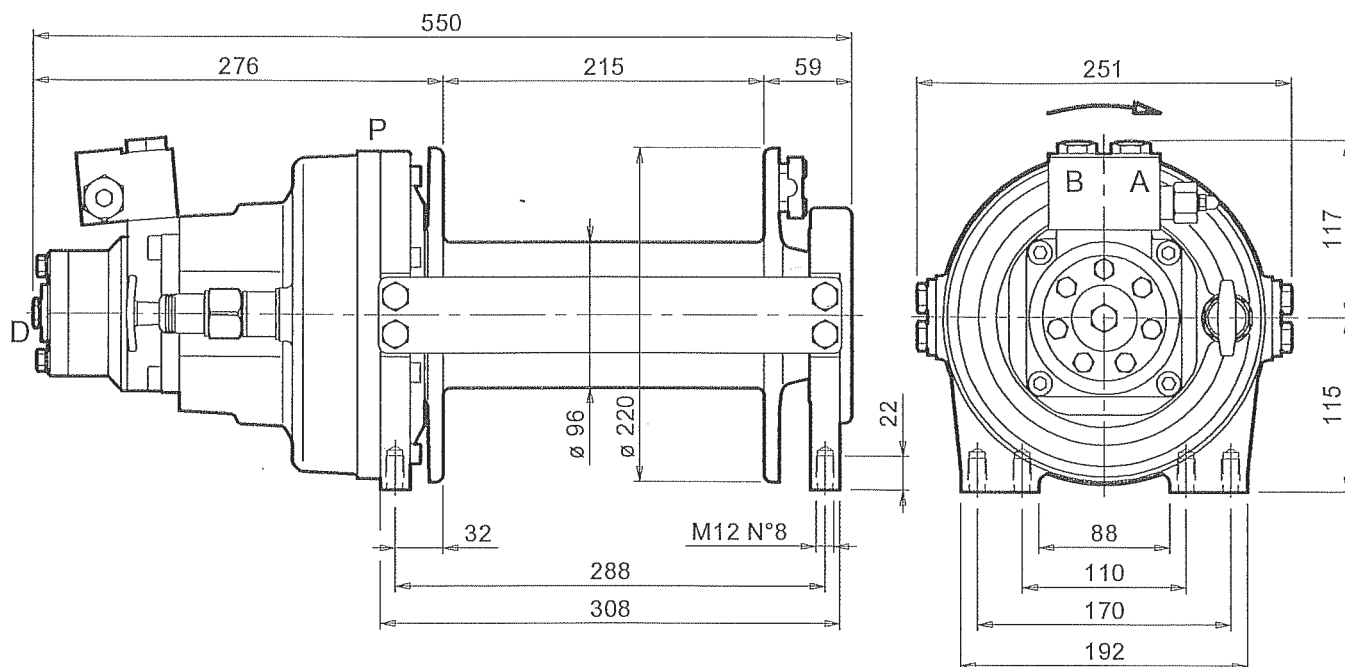
Il presente verricello non può essere utilizzato per il sollevamento o lo spostamento di persone.

- Tiro con rotazione antioraria del tamburo. (Contraria a richiesta).
- Freno negativo multidisco con coppia statica di 55 daN.m.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 5 spire di fune sempre avvolte.
- Le caratteristiche tecniche possono variare senza preavviso.

The present equipment can't be used to lift or transport people.

- Pull with counter clockwise rotation of the drum. (or clockwise if required).
- Negative multi-disc brake with 55 daN.m of static torque.
- Gear lubrication oil bath.
- Maximum back pressure or return line: 5 bar.
- Always keep at least 5 twists of rope on the drum, for safety reasons.
- Technical features may change with no previous notice from manufacturer.

T36



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|--|-----------------|------|------|------|------|
| Tiro diretto Line pull | daN | 3600 | 2950 | 2500 | 2150 |
| Velocità fune con Rope speed with | 40 l/1° m/1° | 8 | 10 | 12 | 14 |
| Q.tà fune ø 10 mm ø 10 mm Rope capacity | m | 6,8 | 15 | 24 | 35 |
| Q.tà fune ø 12 mm ø 12 mm Rope capacity | | 5,7 | 12,5 | 21 | 30,6 |

| | |
|--|---------------------|
| Pressione di traino Pulling pressure | 145 bar |
| Max-min portata alim. Max-min pump delivery | 45/10 l/1° |
| Cilindrata motore Motor displacement | 240 cm ³ |
| Rapporto di riduzione Gear ratio | 1:5,7 |

| | | | | | |
|--|------|--|------|--|----------------|
| A= Ramo di avvolgimento Winding port | 3/8° | D= Ramo di drenaggio Drain port | 1/4° | Diametro fune consigliato Advised rope size | 10 mm 12 mm |
| B= Ramo di svolgimento Unwinding port | | P= Tappo olio lubrificazione Lubrication oil plug | 1/4° | Massa Weight | 50 Kg |

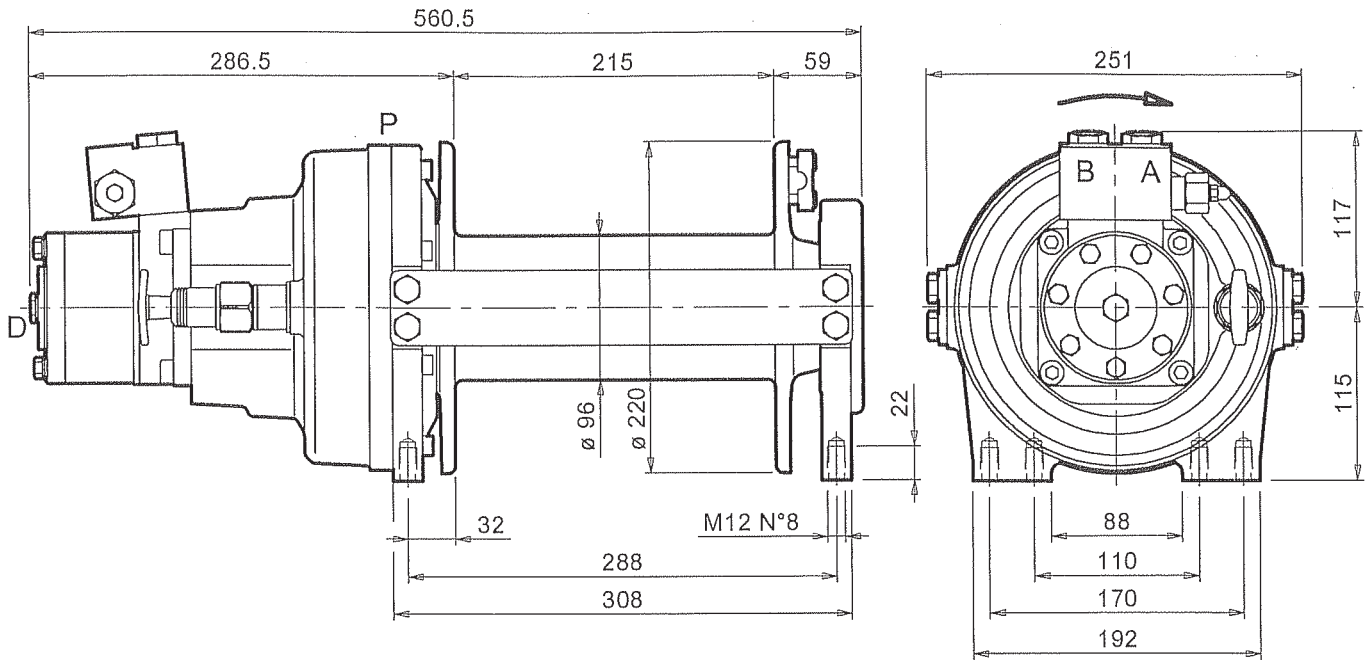
Il presente verricello non può essere utilizzato per il sollevamento o lo spostamento di persone.

- Tiro con rotazione antioraria del tamburo. (Contraria a richiesta).
- Freno negativo multidisco con coppia statica di 55 daN.m.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 5 spire di fune sempre avvolte.
- Le caratteristiche tecniche possono variare senza preavviso.

The present equipment can't be used to lift or transport people.

- Pull with counter clockwise rotation of the drum. (or clockwise if required).
- Negative multi-disc brake with 55 daN.m of static torque.
- Gear lubrication oil bath.
- Maximum back pressure or return line: 5 bar.
- Always keep at least 5 twists of rope on the drum, for safely reasons.
- Technical features may change with no previous notice from manufacturer.

T46



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|--|-----------------|------|------|------|------|
| Tiro diretto Line pull | daN | 4600 | 3750 | 3200 | 2750 |
| Velocità fune con Rope speed with | 40 l/1° m/1° | 8,5 | 10 | 12 | 14 |
| Q.tà fune ø 12 mm ø 12 mm Rope capacity | m | 5,7 | 12,5 | 21 | 30,6 |

| | |
|--|---------------------|
| Pressione di traino Pulling pressure | 170 bar |
| Max-min portata alim. Max-min pump delivery | 45/10 l/1° |
| Cilindrata motore Motor displacement | 250 cm ³ |
| Rapporto di riduzione Gear ratio | 1:5,4 |

| | | | | | |
|--|------|--|------|--|-------|
| A= Ramo di avvolgimento Winding port | 3/8° | D= Ramo di drenaggio Drain port | 1/4° | Diametro fune consigliato Advised rope size | 12 mm |
| B= Ramo di svolgimento Unwinding port | | P= Tappo olio lubrificazione Lubrication oil plug | 1/4° | Massa Weight | 50 Kg |

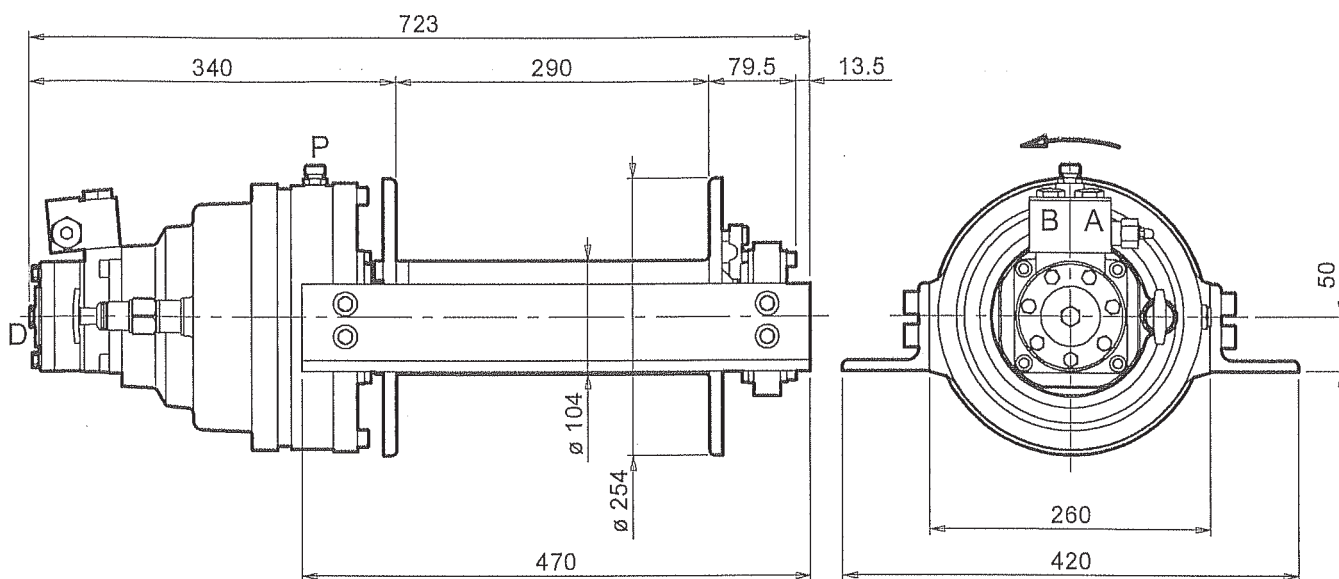
Il presente verricello non può essere utilizzato per il sollevamento o lo spostamento di persone.

- Tiro con rotazione antioraria del tamburo. (Contrarla a richiesta).
- Freno negativo multidisco con coppia statica di 55 daN.m.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 5 spire di fune sempre avvolte.
- Le caratteristiche tecniche possono variare senza preavviso.

The present equipment can't be used to lift or transport people.

- Pull with counter clockwise rotation of the drum. (or clockwise if required).
- Negative multi-disc brake with 55 daN.m of static torque.
- Gear lubrication oil bath.
- Maximum back pressure or return line: 5 bar.
- Always keep at least 5 twists of rope on the drum, for safety reasons.
- Technical features may change with no previous notice from manufacturer.

T60



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|--|-----------------|------|------|------|------|
| Tiro diretto Line pull | daN | 6000 | 4850 | 4070 | 3500 |
| Velocità fune con Rope speed with | 40 l/1° m/1° | 6,5 | 8 | 9,5 | 11 |
| Q.tà fune ø 14 mm ø 14 mm Rope capacity | m | 7,5 | 16,5 | 27 | 40 |

| | |
|--|---------------------|
| Pressione di traino Pulling pressure | 180 bar |
| Max-min portata alim. Max-min pump delivery | 45/10 l/1° |
| Cilindrata motore Motor displacement | 127 cm ³ |
| Rapporto di riduzione Gear ratio | 1:14,8 |

| | | | | | |
|--|------|--|------|--|-------|
| A= Ramo di avvolgimento Winding port | 3/8° | D= Ramo di drenaggio Drain port | 1/4° | Diametro fune consigliato Advised rope size | 14 mm |
| B= Ramo di svolgimento Unwinding port | | P= Tappo olio lubrificazione Lubrication oil plug | 3/8° | Massa Weight | 86 Kg |

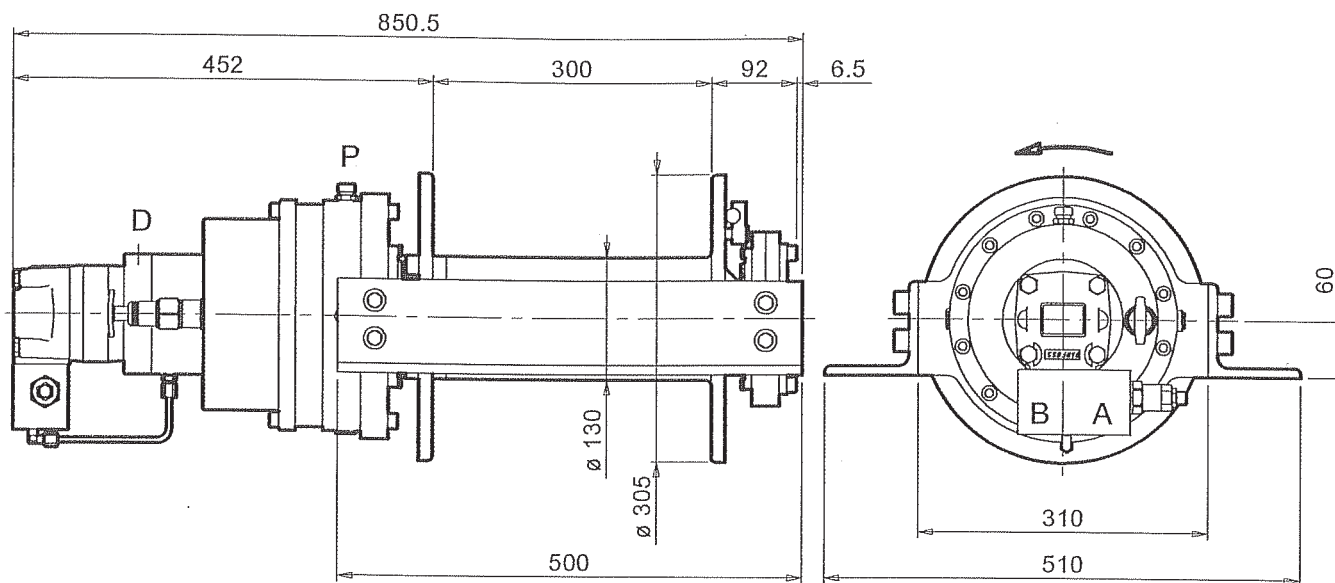
Il presente verricello non può essere utilizzato per il sollevamento o lo spostamento di persone.

- Tiro con rotazione antioraria del tamburo. (Contraria a richiesta).
- Freno negativo multidisco con coppia statica di 55 daN.m.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 5 spire di fune sempre avvolte.
- Le caratteristiche tecniche possono variare senza preavviso.

The present equipment can't be used to lift or transport people.

- Pull with counter clockwise rotation of the drum. (or clockwise if required).
- Negative multi-disc brake with 55 daN.m of static torque.
- Gear lubrication oil bath.
- Maximum back pressure or return line: 5 bar.
- Always keep at least 5 twists of rope on the drum, for safety reasons.
- Technical features may change with no previous notice from manufacturer.

T100



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|--|------|-------|------|------|------|
| Tiro diretto Line pull | daN | 10000 | 8200 | 6950 | 6000 |
| Velocità fune con 75 l/1° Rope speed with | m/1° | 8 | 10 | 12 | 14 |
| Q.tà fune ø 16 mm ø 16 mm Rope capacity | m | 8 | 18 | 30 | 43 |

| | |
|--|---------------------|
| Pressione di traino Pulling pressure | 170 bar |
| Max-min portata alim. Max-min pump delivery | 75/10 l/1° |
| Cilindrata motore Motor displacement | 160 cm ³ |
| Rapporto di riduzione Gear ratio | 1:23 |

| | | | | | |
|--|------|--|------|--|--------|
| A= Ramo di avvolgimento Winding port | 3/4° | D= Ramo di drenaggio Drain port | 1/4° | Diametro fune consigliato Advised rope size | 16 mm |
| B= Ramo di svolgimento Unwinding port | | P= Tappo olio lubrificazione Lubrication oil plug | 3/8° | Massa Weight | 135 Kg |

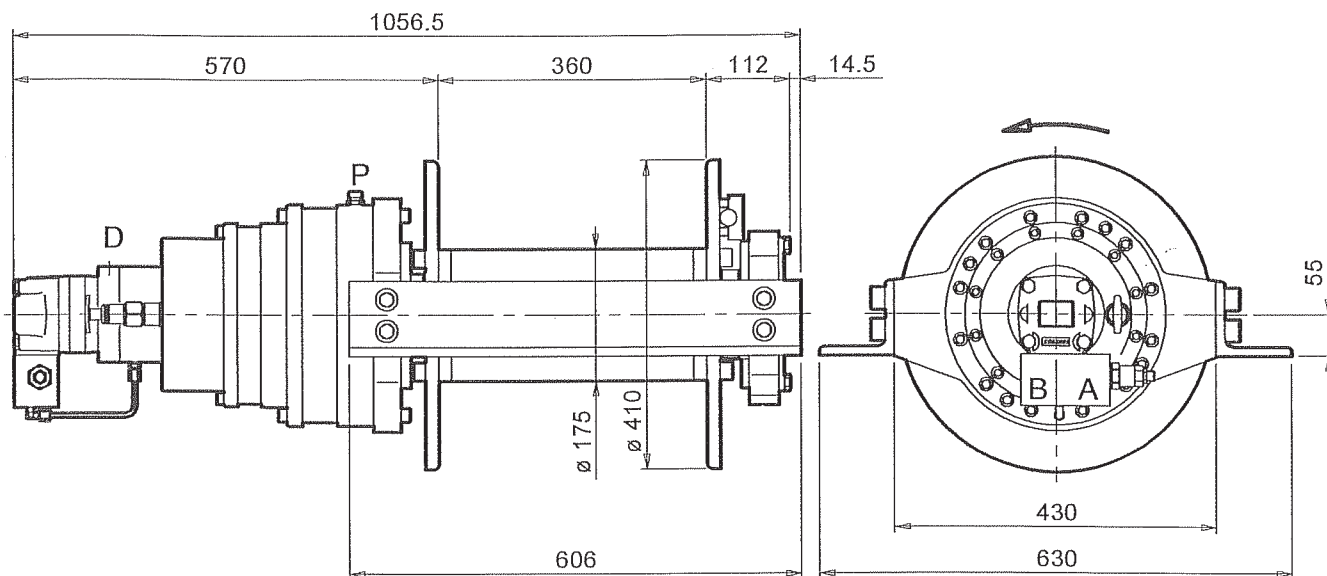
Il presente verricello non può essere utilizzato per il sollevamento o lo spostamento di persone.

- Tiro con rotazione antioraria del tamburo. (Contraria a richiesta).
- Freno negativo multidisco con coppia statica di 42 daN.m.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 5 spire di fune sempre avvolte.
- Le caratteristiche tecniche possono variare senza preavviso.

The present equipment can't be used to lift or transport people.

- Pull with counter clockwise rotation of the drum. (or clockwise if required).
- Negative multi-disc brake with 42 daN.m of static torque.
- Gear lubrication oil bath.
- Maximum back pressure or return line: 5 bar.
- Always keep at least 5 twists of rope on the drum, for safety reasons.
- Technical features may change with no previous notice from manufacturer.

T200



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|--|------|-------|-------|-------|-------|
| Tiro diretto Line pull | daN | 20000 | 16350 | 13850 | 12000 |
| Velocità fune con Rope speed with 75 l/1° | m/1° | 5 | 6 | 7,3 | 8,5 |
| Q.tà fune ø 22 mm ø 22 mm Rope capacity | m | 9,5 | 21 | 35 | 51 |

| | |
|--|---------------------|
| Pressione di traino Pulling pressure | 210 bar |
| Max-min portata alim. Max-min pump delivery | 75/10 l/1° |
| Cilindrata motore Motor displacement | 125 cm ³ |
| Rapporto di riduzione Gear ratio | 1:64,5 |

| | | | | | |
|--|------|--|------|--|--------|
| A= Ramo di avvolgimento Winding port | 3/4° | D= Ramo di drenaggio Drain port | 1/4° | Diametro fune consigliato Advised rope size | 22 mm |
| B= Ramo di svolgimento Unwinding port | | P= Tappo olio lubrificazione Lubrication oil plug | 3/8° | Massa Weight | 250 Kg |

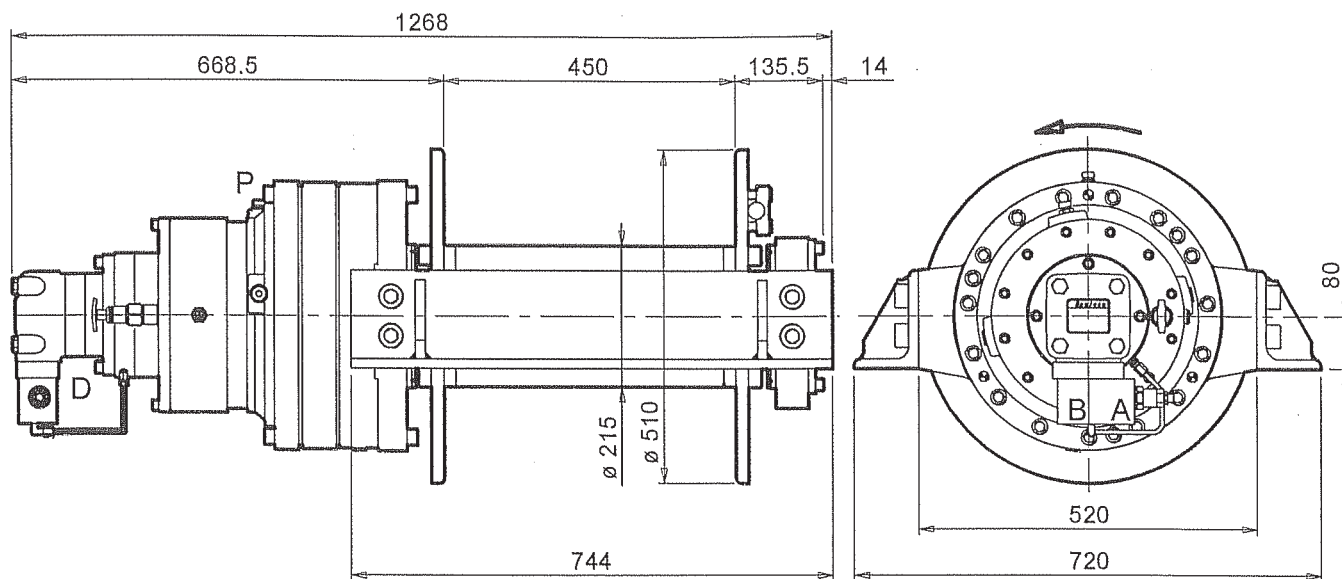
Il presente verricello non può essere utilizzato per il sollevamento o lo spostamento di persone.

- Tiro con rotazione antioraria del tamburo. (Contraria a richiesta).
- Freno negativo multidisco con coppia statica di 42 daN.m.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 5 spire di fune sempre avvolte.
- Le caratteristiche tecniche possono variare senza preavviso.

The present equipment can't be used to lift or transport people.

- Pull with counter clockwise rotation of the drum. (or clockwise if required).
- Negative multi-disc brake with 42 daN.m of static torque.
- Gear lubrication oil bath.
- Maximum back pressure or return line: 5 bar.
- Always keep at least 5 twists of rope on the drum, for safety reasons.
- Technical features may change with no previous notice from manufacturer.

T300



| Strato di fune Rope layer | n° | 1 | 2 | 3 | 4 |
|---|------|-------|-------|-------|-------|
| Tiro diretto Line pull | daN | 30000 | 24650 | 20950 | 18200 |
| Velocità fune con 100 l/1° Rope speed with | m/1° | 4,5 | 5,5 | 6,5 | 7,5 |
| Q.tà fune ø 26 mm ø 26 mm Rope capacity | m | 12,5 | 27,5 | 45 | 65,5 |

| | |
|--|---------------------|
| Pressione di traino Pulling pressure | 205 bar |
| Max-min portata alim. Max-min pump delivery | 100/10 l/1° |
| Cilindrata motore Motor displacement | 250 cm ³ |
| Rapporto di riduzione Gear ratio | 1:60,5 |

| | | | | | |
|--|------|--|------|--|--------|
| A= Ramo di avvolgimento Winding port | 3/4° | D= Ramo di drenaggio Drain port | 1/4° | Diametro fune consigliato Advised rope size | 26 mm |
| B= Ramo di svolgimento Unwinding port | | P= Tappo olio lubrificazione Lubrication oil plug | 3/8° | Massa Weight | 420 Kg |

Il presente verricello non può essere utilizzato per il sollevamento o lo spostamento di persone.

- Tiro con rotazione antioraria del tamburo. (Contraria a richiesta).
- Freno negativo multidisco con coppia statica di 120 daN.m.
- Lubrificazione ingranaggi in bagno d'olio.
- Contropressione massima sulla linea di ritorno 5 bar.
- Per sicurezza lasciare sul tamburo 5 spire di fune sempre avvolte.
- Le caratteristiche tecniche possono variare senza preavviso.

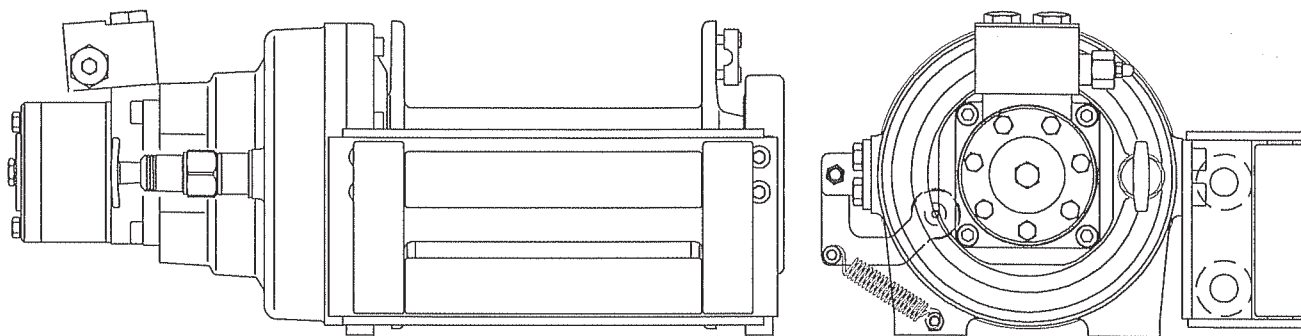
The present equipment can't be used to lift or transport people.

- Pull with counter clockwise rotation of the drum. (or clockwise if required).
- Negative multi-disc brake with 120 daN.m of static torque.
- Gear lubrication oil bath.
- Maximum back pressure or return line: 5 bar.
- Always keep at least 5 twists of rope on the drum, for safely reasons.
- Technical features may change with no previous notice from manufacturer.

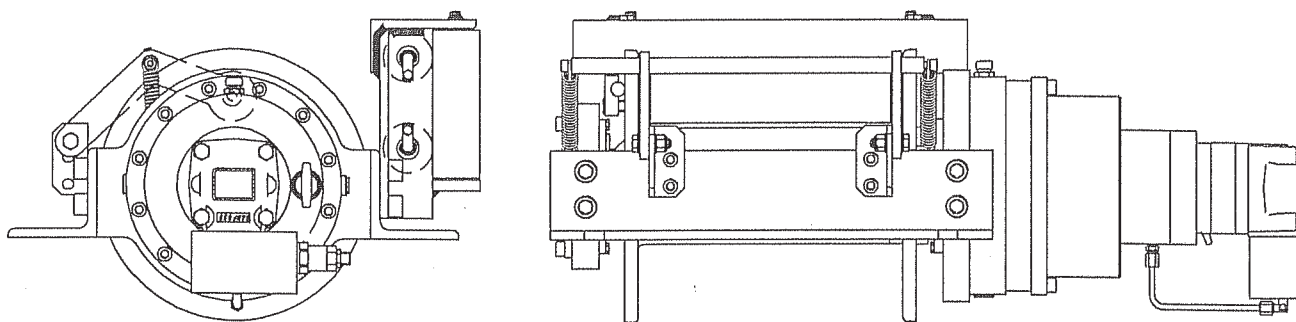
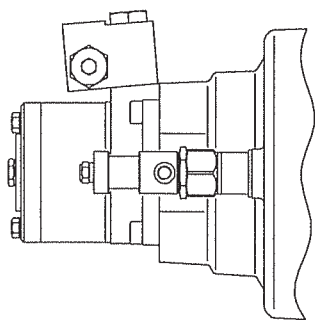
ACCESSORI

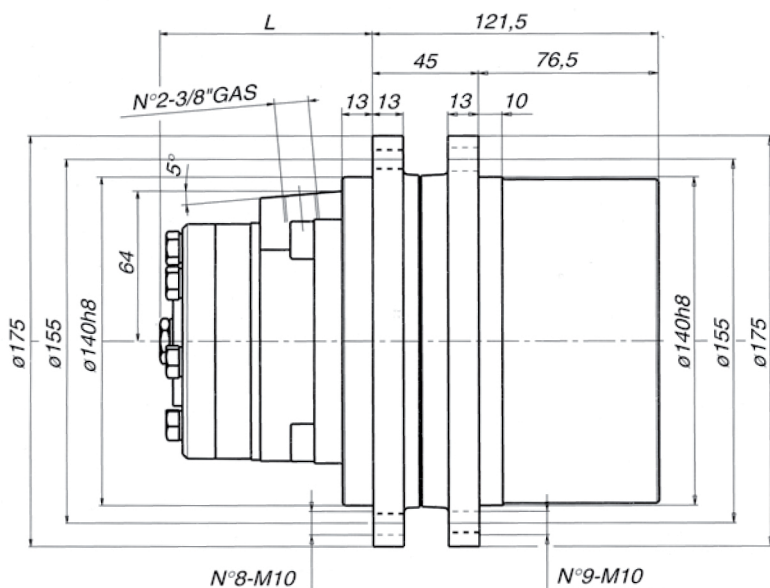
ACCESSORIES

PRESSACAVO E GUIDAFUNE
CABLE TENSIONER AND GUIDE ROPE

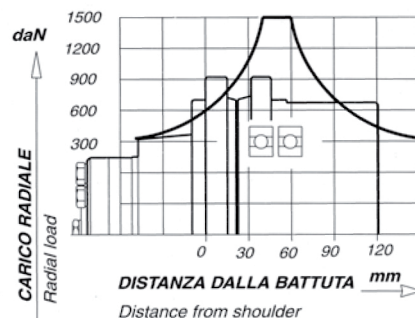


DISINNESTO PNEUMATICO
PNEUMATIK DRUM RELEASE





CARICHI RADIALI - Radial load



I valori dei carichi riportati sono validi per una velocità di **50 giri/min** ed una durata teorica di **2000 ore**.

Radial loads are valid for **50 r.p.m.** and a theoretical life-time of **2000 hours**.

| MOTORE MOTOR | 50 | 80 | 100 | 125 | 160 | 200 | 250 |
|-----------------|------|------|-----|-----|-----|-----|-----|
| L (mm) | 84,5 | 90,5 | 94 | 99 | 105 | 113 | 122 |

| TIPO TYPE | MOTORE MOTOR cc | RIDUZIONE RATIO Rapp. | CIL. TOT. TOT.DISPL. cc | COPPIA-TORQUE Mt | | | | | | VELOCITA'-SPEED | | POTENZA-POWER | |
|--------------|-----------------------|-----------------------------|-------------------------------|------------------|-------------------|---------------------|-------------------|-----------------------|-------------------|------------------------|-------------------------|--------------------|-------------------|
| | | | | cont. | Δp bar | max int. daNm | Δp bar | picco peak daNm | Δp bar | max r.p.m. n/min | Port. flow Lt/min | max cont. kW | max int. kW |
| GR80-MLR50 | 49 | 5,23 | 256,3 | 47 | 145 | 57 | 175 | 63 | 205 | 115 | 30 | 5,5 | 7 |
| GR80-MLR80 | 83 | | 434,1 | 80 | 145 | 96 | 175 | 106 | 205 | 68 | 30 | 5,5 | 7 |
| GR80-MLR100 | 103 | | 538,7 | 80 | 115 | 100 | 145 | 131 | 205 | 55 | 30 | 5,5 | 7 |
| GR80-MLR125 | 127 | | 664,2 | 80 | 95 | 100 | 120 | 150 | 190 | 45 | 30 | 5,5 | 7 |
| GR80-MLR160 | 162 | | 847,2 | 80 | 75 | 100 | 95 | 150 | 145 | 33 | 30 | 5 | 7 |
| GR80-MLR200 | 205 | | 1072 | 80 | 60 | 100 | 75 | 150 | 115 | 26 | 30 | 5 | 7 |
| GR80-MLR250 | 255 | | 1333 | 80 | 50 | 100 | 60 | 150 | 95 | 21 | 30 | 4,5 | 6 |

| FRENO-BRAKE | |
|--|--|
| Coppia fren. braking torque daNm | Δp apert. opening press. bar |
| 100 | 25 |

NOTE:

SERVIZIO CONTINUO: 8 ore su 24.

SERVIZIO INTERMITTENTE: 5 minuti per ogni ora di lavoro. Nei restanti minuti i valori di pressione e portata non devono superare l'80% dei valori di servizio continuo.

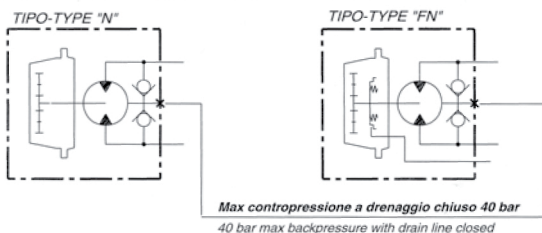
SERVIZIO DI PICCO: 1/2 minuto ogni ora di lavoro, nei restanti minuti i valori di pressione e portata non devono superare il 65% dei valori di servizio continuo.

CONTINUOUS DUTY: 8 hours a day

INTERMITTENT DUTY: 5 minutes per hour. In the remaining time, pressure and flow should not exceed the 80% of the continuous duty values.

PEAK DUTY: 1/2 minute per hour. In the remaining time, pressure and flow should not exceed the 65% of the continuous duty values.

SCHEMA IDRAULICO-Hydraulic diagram

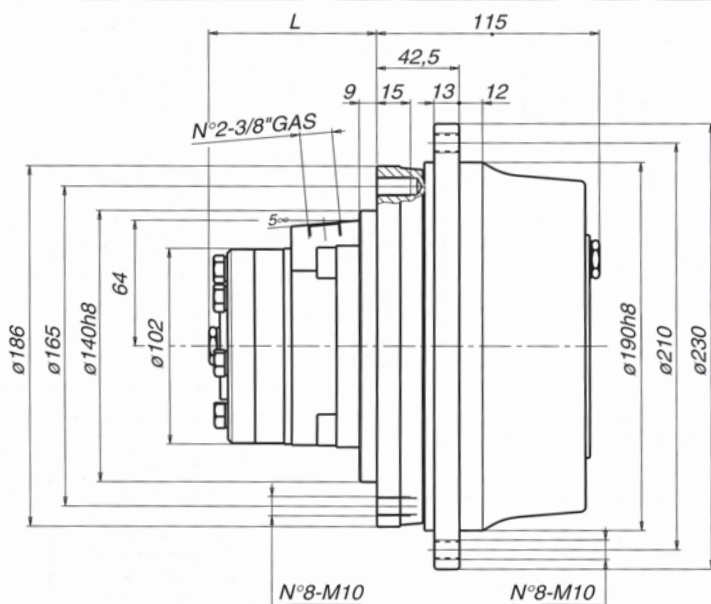


CODICE DI SCELTA - HOW TO ORDER:

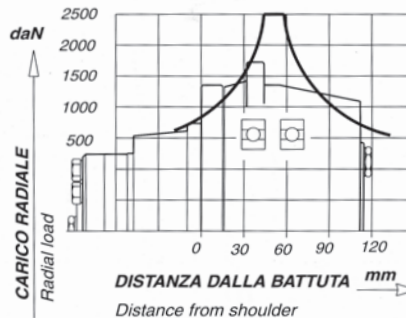
Es.: Riduttore Ruota-Wheel gear **GR80 FN-MLR100**

- FN FRENO NEGATIVO-Negative brake
- N SENZA FRENO-Without brake

CILINDRATA MOTORE
Motor displacement



CARICHI RADIALI - Radial load



I valori dei carichi riportati sono validi per una velocità di 50 giri/min ed una durata teorica di 2000 ore.

Radial loads are valid for 50 r.p.m. and a theoretical life-time of 2000 hours.

| | | | | | | | | | |
|-----------------|------|------|-----|-----|-----|-----|-----|-------|-------|
| MOTORE MOTOR | 50 | 80 | 100 | 125 | 160 | 200 | 250 | 300 | 375 |
| L (mm) | 80,5 | 86,5 | 90 | 95 | 101 | 109 | 118 | 129,5 | 140,5 |

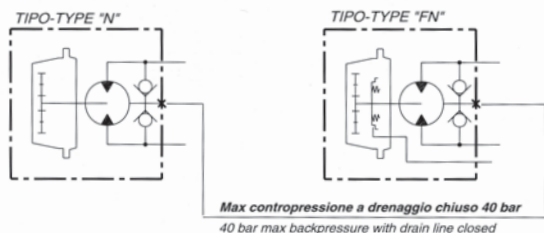
| TIPO TYPE | MOTORE MOTOR cc | RIDUZIONE RATIO Rapp. | CIL. TOT. TOT. DISPL. cc | COPPIA-TORQUE Mt | | | | | | VELOCITA'-SPEED | | POTENZA-POWER | |
|--------------|-----------------------|-----------------------------|--------------------------------|------------------|-------------------|---------------------|-------------------|-----------------------|-------------------|------------------------|-------------------------|--------------------|-------------------|
| | | | | cont. daNm | Δp bar | max int. daNm | Δp bar | picco peak daNm | Δp bar | max r.p.m. n/min | Port. flow Lt/min | max cont. kW | max int. kW |
| GR200-MLR50 | 49 | 6,2 | 303,8 | 56 | 145 | 67 | 175 | 74 | 205 | 98 | 30 | 5,5 | 7 |
| GR200-MLR80 | 83 | | 514,6 | 95 | 145 | 115 | 175 | 125 | 205 | 58 | 30 | 5,5 | 7 |
| GR200-MLR100 | 103 | | 638,6 | 118 | 145 | 142 | 175 | 156 | 205 | 46 | 30 | 5,5 | 7 |
| GR200-MLR125 | 127 | | 787,4 | 145 | 145 | 175 | 175 | 192 | 205 | 38 | 30 | 5,5 | 7 |
| GR200-MLR160 | 162 | | 1004 | 160 | 125 | 210 | 165 | 245 | 205 | 29 | 30 | 5 | 7 |
| GR200-MLR200 | 205 | | 1271 | 160 | 100 | 215 | 135 | 250 | 165 | 23 | 30 | 5 | 7 |
| GR200-MLR250 | 255 | | 1581 | 160 | 80 | 215 | 105 | 250 | 135 | 18 | 30 | 4,5 | 6 |
| GR200-MLR300 | 315 | | 1953 | 160 | 65 | 215 | 85 | 250 | 110 | 15 | 30 | 4 | 5 |
| GR200-MLR375 | 377 | | 2337 | 160 | 55 | 215 | 70 | 250 | 90 | 12 | 30 | 3,5 | 4,5 |

| FRENO-BRAKE | |
|--|--|
| Coppia fren. braking torque daNm | Δp apert. opening press. bar |
| 180 | 30 |

NOTE:
 SERVIZIO CONTINUO: 8 ore su 24.
 SERVIZIO INTERMITTENTE: 5 minuti per ogni ora di lavoro. Nei restanti minuti i valori di pressione e portata non devono superare l'80% dei valori di servizio continuo.
 SERVIZIO DI PICCO: 1/2 minuto ogni ora di lavoro, nei restanti minuti i valori di pressione e portata non devono superare il 65% dei valori di servizio continuo.

CONTINUOUS DUTY: 8 hours a day
 INTERMITTENT DUTY: 5 minutes per hour. In the remaining time, pressure and flow should not exceed the 80% of the continuous duty values.
 PEAK DUTY: 1/2 minute per hour. In the remaining time, pressure and flow should not exceed the 65% of the continuous duty values.

SCHEMA IDRAULICO-Hydraulic diagram



CODICE DI SCELTA - HOW TO ORDER:

Es.: Riduttore Ruota-Wheel gear GR200 FN-D-MLR100

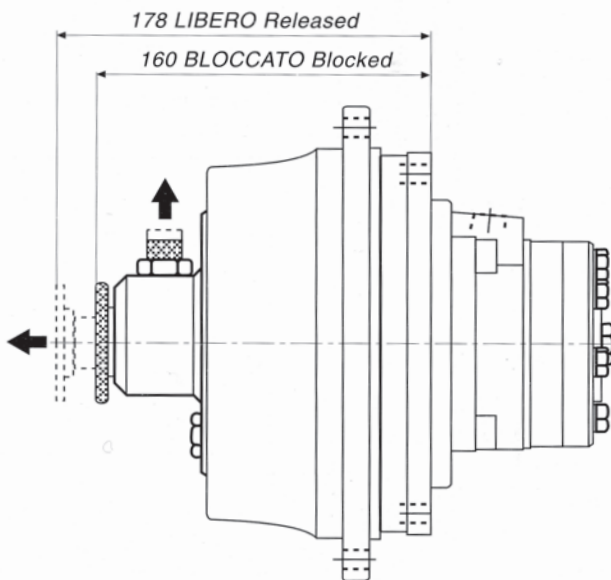


GR 200

DISINNESTO - MECHANICAL RELEASE

I motoriduttori ruota tipo GR200 possono essere dotati a richiesta di un disinnesto per rendere trainabile il veicolo al quale sono installati.

GR200 type wheel gearboxes can be equipped, on request, with a release device to allow the vehicle to be towed.

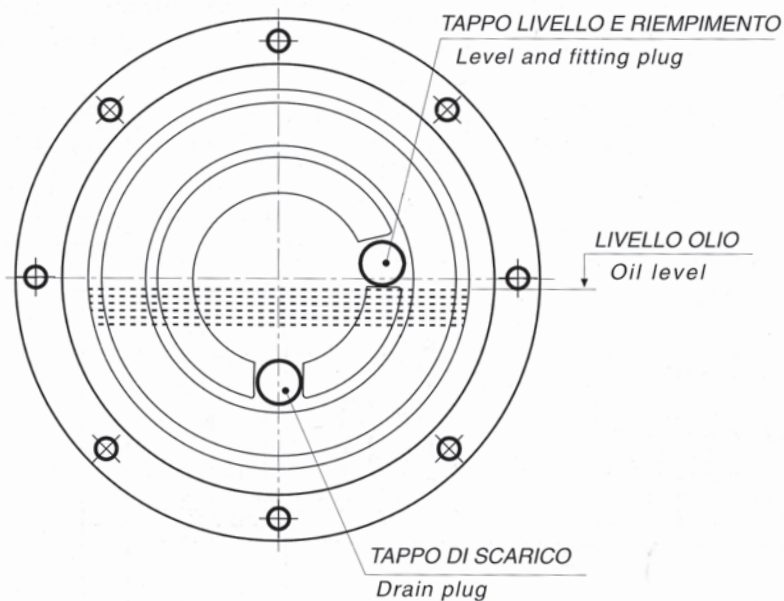


GR 200

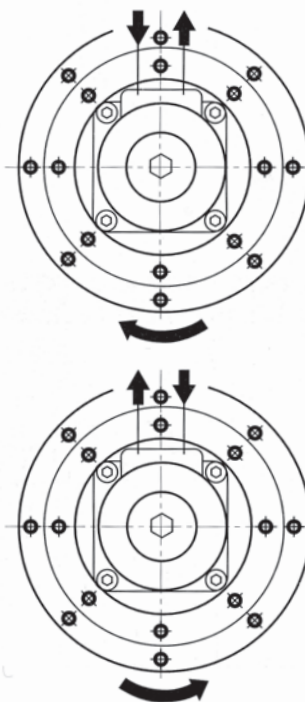
ATTENZIONE: verificare che la velocità di traino con disinnesto LIBERO non comporti al riduttore una velocità di rotazione superiore a 600 giri/min.

WARNING: check that towing speed with free release does not cause to the gearboxes a rotation speed higher than 600 r.p.m.

LIVELLO OLIO - OIL LEVEL



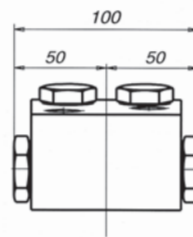
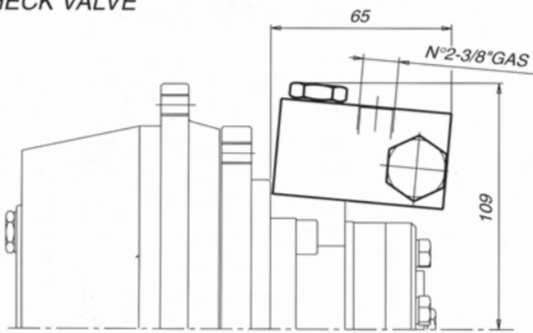
SENSO DI ROTAZIONE - DIRECTION OF ROTATION



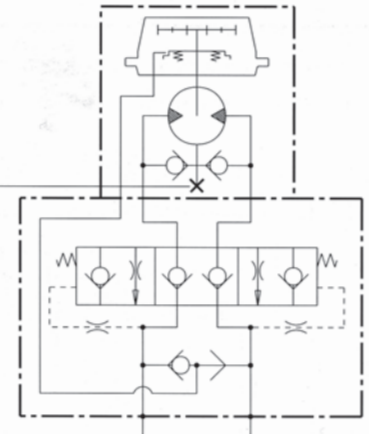
VALVOLE FLANGIABILI AI MOTORIDUTT.RUOTA GR - VALVES TO BE MOUNTED ON GR WHEEL GROUPS

VALVOLA DI CONTROLLO A CASSETTO SERIE
CHECK VALVE

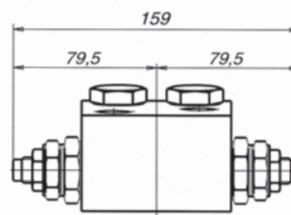
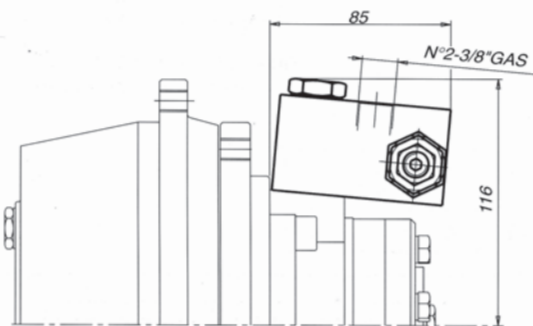
VBC MD



Massima contropressione a
drenaggio chiuso 40 bar
40 bar max backpressure
with drain line closed

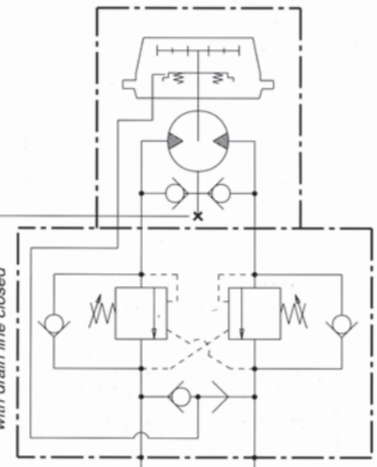


VALVOLA DI CONTROLLO ROTAZIONE CON SELETRICE SERIE VBDSEGR
DUAL OVERCENTER VALVE WITH FLOW SELECTOR



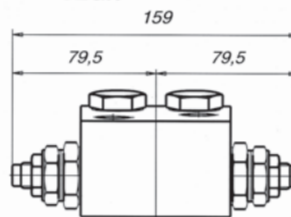
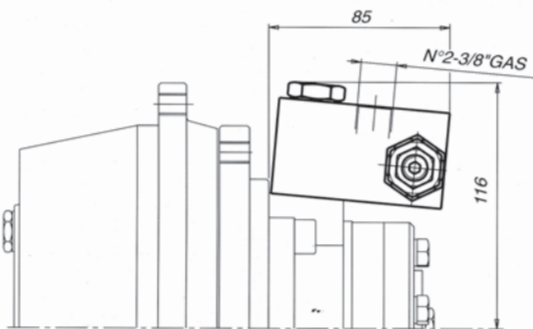
| | |
|---------------------------------|-----|
| Rapp.pilotaggio Pilot ratio | 7:1 |
| Press.max (bar) Max pressure | 215 |
| Port.max (L/min) Max flow | 50 |

Massima contropressione a
drenaggio chiuso 40 bar
40 bar max backpressure
with drain line closed



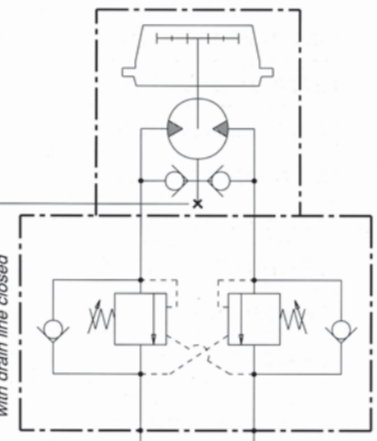
VALVOLA DI CONTROLLO ROTAZIONE SERIE
DUAL OVERCENTER VALVE

VBDSEGR

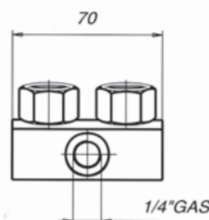
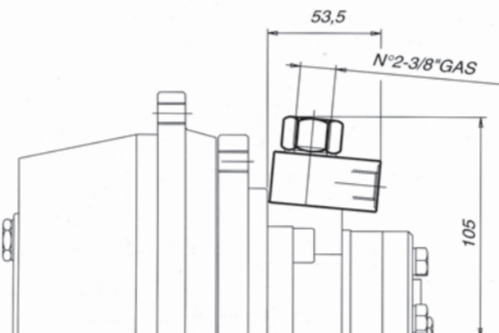


| | |
|---------------------------------|-----|
| Rapp.pilotaggio Pilot ratio | 7:1 |
| Press.max (bar) Max pressure | 215 |
| Port.max (L/min) Max flow | 50 |

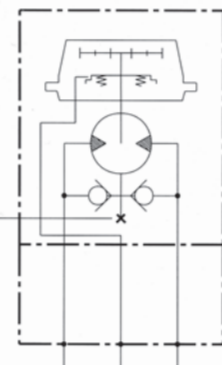
Massima contropressione a
drenaggio chiuso 40 bar
40 bar max backpressure
with drain line closed

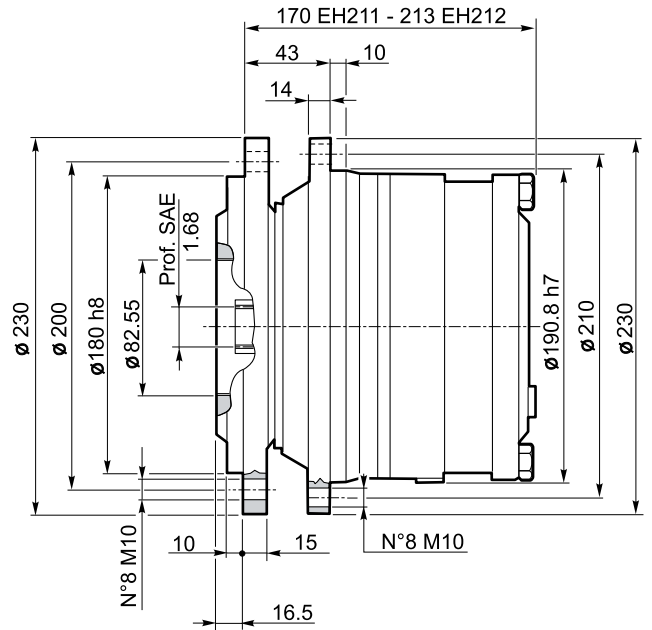
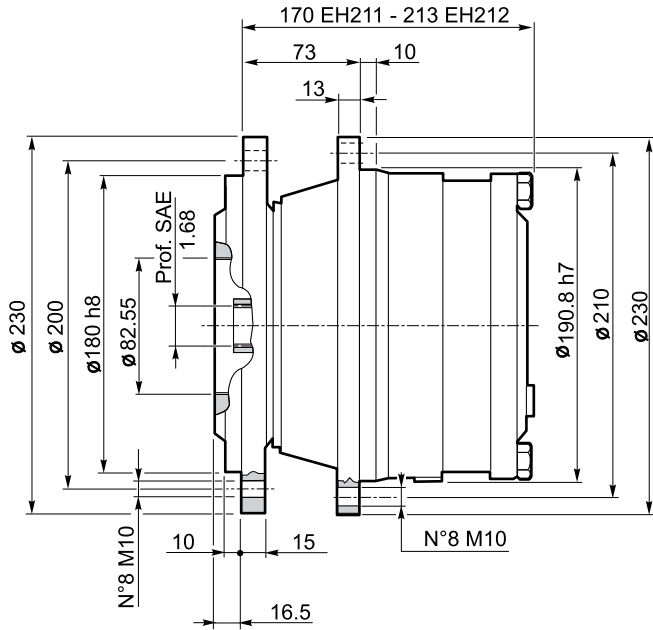


BLOCCHETTO COMANDO FRENO PER CIRCUITO CHIUSO VFCEMD
BRAKE RELEASE VALVE IN CLOSED LOOP TRANSMISSION



Massima contropressione a
drenaggio chiuso 40 bar
40 bar max backpressure
with drain line closed





DATI TECNICI - Technical data:

| TIPO TYPE | N. STADI N. STAGES | RAPPORTI DI RIDUZIONE <i>i</i> RATIOS <i>i</i> |
|--------------|-----------------------|---|
| EH 211 | 1 | 6,2 |
| EH 212 | 2 | 14 17 23 29 |

| | RAPPORTO Ratio | M. int. daNm | M. max daNm |
|---|-------------------|--------------|-------------|
| A | 14 17 23 29 | 210 | 320 |
| C | 6,2 | 130 | 160 |

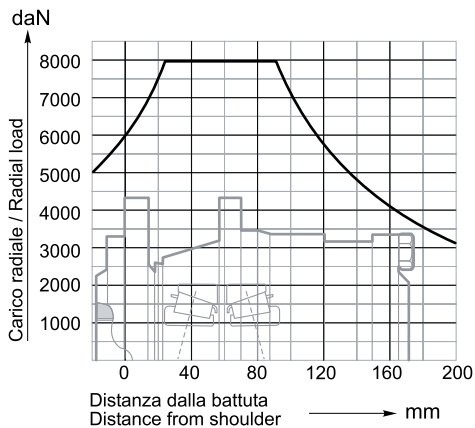
| | | |
|------------|---------------|------|
| n_1 cont | n/min. r.p.m. | 3000 |
| n_1 int | n/min. r.p.m. | 4500 |
| P. n | kW | 25 |
| P_t | kW | 8 |

| FRENO - BRAKE | Δp apert. opening press. |
|---|-------------------------------------|
| $M_f = 20 \text{ daNm} \times \text{riduz.}$ $M_f = 20 \text{ daNm} \times \text{ratio}$ | bar 22 |

CARICHI RADIALI - Radial load

Carichi radiali ed assiali ammissibili sull'albero lento del riduttore validi per una durata di $n2xh \cdot 100.000$

Permissible radial and axial loads on slow shaft for life $n2xh \cdot 100.000$



Coefficiente di correzione k_f
Load corrective factor k_f

| $n2xh$ | k_f |
|-----------|-------|
| 20.000 | 1.7 |
| 40.000 | 1.3 |
| 60.000 | 1.15 |
| 80.000 | 1.06 |
| 200.000 | 0.8 |
| 400.000 | 0.63 |
| 800.000 | 0.5 |
| 1.000.000 | 0.47 |

Validi per $n2 \geq 10 \text{ rpm}$

CODICE DI SCELTA - HOW TO ORDER:

Es.: Riduttore Ruota - Wheel gear - EH 211S - 6.2 - N

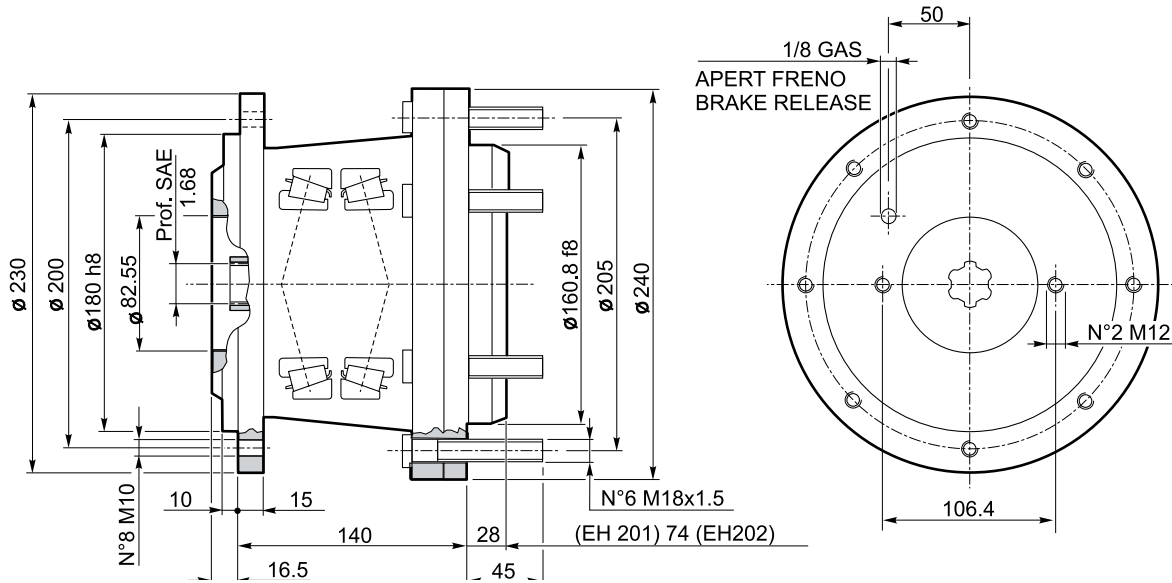
RAPPORTO
Ratio

N SENZA FRENO - Without brake
(FN FRENO NEGATIVO - Negative brake)

Es.: Riduttore Ruota - Wheel gear - EH 212SPD - 23 - FN

RAPPORTO
Ratio

N SENZA FRENO - Without brake
(FN FRENO NEGATIVO - Negative brake)



DATI TECNICI - Technical data:

| TIPO TYPE | N. STADI N. STAGES | RAPPORTI DI RIDUZIONE <i>i</i> RATIOS <i>i</i> |
|--------------|-----------------------|---|
| EH 211 PD | 1 | 6,2 |
| EH 212 PD | 2 | 14 17 23 29 |

| | RAPPORTO Ratio | M. int. daNm | M. max daNm |
|---|-------------------|--------------|-------------|
| A | 14 17 23 29 | 210 | 320 |
| C | 6,2 | 130 | 160 |

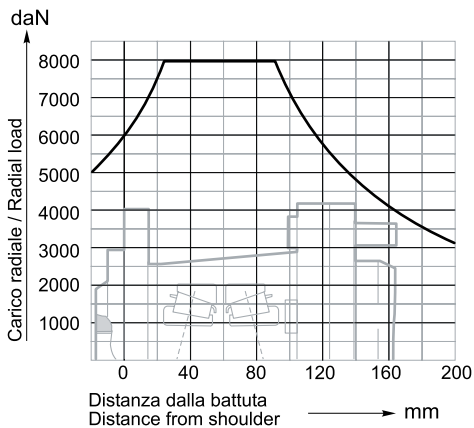
| | | |
|----------------|---------------|------|
| n_1 cont | n/min. r.p.m. | 3000 |
| n_1 int | n/min. r.p.m. | 4500 |
| P. n | kW | 25 |
| P _t | kW | 8 |

| FRENO - BRAKE | Δp apert. opening press. |
|--|-------------------------------------|
| $M_f = 20 \text{ daNm} \times \text{riduz.}$ | bar |
| $M_f = 20 \text{ daNm} \times \text{ratio}$ | 22 |

CARICHI RADIALI - Radial load

Carichi radiali ed assiali ammissibili sull'albero lento del riduttore validi per una durata di $n2xh \cdot 100.000$

Permissible radial and axial loads on slow shaft for life $n2xh - 100.000$



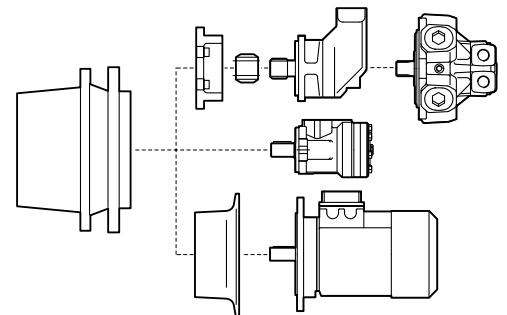
Coefficiente di correzione kf
Load corrective factor kf

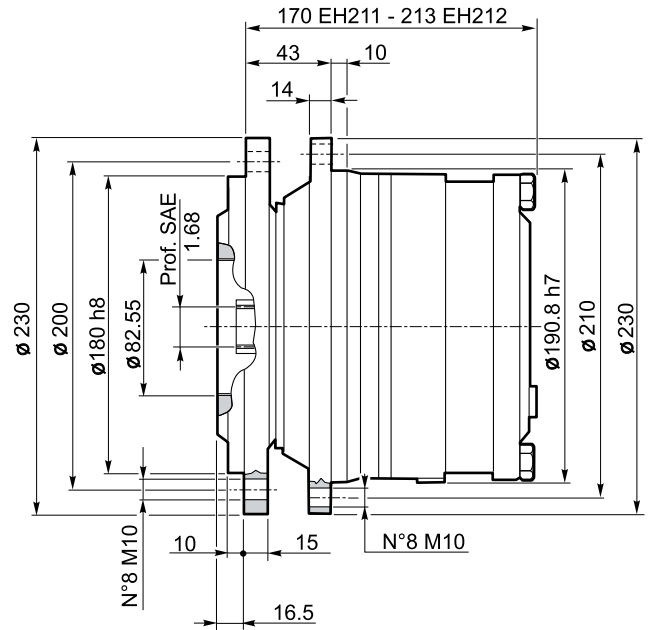
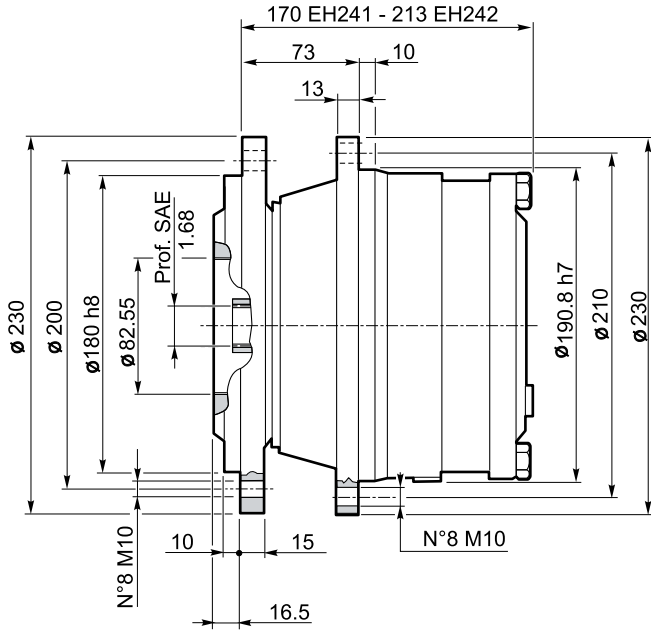
| n2xh | kf |
|-----------|------|
| 20.000 | 1.7 |
| 40.000 | 1.3 |
| 60.000 | 1.15 |
| 80.000 | 1.06 |
| 200.000 | 0.8 |
| 400.000 | 0.63 |
| 800.000 | 0.5 |
| 1.000.000 | 0.47 |

Validi per $n2 \geq 10 \text{ rpm}$

COMBINAZIONI POSS. IN ENTRATA AL RIDUTTORE

Input layout for possible combinations





DATI TECNICI - Technical data:

| TIPO TYPE | N. STADI N. STAGES | RAPPORTI DI RIDUZIONE <i>i</i> RATIOS <i>i</i> |
|--------------|-----------------------|---|
| EH 242 | 2 | 12,3 - 15,3 - 18 - 21 - 24,6 - 31 |

| | RAPPORTO Ratio | M. int. daNm | M. max daNm |
|---|-------------------|--------------|-------------|
| A | 12,3 - 15,3 - 21 | 300 | 360 |
| B | 18 - 24,5 - 31 | 270 | 340 |

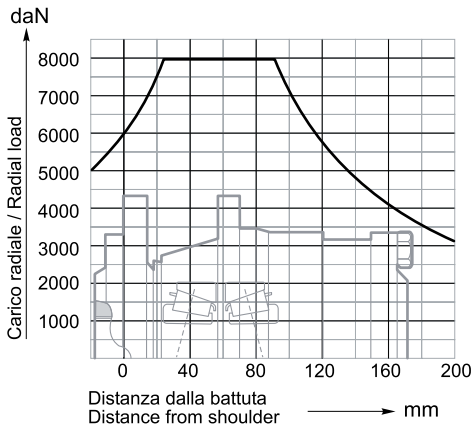
| | | |
|------------|---------------|------|
| n_1 cont | n/min. r.p.m. | 3000 |
| n_1 int | n/min. r.p.m. | 4500 |
| P. n | kW | 25 |
| P_t | kW | 8 |

| FRENO - BRAKE | Δp apert. opening press. |
|---|-------------------------------------|
| $M_i = 20 \text{ daNm} \times \text{riduz.}$ $M_i = 20 \text{ daNm} \times \text{ratio}$ | bar 22 |

CARICHI RADIALI - Radial load

Carichi radiali ed assiali ammissibili sull'albero lento del riduttore validi per una durata di $n2xh \cdot 100.000$

Permissible radial and axial loads on slow shaft for life $n2xh - 100.000$



Coefficiente di correzione kf
Load corrective factor kf

| n2xh | kf |
|-----------|------|
| 20.000 | 1.7 |
| 40.000 | 1.3 |
| 60.000 | 1.15 |
| 80.000 | 1.06 |
| 200.000 | 0.8 |
| 400.000 | 0.63 |
| 800.000 | 0.5 |
| 1.000.000 | 0.47 |

Validi per $n2 \geq 10 \text{ rpm}$

CODICE DI SCELTA - HOW TO ORDER:

Es.: Riduttore Ruota - Wheel gear - EH 241S - 6.2 - N

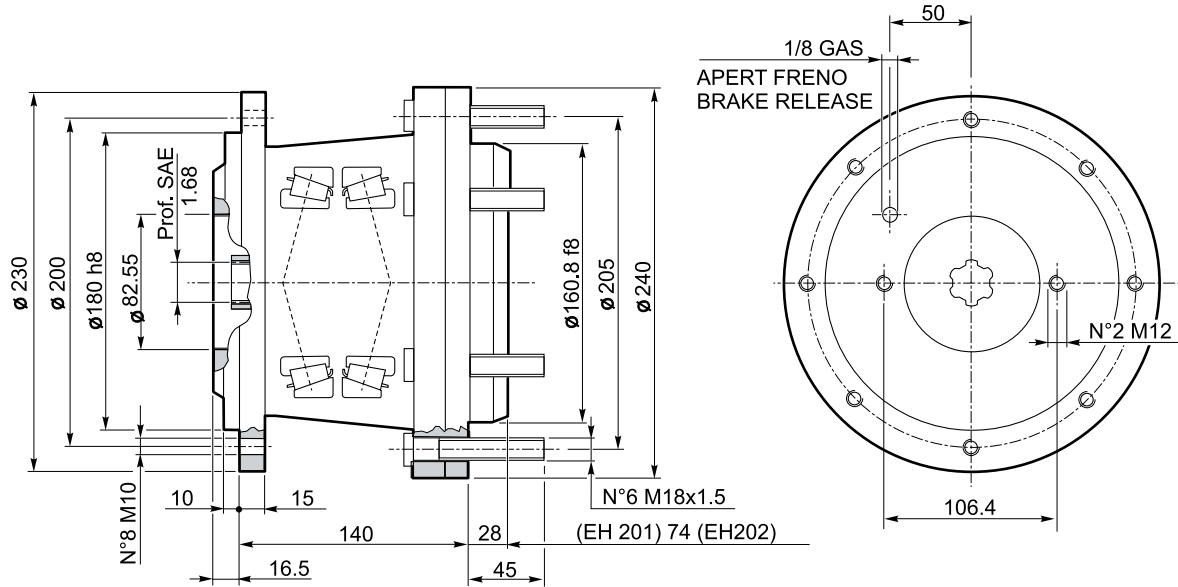
RAPPORTO
Ratio

N SENZA FRENO - Without brake
(FN FRENO NEGATIVO - Negative brake)

Es.: Riduttore Ruota - Wheel gear - EH 242SPD - 23 - FN

RAPPORTO
Ratio

N SENZA FRENO - Without brake
(FN FRENO NEGATIVO - Negative brake)



DATI TECNICI - Technical data:

| TIPO TYPE | N. STADI N. STAGES | RAPPORTI DI RIDUZIONE <i>i</i> RATIOS <i>i</i> |
|--------------|-----------------------|---|
| EH 242 PD | 2 | 12,3 - 15,3 - 18 - 21 - 24,6 - 31 |

| | RAPPORTO Ratio | M. int. daNm | M. max daNm |
|---|-------------------|--------------|-------------|
| A | 12,3 - 15,3 - 21 | 300 | 360 |
| B | 18 - 24,5 - 31 | 270 | 340 |

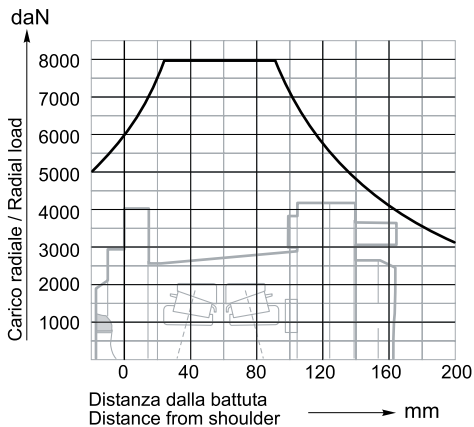
| | | |
|------------|---------------|------|
| n_1 cont | n/min. r.p.m. | 3000 |
| n_1 int | n/min. r.p.m. | 4500 |
| P. n | kW | 25 |
| P_t | kW | 8 |

| FRENO - BRAKE | Δp apert. opening press. |
|---|-------------------------------------|
| $M_f = 20 \text{ daNm} \times \text{riduz.}$ $M_t = 20 \text{ daNm} \times \text{ratio}$ | bar 22 |

CARICHI RADIALI - Radial load

Carichi radiali ed assiali ammissibili sull'albero lento del riduttore validi per una durata di $n2xh \cdot 100.000$

Permissible radial and axial loads on slow shaft for life $n2xh - 100.000$



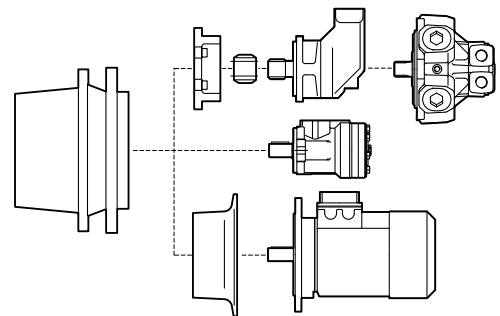
Coefficiente di correzione k_f
Load corrective factor k_f

| $n2xh$ | k_f |
|-----------|-------|
| 20.000 | 1.7 |
| 40.000 | 1.3 |
| 60.000 | 1.15 |
| 80.000 | 1.06 |
| 200.000 | 0.8 |
| 400.000 | 0.63 |
| 800.000 | 0.5 |
| 1.000.000 | 0.47 |

Validi per $n2 \geq 10 \text{ rpm}$

**COMBINAZIONI POSS. IN ENTRATA
AL RIDUTTORE**

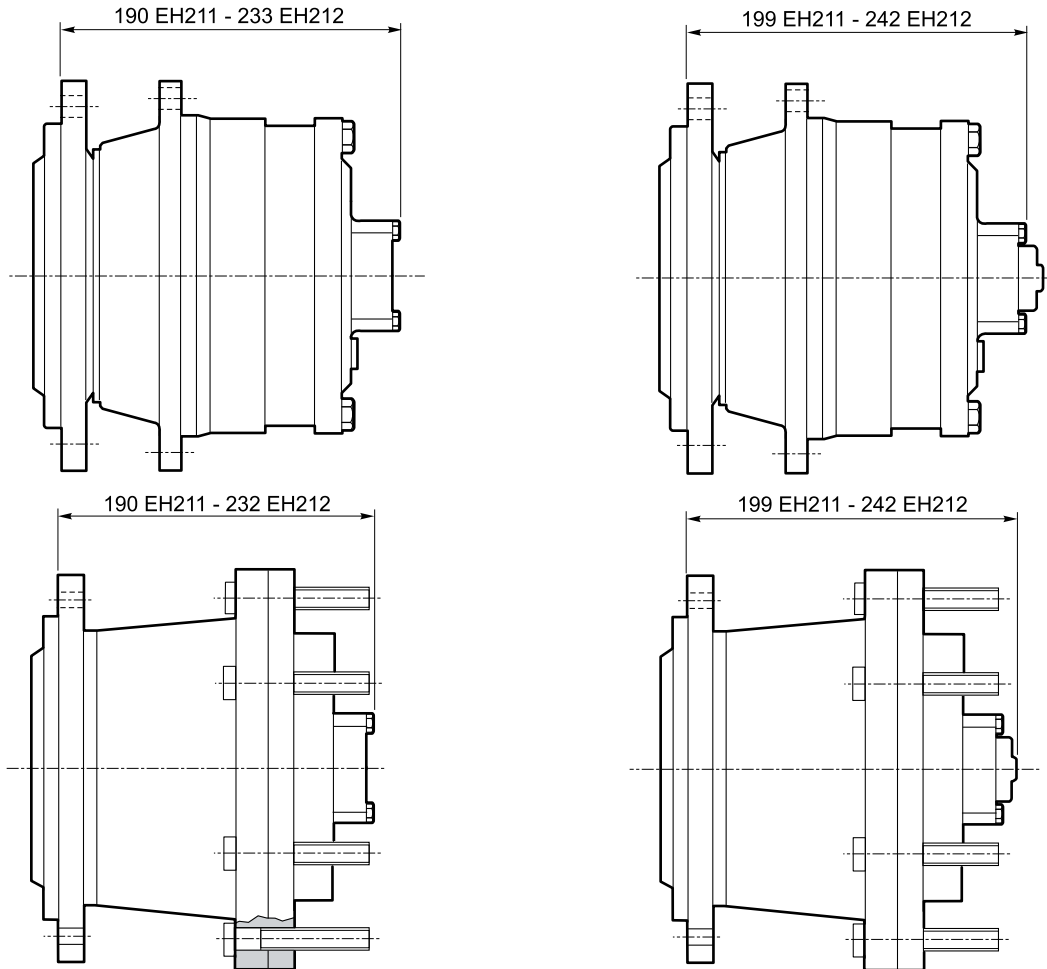
Input layout for possible combinations



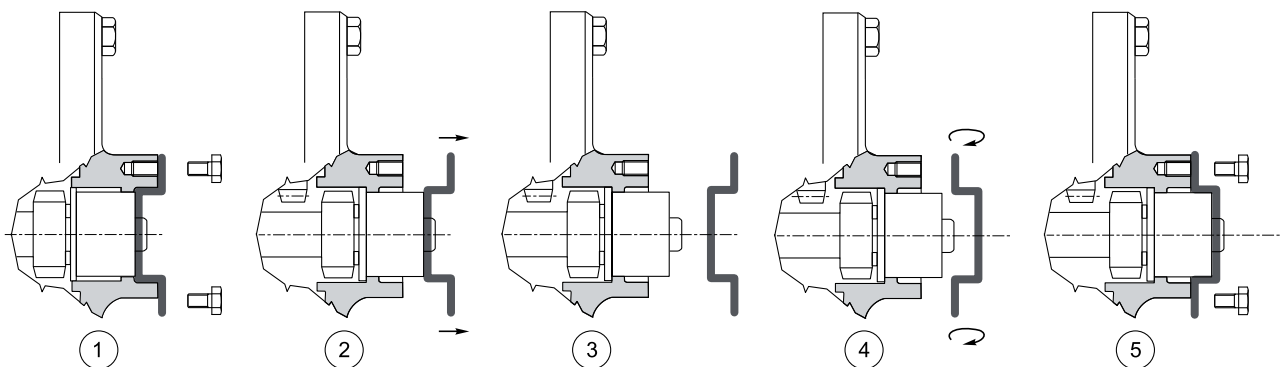
I riduttori ruota EH possono essere dotati di disinnesto meccanico per rendere trainabile il veicolo sul quale sono installati
 EH wheel gearboxes can be equipped with a release device to allow the vehicle to be towed

DIMENSIONI - Dimensions

BLOCCATO - LIBERO
 ENGAGED - DISENGAGED

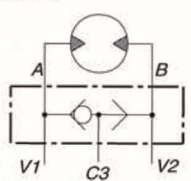
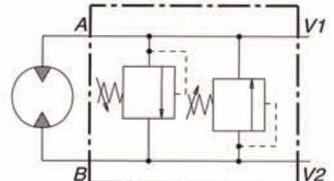
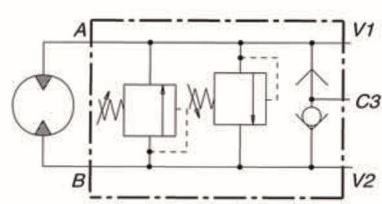
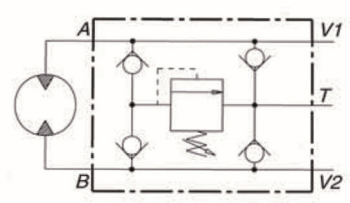


Come disinnescare il riduttore ruota EH - How to disengage the wheel drive EH



Togliere le viti di fissaggio (pos. 1) disinnescare (pos. 2) estrarre il coperchiello, ruotarlo di 180° e riinsertirlo (pos. 3 - 4 - 5), riavvitare la vite di fissaggio (pos. 5)
 Take off the fixing screws (pos. 1), disengage (pos. 2), take off the cover, tur the cover of 180° or upset it, and mount again (pos. 3 - 4 - 5), tighten again the fixing screws (pos. 5)

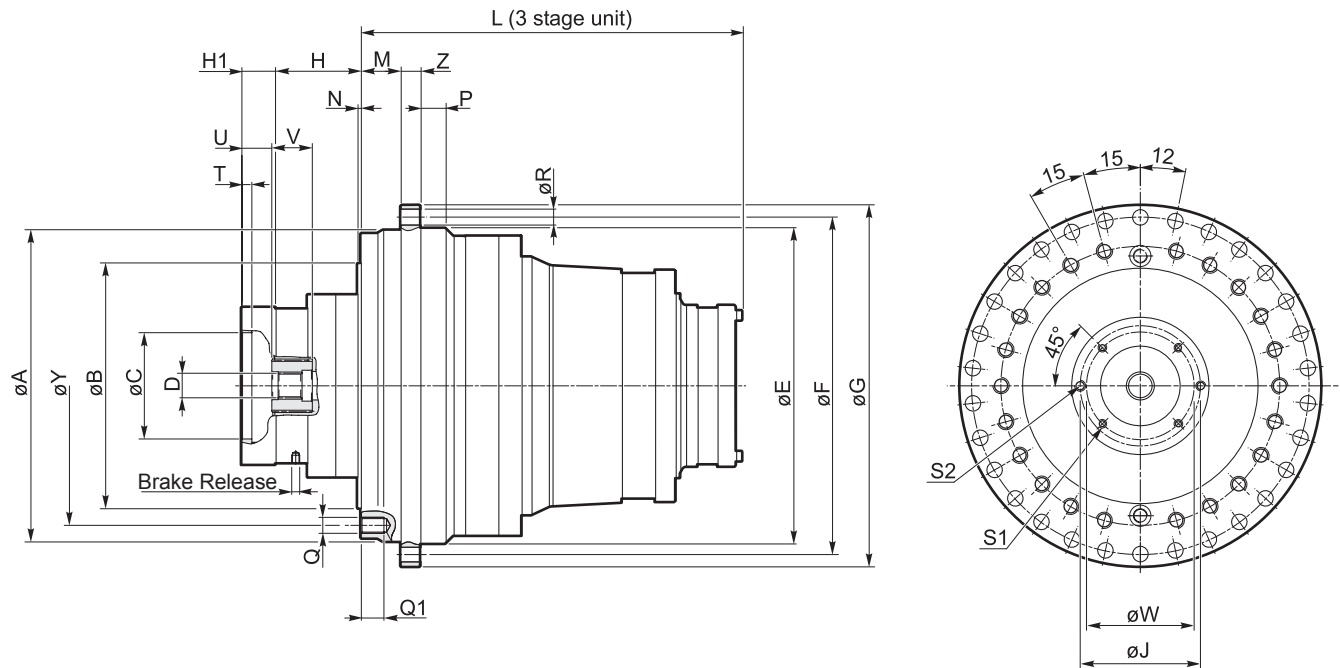
VALVOLE FLANGIABILI AI MOTORI ORBITALI - Valves to be mounted on orbit motors

| SCHEMA IDRAULICO <i>Hydraulic circuit</i> | DENOMINAZIONE <i>Description</i> | MOTORI <i>Motors</i> | PORTATA MAX. <i>Max. flow</i> | TARATURA <i>Setting</i> | ATTACCHI <i>Ports</i> | | |
|--|-------------------------------------|-------------------------|----------------------------------|----------------------------|--------------------------|-------|-------|
| | | | | | V1-V2 | C3 | T |
| <p>Valvola selettoria</p>  <p><i>Shuttle valve</i></p> | USE | OMP OMR | | | 1/2"G | 1/4"G | |
| <p>Valvola di controllo pressione doppia</p>  <p><i>Dual relief valve</i></p> | USD | OMP OMR | 50 l/min | 50 - 215 bar | 1/2"G | | |
| <p>Valvola di controllo pressione doppia con selettoria</p>  <p><i>Dual relief and shuttle valve</i></p> | USDSE | OMP OMR | 50 l/min | 50 - 220 bar | 1/2"G | 1/4"G | |
| <p>Valvola di controllo pressione con dispositivo anticavitazione</p>  <p><i>Relief valve and anticavitation valve</i></p> | UAACC | OMP OMR | 50 l/min | 30 - 220 bar | 1/2"G | | 1/2"G |

VALVOLE FLANGIABILI AI MOTORI ORBITALI - Valves to be mounted on orbit motors

| | SCHEMA IDRAULICO <i>Hydraulic circuit</i> | DENOMINAZIONE <i>Description</i> | MOTORI <i>Motors</i> | PORTATA MAX. <i>Max. flow</i> | TARATURA Setting | PILOTAGGIO <i>Pilot</i> standard | ATTACCHI <i>Ports</i> | | |
|--|--|-------------------------------------|-------------------------|-------------------------------------|--------------------------------------|--|--------------------------|-------|-------|
| | | | | | | | V1-V2 | C3 | T |
| VALVOLE DI CONTROLLO ROTAZIONE BILANCIATE (Vcrb) Overcenter | <p>Vcrb doppia, di blocco pilotata con selettice</p> <p><i>Dual pilot assisted overcenter valve</i></p> | VBDSE/45 | OMP OMR | 35 l/min | 30 - 220 bar | 4:1 | 1/2"G | 1/4"G | |
| | | VBDSE/50 | OMP OMR | 50 l/min | 30 - 220 bar | 4:1 | 1/2"G | 1/4"G | |
| | | VBDSE/60 | OMP OMR | 50 l/min | 30 - 220 bar | 4:1 | 1/2"G | 1/4"G | |
| | <p>Vcrb doppia, di blocco pilotata con selett. e antiurto doppia</p> <p><i>Dual pilot assisted over center and antishock valve with brake release port</i></p> | VBDSDSE/50 | OMS | 35 l/min | OC: 30 - 220 bar MP: 30 - 175 bar | 4:1 | 1/2"G | 1/4"G | |
| | | VBDSDSE/60 | OMP OMR | 60 l/min | OC: 30 - 220 bar MP: 30 - 215 bar | 4:1 | 1/2"G | 1/4"G | |
| | <p>Vcrb doppia, di blocco pilotata con selett., antiurto doppia e dispositivo anticavit.</p> <p><i>Dual pilot assisted overcenter and antishock valve with brake release port and anticavitation device</i></p> | VBDSDACSE | OMP OMR | 35 l/min | OC: 30 - 220 bar MP: 30 - 175 bar | 4:1 | 1/2"G | 1/4"G | 3/8"G |

RIDUTTORI EPICICLOIDALI WD PER ARGANO WD PLANETARY WINCH DRIVES



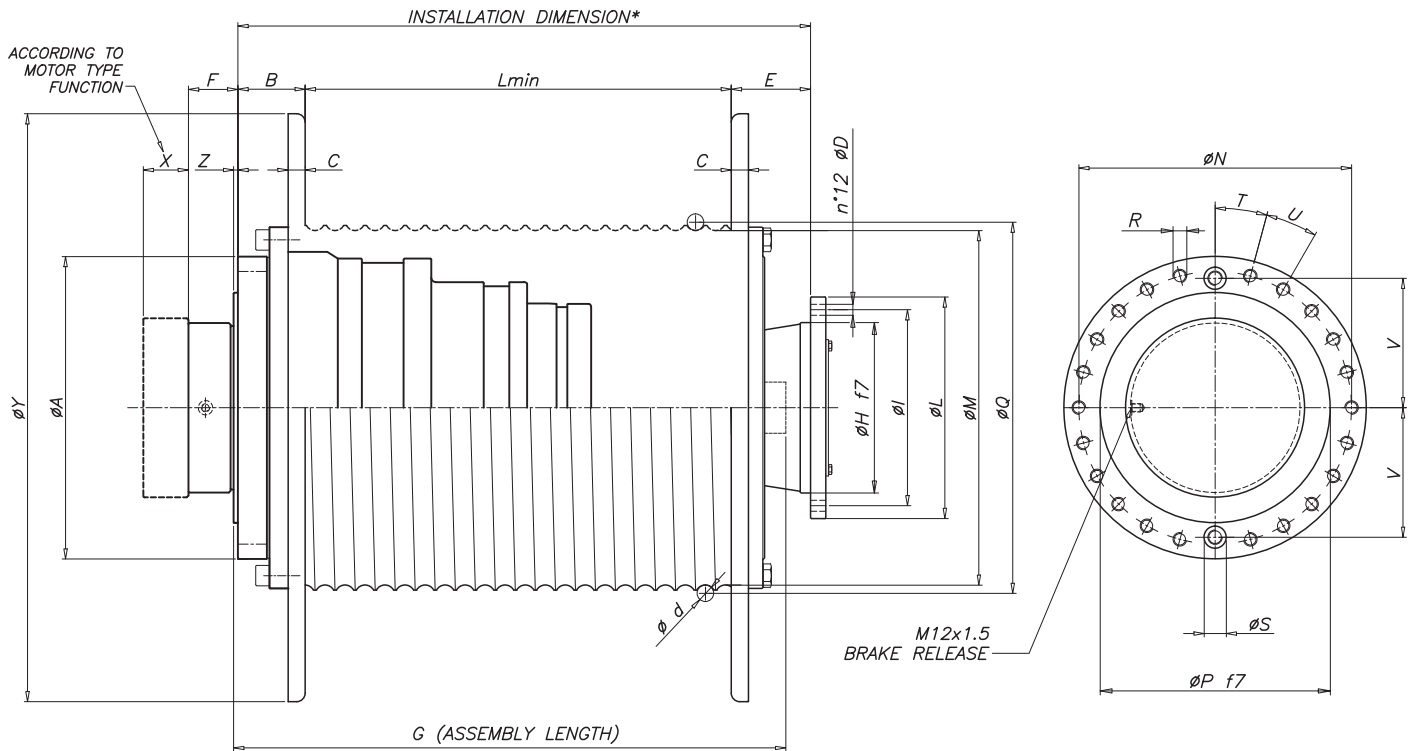
Dimensioni generali - General Dimensions

| Tipo / Type | A | B | E | F | G | H | L | M | N | P | Q | Q1 | R | Y | Z |
|----------------|-----|--------|--------|-----|-----|-------|-------|----|---|----|----------|----|-------------------------|-----|----|
| WD 1023 | 290 | 200 f7 | 295 f7 | 320 | 348 | 99 | 383 | 40 | 5 | 41 | M16 (6) | 24 | $\varnothing 17$ (18) | 255 | 20 |
| WD 1523 | 328 | 230 f7 | 335 f7 | 368 | 398 | 68 | 414 | 37 | 5 | 58 | M16 (22) | 24 | $\varnothing 17$ (24) | 280 | 23 |
| WD 2003 | 355 | 270 f7 | 366 f7 | 394 | 424 | 57,5 | 424.5 | 37 | 5 | 45 | M16 (22) | 24 | $\varnothing 17$ (24) | 320 | 23 |
| WD 2523 | 394 | 300 f7 | 402 f7 | 424 | 450 | 81 | 626 | 50 | 5 | 53 | M20 (22) | 30 | $\varnothing 14.5$ (36) | 350 | 25 |
| WD 3003 | 432 | 330 f7 | 436 f7 | 465 | 495 | 87,5 | 477 | 50 | 5 | 60 | M20 (22) | 30 | $\varnothing 19$ (30) | 390 | 25 |
| WD 4803 | 470 | 355 f7 | 476 f7 | 508 | 545 | 128 | 575 | 60 | 5 | 38 | M24 (22) | 34 | $\varnothing 24$ (24) | 420 | 30 |
| WD 8003 | 530 | 430 f7 | 544 f7 | 578 | 618 | 129,5 | 688 | 55 | 5 | 45 | M24 (22) | 36 | $\varnothing 24$ (30) | 480 | 35 |

Dimensioni ingressi - Input Dimensions

| | C | D | H1 | T | U | V | W | S1 | J | S2 |
|--------------------|----------|-------------|----|----|----|----|-----|---------|-----|---------|
| Input SAE B | 101.6 H8 | DP16/32 Z13 | 20 | 10 | 7 | 37 | 127 | n°4 M12 | 146 | n°2 M14 |
| Input SAE C | 127 F8 | DP12/24 Z14 | 30 | 15 | 16 | 56 | 162 | n°4 M12 | 181 | n°2 M16 |
| Input SAE D | 152.4 F8 | DP8/16 Z13 | 40 | 15 | 28 | 75 | 229 | n°4 M20 | / | / |

RIDUTTORI EPICICLOIDALI WD PER ARGANO WD PLANETARY WINCH DRIVES



Secondo le norme FEM, classe M5 - T2 - T5 According to FEM rules, class M5 - T2 - T5

Dimensioni generali WDD - WDD General Dimensions

| Tipo / Type | A | B | C | D | E | F | G | H | I | L | M | N | P | Q | R | S | T | U | V | Lmin | Y | Z |
|-----------------|-----|-------|----|------|-------|------|-------|-----|-----|-----|-----|-----|-----|-----|----------|----|-----|-----|-------|------|-----|---|
| WDD A75 | 285 | 74 | 15 | 10.5 | 85 | 99 | 451 | 175 | 200 | 225 | 341 | 255 | 200 | 359 | N°16-M16 | 32 | 20° | 20° | 117 | 320 | 560 | 5 |
| WDD B100 | 315 | 79 | 20 | 12.5 | 93 | 68 | 494 | 200 | 230 | 260 | 392 | 280 | 230 | 412 | N°22-M16 | 32 | 15° | 15° | 132 | 350 | 630 | 5 |
| WDD C130 | 355 | 79 | 20 | 13 | 93 | 58 | 514 | 200 | 230 | 260 | 416 | 320 | 270 | 438 | N°22-M16 | 32 | 15° | 15° | 152 | 370 | 690 | 5 |
| WDD D155 | 385 | 94 | 20 | 17 | 110 | 81 | 554 | 230 | 260 | 290 | 443 | 350 | 300 | 467 | N°22-M20 | 35 | 15° | 15° | 168 | 385 | 720 | 5 |
| WDD E190 | 425 | 99 | 25 | 21 | 135 | 87.5 | 592.5 | 260 | 310 | 360 | 490 | 390 | 330 | 516 | N°22-M20 | 35 | 15° | 15° | 184 | 390 | 790 | 5 |
| WDD F230 | 460 | 118.5 | 30 | 21 | 139.5 | 60 | 678 | 260 | 310 | 360 | 540 | 420 | 355 | 568 | N°22-M24 | 35 | 15° | 15° | 195.5 | 465 | 865 | 5 |
| WDD G300 | 530 | 118.5 | 30 | 21 | 147 | 61 | 780.5 | 300 | 350 | 400 | 610 | 480 | 430 | 640 | N°22-M24 | 35 | 15° | 15° | 233 | 560 | 960 | 5 |

* Installation dimension = B + Lmin. + E

Prestazioni WDD - WDD Performances

| Tipo / Type | Typical line pull on first layer [daN] | ϕd (suggested cable) [mm] |
|-----------------|---|------------------------------------|
| WDD A75 | 7500 | 18 |
| WDD B100 | 10000 | 20 |
| WDD C130 | 13000 | 22 |
| WDD D155 | 15500 | 24 |
| WDD E190 | 19000 | 26 |
| WDD F230 | 23000 | 28 |
| WDD G300 | 30000 | 30 |

RIDUTTORI EPICICLOIDALI WD PER ARGANO WD PLANETARY WINCH DRIVES

Prestazioni WD WD Performances

Coppie nominali secondo FEM 1.001 sezione 1 - 3ª edizione-1998
Nominal torques according to FEM 1.001 part 1 - 3rd edition-1998

| Size | i_e | $T_{2\text{ fem}}$ [Nm] | $T_{d\text{-max}}$ [Nm] | $T_{s\text{-max}}$ [Nm] | $n_{1\text{-max}}$ [RPM] |
|----------------|--------|----------------------------|----------------------------|----------------------------|-----------------------------|
| WD 1023 | 52.83 | 18100 | 26900 | 33400 | 3100 |
| | 62.55 | 18100 | 26900 | 33400 | 3100 |
| | 74.03 | 18100 | 26900 | 33400 | 3100 |
| | 78.70 | 18100 | 26900 | 33400 | 3100 |
| | 93.09 | 18100 | 26900 | 33400 | 3100 |
| | 108.45 | 18100 | 26900 | 33400 | 3100 |
| | 111.15 | 18100 | 26900 | 33400 | 3100 |
| | 117.00 | 18100 | 26900 | 33400 | 3100 |
| | 131.40 | 18100 | 26900 | 33400 | 3100 |
| | 136.27 | 18100 | 26900 | 33400 | 3100 |
| 165.05 | 18100 | 26900 | 33400 | 3100 | |
| WD 1523 | 51.46 | 26100 | 43200 | 60000 | 3100 |
| | 60.16 | 26200 | 43200 | 60000 | 3100 |
| | 71.21 | 26300 | 43200 | 60000 | 3100 |
| | 74.11 | 26300 | 43200 | 60000 | 3100 |
| | 76.71 | 26300 | 43200 | 60000 | 3100 |
| | 87.67 | 26300 | 43200 | 60000 | 3100 |
| | 89.61 | 26350 | 43200 | 60000 | 3100 |
| | 104.33 | 26350 | 43200 | 60000 | 3100 |
| | 108.29 | 24900 | 43200 | 60000 | 3100 |
| | 110.27 | 26400 | 43200 | 60000 | 3100 |
| 126.42 | 26400 | 43200 | 60000 | 3100 | |
| 128.35 | 26400 | 43200 | 60000 | 3100 | |
| 155.48 | 26500 | 43200 | 60000 | 3100 | |
| WD 2003 | 48.16 | 33800 | 57900 | 80000 | 3100 |
| | 56.31 | 33500 | 57900 | 80000 | 3100 |
| | 57.03 | 34000 | 57900 | 80000 | 3100 |
| | 66.66 | 33800 | 57900 | 80000 | 3100 |
| | 69.38 | 33000 | 57900 | 80000 | 3100 |
| | 71.82 | 34100 | 57900 | 80000 | 3100 |
| | 82.09 | 33000 | 57900 | 80000 | 3100 |
| | 83.90 | 33650 | 57900 | 80000 | 3100 |
| | 97.70 | 33650 | 57900 | 80000 | 3100 |
| | 103.26 | 33000 | 57900 | 80000 | 3100 |
| 120.21 | 33000 | 57900 | 80000 | 3100 | |
| 145.62 | 33000 | 57900 | 80000 | 3100 | |
| WD 2523 | 50.29 | 44050 | 72800 | 105000 | 3100 |
| | 58.82 | 44200 | 72800 | 105000 | 3100 |
| | 59.55 | 44200 | 72800 | 105000 | 3100 |
| | 69.62 | 44300 | 72800 | 105000 | 3100 |
| | 72.44 | 44300 | 72800 | 105000 | 3100 |
| | 75.0 | 44350 | 72800 | 105000 | 3100 |
| | 85.70 | 44350 | 72800 | 105000 | 3100 |
| | 87.34 | 44450 | 72800 | 105000 | 3100 |
| | 97.99 | 42450 | 72800 | 105000 | 3100 |
| | 102.02 | 44500 | 72800 | 105000 | 3100 |
| | 105.86 | 44500 | 72800 | 105000 | 3100 |
| | 107.79 | 44500 | 72800 | 105000 | 3100 |
| 123.62 | 44500 | 72800 | 105000 | 3100 | |
| 125.48 | 44600 | 72800 | 105000 | 3100 | |
| 152.00 | 44600 | 72800 | 105000 | 3100 | |

RIDUTTORI EPICICLOIDALI WD PER ARGANO WD PLANETARY WINCH DRIVES

Prestazioni WD WD Performances

Coppie nominali secondo FEM 1.001 sezione 1 - 3ª edizione-1998
Nominal torques according to FEM 1.001 part 1 - 3rd edition-1998

| Size | i_e | $T_{2\text{fem}}$ [Nm] | $T_{d\text{-max}}$ [Nm] | $T_{s\text{-max}}$ [Nm] | $n_{1\text{-max}}$ [RPM] |
|---------|---------|---------------------------|----------------------------|----------------------------|-----------------------------|
| WD 3003 | 49.75 | 48200 | 94700 | 136500 | 2500 |
| | 58.19 | 48250 | 94700 | 136500 | 2500 |
| | 68.02 | 47620 | 94700 | 133700 | 2500 |
| | 71.66 | 48200 | 94700 | 136500 | 2500 |
| | 81.97 | 48200 | 94700 | 136500 | 2500 |
| | 83.74 | 48250 | 94700 | 133700 | 2500 |
| | 95.75 | 47900 | 94700 | 133700 | 2500 |
| | 96.70 | 48400 | 94700 | 136500 | 2500 |
| | 103.04 | 46800 | 90600 | 121200 | 2500 |
| | 112.94 | 47600 | 94700 | 133700 | 2500 |
| | 117.79 | 46800 | 90600 | 121200 | 2500 |
| | 138.88 | 46800 | 90600 | 121200 | 2500 |
| | WD 4803 | 51.99 | 69850 | 123300 | 160000 |
| 61.55 | | 69350 | 123300 | 160000 | 3100 |
| 71.58 | | 83750 | 123300 | 168500 | 3100 |
| 77.49 | | 67500 | 123300 | 160000 | 3100 |
| 84.68 | | 84000 | 123300 | 168500 | 3100 |
| 90.26 | | 66650 | 123300 | 160000 | 3100 |
| 106.51 | | 84100 | 123300 | 168500 | 3100 |
| 109.39 | | 52000 | 103200 | 160000 | 3100 |
| 123.99 | | 84000 | 123300 | 168500 | 3100 |
| 150.20 | | 70000 | 123300 | 168500 | 3100 |
| WD 8003 | 56.0 | 96800 | 197200 | 312000 | 2500 |
| | 65.45 | 96000 | 197200 | 312000 | 2500 |
| | 73.1 | 118000 | 197200 | 312000 | 2500 |
| | 80.60 | 94450 | 197200 | 312000 | 2500 |
| | 85.4 | 115800 | 197200 | 312000 | 2500 |
| | 92.17 | 93100 | 197200 | 298100 | 2500 |
| | 105.08 | 113500 | 197200 | 312000 | 2500 |
| | 108.71 | 91300 | 184300 | 304500 | 2500 |
| | 120.12 | 112200 | 197200 | 312000 | 2500 |
| | 126.50 | 96500 | 174500 | 221600 | 2500 |
| | 141.63 | 110300 | 197200 | 312000 | 2500 |
| 170.43 | 96700 | 174500 | 221600 | 2500 | |

Peso e olio - Weight and Oil Quantity

| | Weight [kg] | Oil Quantity [litri - liters] |
|---------|-------------|-------------------------------|
| WD 1023 | 150 | 3.5 |
| WD 1523 | 200 | 4.5 |
| WD 2003 | 225 | 5 |
| WD 2523 | 275 | 6 |
| WD 3003 | 350 | 8 |
| WD 4803 | 455 | 10 |
| WD 8003 | 660 | 15 |

RIDUTTORI EPICICLOIDALI WD PER ARGANO WD PLANETARY WINCH DRIVES

Valori di coefficiente di amplificazione γ_m - Values of Amplifying Coefficient γ_m

| Mechanism group | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M8 |
|-----------------|------|------|------|------|------|------|------|------|
| γ_m | 1.00 | 1.04 | 1.08 | 1.12 | 1.16 | 1.20 | 1.25 | 1.30 |

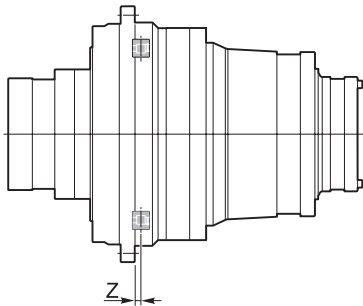
Classe del meccanismo - Mechanism Class

| Class of load spectrum | Spectrum Coefficient K_m | T0 | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 | T9 |
|------------------------|----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 200h | 400h | 800h | 1600h | 3200h | 6300h | 12500h | 25000h | 50000h | 100000h |
| L1 | 0.5 | M1 1.89 | M1 1.71 | M1 1.57 | M2 1.44 | M3 1.34 | M4 1.26 | M5 1.16 | M6 1.02 | M7 0.87 | M8 0.72 |
| L2 | 0.63 | M1 1.5 | M1 1.36 | M2 1.24 | M3 1.14 | M4 1.06 | M5 1 | M6 0.92 | M7 0.81 | M8 0.69 | M8 0.57 |
| L3 | 0.79 | M1 1.18 | M2 1.07 | M3 0.98 | M4 0.9 | M5 0.84 | M6 0.79 | M7 0.72 | M8 0.64 | M8 0.55 | M8 0.45 |
| L4 | 1 | M2 0.95 | M3 0.86 | M4 0.78 | M5 0.72 | M6 0.67 | M7 0.63 | M8 0.58 | M8 0.51 | M8 0.44 | M8 0.36 |

Esempio - Example: $C_{L3-T1} = C_{L2-T5} \cdot 1.07$

Queste coppie non devono mai superare il valore della coppia massima dinamica a tabella
These torques must never be higher than the max dynamic torque in the rating table

Capacità di carico cuscinetto - Bearing Load Capacity



| Tipo - Type | C_0 [N] | C_d [N] | Z [mm] |
|----------------|-----------|-----------|--------|
| WD 1020 | 330000 | 183000 | 17.5 |
| WD 1520 | 435000 | 224000 | 19.7 |
| WD 2000 | 435000 | 224000 | 25.2 |
| WD 2520 | 620000 | 315000 | 21 |
| WD 3000 | 620000 | 315000 | 20.75 |
| WD 4800 | 800000 | 390000 | 13.25 |
| WD 8000 | 840000 | 405000 | 14.5 |

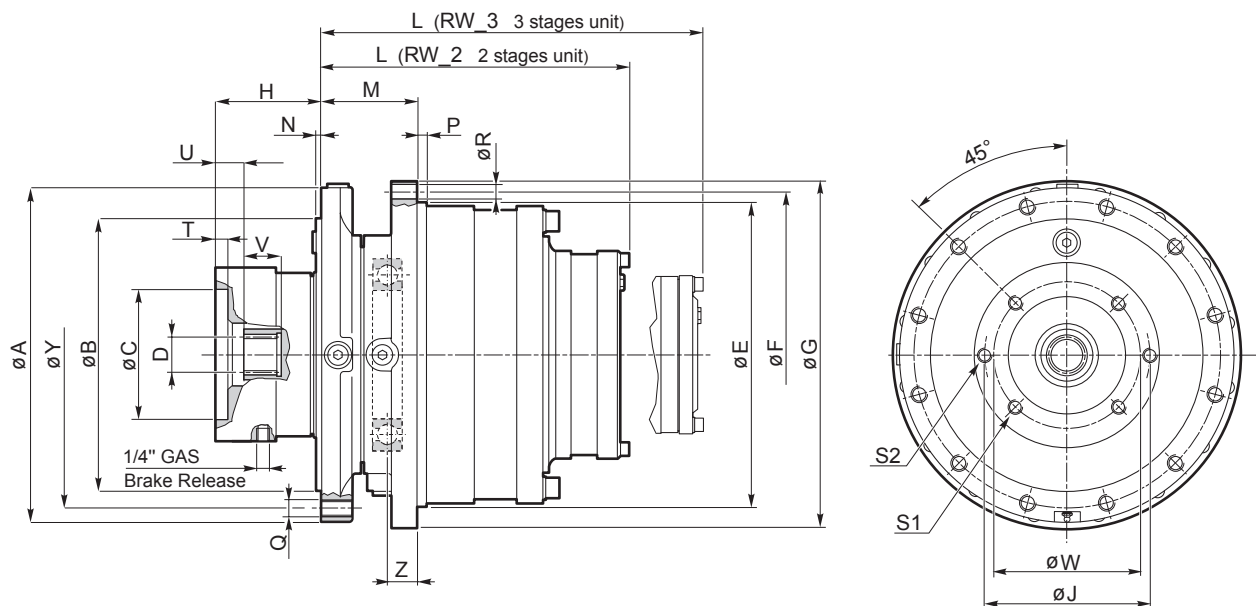
Prestazioni freni FW - FW Brake Performances

| | FW02 | FW03 | FW05 | FW08 | FW11 | FW13 | FW16 | |
|-------------------|------|------|------|------|------|------|------|------|
| T_b [Nm] | 230 | 340 | 550 | 800 | 1100 | 1300 | 1600 | |
| p_b [bar] | 15 | 15 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | ± 5% |
| p_{max} [bar] | 300 | 300 | 300 | 300 | 300 | 300 | 300 | |
| n_{1-max} [RPM] | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | |

Prestazioni freni FY - FY Brake Performances

| | FY22 | FY27 | FY36 | |
|-------------------|------|------|------|------|
| T_b [Nm] | 2200 | 2700 | 3600 | |
| p_b [bar] | 17.5 | 17.5 | 17.5 | ± 5% |
| p_{max} [bar] | 300 | 300 | 300 | |
| n_{1-max} [RPM] | 3500 | 3500 | 3500 | |

RIDUTTORI EPICICLOIDALI RW PER ARGANO RW PLANETARY WINCH DRIVES



Dimensioni generali - General Dimensions

| Tipo / Type | A | B | E | F | G | L | M | N | P | Q | R | Y | Z |
|-------------|-----|--------|--------|-----|-----|-------|-----|----|----|-----------|-----------|-----|------|
| RW 512 | 262 | 215 f7 | 246 f7 | 271 | 291 | 246.5 | 75 | 11 | 10 | n° 12 M12 | n° 12 Ø13 | 240 | 20 |
| RW 513 | 262 | 215 f7 | 246 f7 | 271 | 291 | 289.5 | 75 | 11 | 10 | n° 12 M12 | n° 12 Ø13 | 240 | 20 |
| RW 612 | 262 | 215 f7 | 246 f7 | 271 | 291 | 251 | 75 | 11 | 10 | n° 12 M12 | n° 12 Ø13 | 240 | 20 |
| RW 613 | 262 | 215 f7 | 246 f7 | 271 | 291 | 293 | 75 | 11 | 10 | n° 12 M12 | n° 12 Ø13 | 240 | 20 |
| RW 812 | 330 | 270 f7 | 297 f7 | 327 | 352 | 305 | 100 | 6 | 12 | n° 12 M16 | n° 12 Ø17 | 300 | 26.5 |
| RW 813 | 330 | 270 f7 | 297 f7 | 327 | 352 | 348.5 | 100 | 6 | 12 | n° 12 M16 | n° 12 Ø17 | 300 | 26.5 |
| RW 1022 | 330 | 270 f7 | 297 f7 | 327 | 352 | 340 | 100 | 6 | 12 | n° 12 M16 | n° 12 Ø17 | 300 | 26.5 |
| RW 1023 | 330 | 270 f7 | 297 f7 | 327 | 352 | 395.5 | 100 | 6 | 12 | n° 12 M16 | n° 12 Ø17 | 300 | 26.5 |
| RW 1532 | 393 | 320 f7 | 352 f7 | 383 | 408 | 363 | 113 | 6 | 11 | n° 12-M20 | n° 16 Ø17 | 360 | 34.5 |
| RW 2522 | 393 | 320 f7 | 415 f7 | 448 | 473 | 413 | 115 | 6 | 24 | n° 16 M20 | n° 24 Ø17 | 360 | 29.5 |

Dimensioni ingressi - Input Dimensions

| | C | D | H | T | U | V | W | S1 | J | S2 |
|-------------|----------|-------------|-----|----|----|----|-----|----------|-----|----------|
| Input SAE B | 101.6 H8 | DP16/32 Z13 | 138 | 10 | 8 | 30 | 127 | n° 4 M12 | 146 | n° 2 M14 |
| Input SAE C | 127 F8 | DP12/24 Z14 | 114 | 15 | 16 | 48 | 162 | n° 4 M12 | 181 | n° 2 M16 |
| Input SAE D | 152.5 F8 | DP8/16 Z13 | 128 | 15 | 33 | 47 | 229 | n° 4 M20 | / | / |

RIDUTTORI EPICICLOIDALI RW PER ARGANO RW PLANETARY WINCH DRIVES

Prestazioni RW_2 (2 stadi) - RW_3 (3 stadi)

Coppie nominali secondo FEM 1.001 sezione 1 - 3^a edizione-1998

Performances RW_2 (2 stages) - RW_3 (3 stages)

Nominal torques according to FEM 1.001 part 1 - 3rd edition-1998

| Size | i_e | $T_{2\text{ fem}}$ [Nm] | $T_{d\text{-max}}$ [Nm] | $T_{s\text{-max}}$ [Nm] | $n_{1\text{-max}}$ [RPM] |
|---------------|---------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| RW 512 | 13.79 | 7300 | 7900 | 8800 | 5200 |
| | 17.11 | 7380 | 9700 | 10800 | 5200 |
| | 21.71 | 6000 | 10500 | 13500 | 5200 |
| | 23.52 | 6600 | 12500 | 14500 | 5200 |
| | 29.75 | 6100 | 10500 | 14800 | 5200 |
| | 34.77 | 5100 | 8900 | 11800 | 5200 |
| | 37.38 | 5850 | 10500 | 14800 | 5200 |
| | 43.64 | 5150 | 8900 | 11800 | 5200 |
| RW 513 | 42.60 | 7680 | 11900 | 13200 | 5200 |
| | 52.41 | 7720 | 11900 | 13200 | 5200 |
| | 62.05 | 7680 | 12900 | 15500 | 5200 |
| | 64.42 | 7750 | 11900 | 13200 | 5200 |
| | 71.27 | 7760 | 11900 | 13200 | 5200 |
| | 76.24 | 7700 | 12900 | 15500 | 5200 |
| | 84.32 | 7720 | 12900 | 15500 | 5200 |
| | 89.20 | 6580 | 11900 | 13200 | 5200 |
| | 95.92 | 6250 | 10500 | 14800 | 5200 |
| | 105.81 | 7710 | 12900 | 15500 | 5200 |
| | 109.50 | 7800 | 11900 | 13200 | 5200 |
| | 123.47 | 5240 | 8900 | 11800 | 5200 |
| | 129.45 | 7750 | 12900 | 15500 | 5200 |
| | 154.35 | 5240 | 8900 | 11800 | 5200 |
| | 162.69 | 6250 | 10500 | 14800 | 5200 |
| | 189.30 | 5250 | 8900 | 11800 | 5200 |
| RW 612 | 13.4 | 9550 | 10500 | 11800 | 3100 |
| | 16 | 9700 | 12500 | 13900 | 3100 |
| | 18.34 | 8600 | 13400 | 15800 | 3100 |
| | 20.33 | 9800 | 15600 | 17400 | 3100 |
| | 23.8 | 9050 | 16200 | 18100 | 3100 |
| | 27.21 | 8750 | 13400 | 20500 | 3100 |
| | 29 | 7100 | 13600 | 18100 | 3100 |
| | 33.13 | 8000 | 13400 | 20500 | 3100 |
| | 49.11 | 10000 | 16200 | 18100 | 5200 |
| | 55.94 | 8900 | 13400 | 20500 | 5200 |
| RW 613 | 60.39 | 10000 | 16200 | 18100 | 5200 |
| | 68.75 | 8950 | 13400 | 20500 | 5200 |
| | 73.24 | 10150 | 16200 | 18100 | 5200 |
| | 83.35 | 9000 | 13400 | 20500 | 5200 |
| | 93.41 | 9000 | 13400 | 20500 | 5200 |
| | 97.09 | 10150 | 16200 | 18100 | 5200 |
| | 102.33 | 9000 | 13400 | 20500 | 5200 |
| | 110.45 | 9000 | 13400 | 20500 | 5200 |
| | 122.09 | 10070 | 16200 | 18100 | 5200 |
| | 142.10 | 9250 | 16200 | 18100 | 5200 |
| | 152.59 | 10300 | 16200 | 18100 | 5200 |
| | 161.59 | 9050 | 13400 | 20500 | 5200 |
| | 173.52 | 9050 | 13400 | 20500 | 5200 |
| | 201.89 | 9050 | 13400 | 20500 | 5200 |
| RW 812 | 14.14 | 11750 | 11100 | 12400 | 3100 |
| | 18 | 9600 | 13900 | 15500 | 3100 |
| | 21.13 | 10750 | 16200 | 18100 | 3100 |
| | 24.73 | 9400 | 18000 | 21000 | 3100 |
| | 30.62 | 9100 | 15700 | 21000 | 3100 |
| | 35.10 | 7700 | 13400 | 18600 | 3100 |
| | 37.25 | 9000 | 15700 | 21000 | 3100 |
| | 42.74 | 7900 | 13400 | 18600 | 3100 |
| | RW 813 | 43.60 | 12400 | 20800 | 24300 |
| 53.63 | | 12400 | 20800 | 24300 | 5200 |
| 63.50 | | 12350 | 20800 | 24500 | 5200 |
| 76.09 | | 11150 | 18600 | 23000 | 5200 |
| 86.30 | | 11100 | 20800 | 24500 | 5200 |
| 93.44 | | 11150 | 18600 | 23000 | 5200 |
| 100.87 | | 11150 | 18600 | 23000 | 5200 |
| 108.55 | | 10000 | 18300 | 24500 | 5200 |
| 114.88 | | 9300 | 15700 | 21000 | 5200 |
| 126.82 | | 11200 | 18600 | 23000 | 5200 |
| 135.70 | | 9800 | 18300 | 24500 | 5200 |
| 147.61 | | 9700 | 18000 | 23000 | 5200 |
| 158.50 | | 11200 | 18600 | 23000 | 5200 |
| 184.43 | | 9700 | 18000 | 23000 | 5200 |
| 207.31 | | 7900 | 13400 | 18600 | 5200 |

RIDUTTORI EPICICLOIDALI RW PER ARGANO RW PLANETARY WINCH DRIVES

Prestazioni RW_2 (2 stadi) - RW_3 (3 stadi)

Performances RW_2 (2 stages) - RW_3 (3 stages)

Coppie nominali secondo FEM 1.001 sezione 1 - 3^a edizione-1998

Nominal torques according to FEM 1.001 part 1 - 3rd edition-1998

| Size | i_e | $T_{2\text{ fem}}$ [Nm] | $T_{d\text{-max}}$ [Nm] | $T_{s\text{-max}}$ [Nm] | $n_{1\text{-max}}$ [RPM] |
|---------|--------|----------------------------|----------------------------|----------------------------|-----------------------------|
| RW 1022 | 14.14 | 13770 | 13770 | 15352 | 3100 |
| | 16.64 | 15400 | 16060 | 17900 | 3100 |
| | 18.00 | 16500 | 17280 | 19260 | 3100 |
| | 21.08 | 16600 | 20000 | 22400 | 3100 |
| | 24.73 | 15700 | 23400 | 26100 | 3100 |
| | 30.13 | 15150 | 26880 | 31600 | 3100 |
| | 37.25 | 13200 | 22650 | 30300 | 3100 |
| 42.74 | 11200 | 19300 | 26950 | 3100 | |
| RW 1023 | 43.60 | 17880 | 30000 | 35400 | 5200 |
| | 53.63 | 17950 | 30000 | 35400 | 5200 |
| | 65.07 | 18010 | 30000 | 35400 | 5200 |
| | 72.95 | 18040 | 30000 | 35400 | 5200 |
| | 79.94 | 18060 | 30000 | 35400 | 5200 |
| | 93.09 | 17150 | 30000 | 35400 | 5200 |
| | 100.87 | 16200 | 26900 | 33400 | 5200 |
| | 108.55 | 17200 | 30000 | 35400 | 5200 |
| | 126.82 | 16200 | 26900 | 33400 | 5200 |
| | 135.70 | 18150 | 30000 | 35400 | 5200 |
| | 147.61 | 16250 | 26900 | 33400 | 5200 |
| | 158.50 | 17150 | 26900 | 33400 | 5200 |
| | 167.22 | 9800 | 16600 | 21400 | 5200 |
| | 184.43 | 16250 | 26900 | 33400 | 5200 |
| 207.31 | 11450 | 19300 | 27000 | 5200 | |
| 226.66 | 13500 | 22600 | 30300 | 5200 | |
| RW 1532 | 17.9 | 19100 | 32200 | 35900 | 3100 |
| | 20.81 | 22650 | 37200 | 41400 | 3100 |
| | 24.36 | 19100 | 36500 | 48200 | 3100 |
| | 27.00 | 19450 | 33800 | 53200 | 3100 |
| | 29.68 | 14950 | 28700 | 50300 | 3100 |
| | 31.55 | 19550 | 33800 | 54600 | 3100 |
| | 38.38 | 19100 | 33800 | 54600 | 3100 |
| | 45.73 | 15550 | 26900 | 46300 | 3100 |
| RW 2522 | 17.51 | 31400 | 33400 | 37200 | 2500 |
| | 19.40 | 32530 | 36800 | 41000 | 2500 |
| | 21.25 | 24600 | 40100 | 44700 | 2500 |
| | 25.52 | 32000 | 47800 | 53200 | 2500 |
| | 29.26 | 32100 | 52900 | 60800 | 2500 |
| | 30.88 | 25000 | 43700 | 61700 | 2500 |
| | 34.62 | 31150 | 53000 | 61700 | 2500 |
| 41.81 | 25150 | 43700 | 61700 | 2500 | |

Peso e quantità olio - Weight and Oil Quantity

| | Weight [kg] | Oil Quantity [litri - liters] |
|---------|-------------|-------------------------------|
| RW 512 | 75 | 2 |
| RW 513 | 85 | 2.3 |
| RW 612 | 90 | 2.3 |
| RW 613 | 100 | 2.5 |
| RW 812 | 130 | 3 |
| RW 813 | 140 | 3.5 |
| RW 1022 | 145 | 4 |
| RW 1023 | 155 | 4.2 |
| RW 1532 | 195 | 5 |
| RW 2522 | 275 | 7 |

RIDUTTORI EPICICLOIDALI RW PER ARGANO RW PLANETARY WINCH DRIVES

Valori di coefficiente di amplificazione γ_m - Values of Amplifying Coefficient γ_m

| Mechanism group | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M8 |
|-----------------|------|------|------|------|------|------|------|------|
| γ_m | 1.00 | 1.04 | 1.08 | 1.12 | 1.16 | 1.20 | 1.25 | 1.30 |

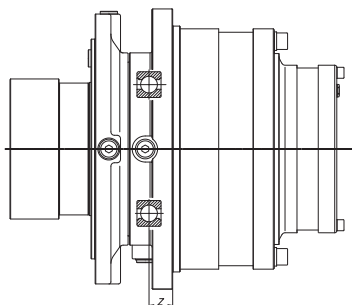
Classe del meccanismo - Mechanism class

| Class of load spectrum | Spectrum Coefficient K_m | T0 | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 | T9 |
|------------------------|----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 200h | 400h | 800h | 1600h | 3200h | 6300h | 12500h | 25000h | 50000h | 100000h |
| L1 | 0.5 | M1 1.89 | M1 1.71 | M1 1.57 | M2 1.44 | M3 1.34 | M4 1.26 | M5 1.16 | M6 1.02 | M7 0.87 | M8 0.72 |
| L2 | 0.63 | M1 1.5 | M1 1.36 | M2 1.24 | M3 1.14 | M4 1.06 | M5 1 | M6 0.92 | M7 0.81 | M8 0.69 | M8 0.57 |
| L3 | 0.79 | M1 1.18 | M2 1.07 | M3 0.98 | M4 0.9 | M5 0.84 | M6 0.79 | M7 0.72 | M8 0.64 | M8 0.55 | M8 0.45 |
| L4 | 1 | M2 0.95 | M3 0.86 | M4 0.78 | M5 0.72 | M6 0.67 | M7 0.63 | M8 0.58 | M8 0.51 | M8 0.44 | M8 0.36 |

Esempio - Example: $C_{L3-T1} = C_{L2-T5} \cdot 1.07$

Queste coppie non devono mai superare il valore della coppia massima dinamica a tabella
These torques must never be higher than the max dynamic torque in the rating table

Capacità di carico cuscinetto - Bearing Load



| Tipo - Type | C_0 [N] | C_d [N] | Z [mm] |
|--------------------------|-----------|-----------|--------|
| RW 512 - RW 513 | 65500 | 72800 | 20 |
| RW 612 - RW 613 | 65500 | 72800 | 20 |
| RW 812 - RW 813 | 100000 | 106000 | 26.5 |
| RW 1022 - RW 1023 | 100000 | 106000 | 26.5 |
| RW 1532 | 125000 | 125000 | 34.5 |
| RW 2522 | 143000 | 390000 | 29.5 |

Prestazioni freni F5 - F5 Brake Performances

| | F 501 | F 502 | F 503 | F 504 | F505 | F 506 | F508 |
|-------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| T_b [Nm] | 110 | 215 | 325 | 405 | 500 | 630 | 818 |
| p_b [bar] | 10 | 20 | 30 | 38 | 28 | 35 | 33 |
| p_{max} [bar] | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| n_{1-max} [RPM] | standard special | 1500 3500 | 1500 3500 | 1500 3500 | 1500 3500 | 1500 3500 | 1500 3500 |

± 5%

Prestazioni freni F9 - F9 Brake Performances

| | F 902 | F 903 | F 904 | F 905 | F906 | F 908 | F910 | F 912 | F915 |
|-------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| T_b [Nm] | 244 | 317 | 439 | 488 | 683 | 854 | 976 | 1120 | 1465 |
| p_b [bar] | 16 | 21 | 20 | 16 | 23 | 23 | 26 | 32 | 39 |
| p_{max} [bar] | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| n_{1-max} [RPM] | standard special | 1500 3500 | 1500 3500 | 1500 3500 | 1500 3500 | 1500 3500 | 1500 3500 | 1500 3500 | 1500 3500 |

± 5%



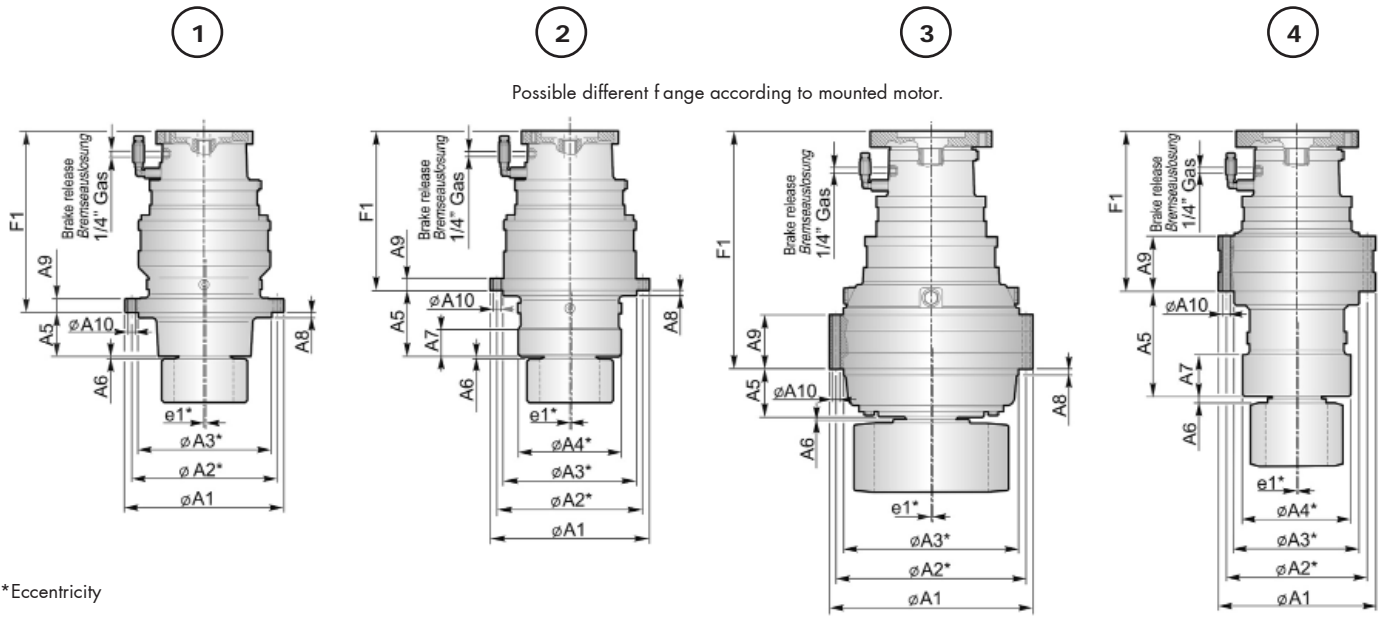
Ratings RE - 2 (2 stages)

Ratings RE - 3 (3 stages)

| Type | RE240 | | | RE310 | | RE510 | | RE610 | | RE810 | | RE1020 | | RE1520 | | RE2520 | | RE3510 | | RE4800 | | RE6000 | | RE8000 | | | |
|------|--------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|---------|------------|--------|------------|--|--|
| | in | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | ie | T2 FEM* Nm | | |
| 2 | 12.5 | 13.29 | 4352 | 12.53 | 4583 | 12.53 | 9530 | | | 12.83 | 14970 | 12.83 | 24124 | | | | | | | | | | | | | | |
| | 14 | 15.47 | 3716 | 14.79 | 4824 | 14.79 | 9946 | 14.40 | 12838 | 15.14 | 14183 | 15.14 | 24124 | 14.73 | 33651 | 14.25 | 54046 | 13.68 | 75579 | 13.17 | 95682 | 14.20L | 102049 | 14.5L | 150171 | | |
| | 16 | 16.28 | 4352 | 15.35 | 4513 | 15.35 | 9025 | 16.36 | 11173 | 17.65 | 14400 | 17.65 | 20856 | 17.39 | 32879 | 16.62 | 46706 | 16.88 | 66986 | 15.71 | 105241 | 15.88 | 116657 | 16.00 | 166208 | | |
| | 18 | | | 18.12 | 4824 | 18.12 | 9946 | 17.00 | 12838 | 18.36 | 11683 | 19.00 | 19413 | | | 18.53 | 41294 | | | 17.75 | 73907 | | | 18.82 | 166208 | | |
| | 20 | 18.95 | 3716 | 20.77 | 3217 | 20.77 | 6492 | 19.32 | 11173 | | | | | | | | | 19.68 | 66986 | 20.16 | 79719 | 20.70 | 91603 | 20.8L | 136351 | | |
| | 22.5 | 22.03 | 3401 | 22.74 | 3786 | 22.74 | 7800 | 21.33 | 12538 | 22.15 | 12994 | 22.15 | 20856 | 21.82 | 26383 | 21.60 | 41294 | 22.59 | 52440 | 21.18 | 73908 | 21.75 | 111360 | 21.96 | 139657 | | |
| | 25 | 25.64 | 3716 | 24.52 | 3763 | 24.52 | 7592 | 24.24 | 11173 | 25.75 | 10865 | 25.75 | 20856 | 25.36 | 22117 | 26.52 | 41294 | 24.16 | 65279 | 26.40L | 70976 | | | 24.26L | 139657 | | |
| | 28 | 27.49 | 2409 | 26.43 | 3113 | 26.43 | 6427 | 28.18 | 11173 | 27.20 | 11683 | 27.20 | 16895 | 28.00 | 25062 | 30.28 | 41294 | 27.73 | 52440 | 27.18 | 73907 | 28.35 | 91603 | 29.16L | 122265 | | |
| | 32.5 | 31.32 | 2908 | 30.77 | 3786 | 30.77 | 7800 | 30.00 | 8148 | 31.62 | 11683 | 31.62 | 16895 | 32.55 | 25062 | | | 31.67 | 52440 | 32.25 | 73907 | | | | | | |
| | 35.5 | | | 35.77 | 3113 | 35.77 | 6427 | 34.09 | 9190 | 36.11 | 9724 | 36.11 | 14063 | 33.23 | 19319 | 35.66 | 35513 | 37.29 | 52440 | | | | | | | | |
| | 40 | 39.09 | 2908 | 38.40 | 3303 | 38.40 | 6687 | | | 38.25 | 10244 | 38.25 | 16895 | 39.38 | 21690 | | | | | | | 40.05L | 67526 | | | | |
| | 45 | | | 44.64 | 3113 | 44.64 | 6427 | | | 43.68 | 9724 | 43.68 | 14063 | 46.73 | 19319 | 42.86 | 31354 | 44.31 | 44402 | | | | | | | | |
| | 50 | | | 54.00 | 2368 | 54.00 | 4878 | | | 51.43 | 8140 | 51.43 | 11775 | | | | | | | | | | | | | | |
| | 3 | 45 | 46.24 | 4352 | 43.60 | 4583 | 43.60 | 9530 | | | | | | | | | | | | 47.40 | 95682 | | | | | | |
| | | 50 | 53.82 | 3716 | 51.47 | 4824 | 51.47 | 9946 | 50.11 | 12838 | 52.69 | 14183 | 52.69 | 24124 | 51.25 | 33651 | 51.30 | 53251 | 49.25 | 75579 | | | | | | | |
| 56 | | 56.65 | 4352 | 53.41 | 4583 | 53.41 | 9530 | 59.16 | 12838 | 54.68 | 14717 | 54.68 | 24124 | 60.50 | 32879 | 59.82 | 46706 | 58.14 | 75579 | 56.55 | 105241 | | | 57.00 | 166208 | | |
| 63 | | 65.94 | 3716 | 63.05 | 4824 | 63.05 | 9946 | 61.39 | 12838 | 63.75 | 14400 | 63.75 | 20856 | 62.78 | 33535 | 60.56 | 51521 | 60.75 | 66986 | 66.76 | 105241 | 63.52 | 116657 | 66.46 | 139658 | | |
| 71 | | 69.39 | 4352 | 72.28 | 4583 | 72.28 | 9530 | 72.47 | 12838 | 75.26 | 14400 | 73.99 | 21510 | 74.12 | 32879 | 70.62 | 46706 | 72.96 | 75579 | 72.58 | 79719 | 72.19 | 116657 | | | | |
| 80 | | 76.66 | 4352 | 77.24 | 4824 | 77.24 | 9946 | 83.08 | 11892 | 77.10 | 12994 | 81.00 | 23157 | 80.57 | 25062 | 78.73 | 41294 | 82.33 | 52440 | 83.58 | 93812 | 78.68L | 91603 | 78.19 | 166208 | | |
| 90 | | 93.91 | 4352 | 85.33 | 4824 | 85.33 | 9946 | 90.95 | 12538 | 87.35 | 12467 | 89.62 | 20856 | 93.01 | 26383 | 86.70 | 38490 | 90.00 | 66986 | 90.00 | 73907 | 87.00 | 111360 | 93.17 | 166208 | | |
| 100 | | 95.67 | 4352 | 104.53 | 4824 | 104.53 | 9946 | 98.08 | 12838 | 101.85 | 14400 | 101.85 | 20856 | 100.31 | 28657 | 103.02 | 40151 | 98.89 | 65340 | 97.39 | 78644 | 98.86 | 111360 | | | | |
| 112 | | 111.36 | 3716 | 106.49 | 4824 | 110.50 | 8948 | 111.45 | 11173 | 109.62 | 11241 | 109.62 | 23157 | 109.04 | 25062 | 112.71 | 41294 | 104.94 | 66986 | 112.94 | 73908 | 113.40 | 91603 | 112.00 | 139657 | | |
| 125 | | 117.20 | 4352 | 130.45 | 4824 | 130.45 | 9946 | 123.08 | 12538 | 127.81 | 12994 | 127.81 | 20856 | 125.87 | 26383 | 128.70 | 41294 | 121.99 | 66986 | 124.99 | 79719 | 128.86 | 91603 | 127.88 | 139657 | | |
| 140 | | 147.93 | 3716 | 141.46 | 3763 | 141.46 | 7592 | 139.86 | 11173 | 134.80 | 11683 | 148.58 | 20856 | 146.33 | 22117 | 141.44 | 41294 | 149.78 | 65279 | 144.94 | 73908 | 142.99L | 86422 | 150.58 | 139657 | | |
| 160 | | 158.60 | 3401 | 163.71 | 3786 | 163.71 | 7800 | 162.59 | 11173 | 156.92 | 11683 | 159.51 | 20856 | 157.09 | 25238 | 164.42 | 41294 | 168.88 | 52440 | 158.82 | 73908 | 163.12L | 82849 | 166.4L | 139657 | | |
| 180 | | 184.62 | 3716 | 176.54 | 3763 | 176.54 | 7592 | 178.56 | 10486 | 182.42 | 11683 | 185.43 | 20856 | 182.62 | 22117 | 187.75 | 41294 | 181.18 | 65279 | 172.02 | 73908 | 175.77L | 91603 | | | | |
| 200 | | 197.93 | 2409 | 190.31 | 3113 | 190.31 | 6427 | 202.91 | 11173 | 195.84 | 11683 | 195.84 | 16895 | 201.60 | 25062 | 198.90 | 41294 | 207.98 | 52440 | 199.97 | 73908 | 208.60L | 86422 | 200L | 122265 | | |
| 225 | | 230.40 | 2781 | 221.54 | 3786 | 221.54 | 7800 | | | 227.66 | 11683 | 227.66 | 16895 | 234.36 | 25062 | 221.07 | 35513 | 237.49 | 52440 | | | 212.62L | 91603 | | | | |
| 250 | | | 257.54 | 3113 | 257.54 | 6427 | 245.45 | 9190 | 251.98 | 9724 | | | 239.26 | 19319 | 239.06 | 31354 | 247.15 | 44402 | 241.90 | 73908 | | | | | | | |
| 280 | 281.42 | 2908 | 276.48 | 3303 | 276.48 | 6687 | | | 275.40 | 10244 | 275.40 | 16895 | 278.14 | 19319 | 267.43 | 35513 | 279.64 | 52440 | | | 252.34L | 86422 | | | | | |
| 315 | | | 321.41 | 3113 | 321.41 | 6427 | | | 314.47 | 9724 | 314.47 | 14063 | | | 321.43 | 31354 | 332.31 | 44402 | | | | | | | | | |

* It could be limited by pinion performance.

| | | |
|------------|------|---|
| in | | Renard numbers ratio |
| ie | | Actual ratio |
| T2 FEM | [Nm] | Nominal output torque according to FEM M2 (T2 - L2) with 25 rpm |
| T2 _ CONT | [Nm] | Output continuous torque |
| T_MAX_dyn | [Nm] | Max dynamic output torque |
| T_MAX_stat | [Nm] | Max static output torque |

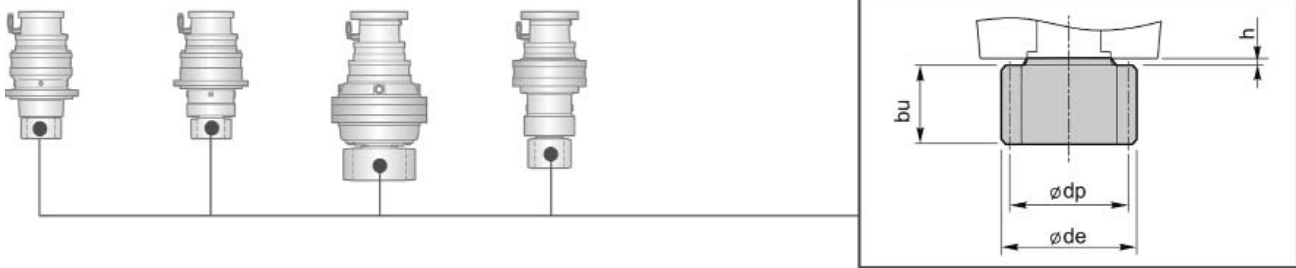


*Eccentricity

Output dimension

| Type | | T2_CONT (Nm) | ø A1 | ø A2 | ø A3 | A4 | A5 | A6 | A7 | A8 | A9 | ø A10 | n° A10 | F1 | | e1 |
|--------------|---|-----------------|------|------|--------|--------|-------|-----|------|------|------|-------|--------|----------|----------|-----|
| | | | | | | | | | | | | | | 2 stages | 3 stages | |
| RE 240 DBS | 1 | 4350 | 214 | 190 | 160 h8 | — | 54.5 | 2 | — | 12 | 12 | 12.5 | 12 | 322.5 | — | — |
| RE 240 T4 | 1 | 4350 | 250 | 227 | 180 h8 | — | 46.5 | 3.5 | — | 15 | 20 | 12.5 | 8 | 229.5 | — | — |
| RE 310 NR | 1 | 4820 | 224 | 190 | 150 f7 | — | 20.5 | 7.5 | — | 8.5 | 20 | 14.5 | 8 | 336.5 | 379.5 | — |
| RE 310 T | 1 | 4820 | 272 | 245 | 175 h7 | — | 38 | 1.5 | — | 12 | 20 | 12.5 | 20 | 319 | 362 | 1.5 |
| RE 310 T6 | 1 | 4820 | 272 | 245 | 175 h7 | — | 38 | 1.5 | — | 9 | 20 | 18 | 10 | 319 | 362 | — |
| RE 310 T8 | 1 | 4820 | 240 | 215 | 175 h7 | — | 38 | 1.5 | — | 9 | 20 | 17 | 12 | 319 | 362 | — |
| RE 310 T9 | 1 | 4820 | 250 | 227 | 180 h8 | — | 38 | 1.5 | — | 12 | 20 | 12.5 | 10 | 319 | 362 | — |
| RE 510 NR | 1 | 7730 | 224 | 190 | 150 f7 | — | 20.5 | 7.5 | — | 8.5 | 20 | 14.5 | 8 | 373.5 | 416.5 | — |
| RE 510 T | 1 | 9940 | 272 | 245 | 175 h7 | — | 38 | 1.5 | — | 12 | 20 | 12.5 | 20 | 366.5 | 409.5 | 1.5 |
| RE 510 T6 | 1 | 9940 | 272 | 245 | 175 h7 | — | 38 | 1.5 | — | 9 | 20 | 18 | 10 | 349 | 392 | — |
| RE 510 T8 | 1 | 9940 | 240 | 215 | 175 h7 | — | 38 | 1.5 | — | 9 | 20 | 17 | 12 | 349 | 392 | — |
| RE 510 T9 | 1 | 8430 | 250 | 227 | 180 h8 | — | 38 | 1.5 | — | 12 | 20 | 12.5 | 10 | 349 | 392 | — |
| RE 510 T18 | 2 | 9940 | 350 | 325 | 290 h8 | 184 h8 | 286 | 5 | 72 | 10 | 20 | 14.5 | 12 | 349 | 392 | — |
| RE 510 DBS | 1 | 9940 | 280 | 250 | 215 f7 | — | 73 | 7 | — | 15 | 20 | 17 | 12 | 213.5 | 256.5 | 1.5 |
| RE 610 T18 | 2 | 12830 | 350 | 325 | 290 h8 | 184 h8 | 286 | 5 | 72 | 10 | 20 | 14.5 | 12 | 216.5 | 260 | — |
| RE 610 DBS | 1 | 12830 | 340 | 310 | 250 h8 | — | 87 | 5 | — | 12 | 23.5 | 16.5 | 12 | 369.5 | 412 | — |
| RE 810 TR | 1 | 14740 | 280 | 250 | 200 f7 | — | 44.5 | 3.5 | — | 10.5 | 22 | 17 | 12 | 370.5 | 414 | 1.5 |
| RE 1020 DBS | 1 | 24120 | 355 | 325 | 298 h8 | — | 98 | 2 | — | 12 | 30 | 16.5 | 16 | 396.5 | 481 | 1.5 |
| RE 1020 DBT | 2 | 24120 | 355 | 325 | 298 h8 | 230 h8 | 147 | 2 | 60 | 12 | 25 | 16.5 | 16 | 353.5 | 432 | — |
| RE 1020 Z | 2 | 24120 | 365 | 326 | 250 h8 | 200 h8 | 247 | 8 | 62 | 20 | 40 | 18 | 12 | 297 | 351 | 1.5 |
| RE 1020 Z1 | 2 | 24120 | 380 | 350 | 280 h7 | 230 h7 | 296.5 | 6 | 93.5 | 20 | 30 | 18 | 16 | 287 | 341 | 2.5 |
| RE 1520 DBS | 1 | 33650 | 420 | 380 | 340 h8 | — | 95 | 5 | — | 20 | 30 | 21 | 20 | 492 | 546 | 2.5 |
| RE 1520 DBT | 2 | 33650 | 420 | 380 | 340 h7 | 290 h7 | 220 | 5 | 45 | 20 | 30 | 21 | 16 | 367 | 422 | — |
| RE 1520 Z | 4 | 26030 | 350 | 314 | 278 h8 | 240 h8 | 233 | 6 | 92 | 30 | 123 | 16.5 | 12 | 310.5 | 364.5 | — |
| RE 2520 DBS | 1 | 54040 | 420 | 380 | 340 h8 | — | 97 | 3 | — | 20 | 30 | 21 | 20 | — | 585 | 2.5 |
| RE 2520 Z | 2 | 54040 | 500 | 460 | 410 h8 | 270 h8 | 370 | 9 | 95 | 25 | 25 | 22 | 12 | — | 388.25 | — |
| RE 2520 Z1 | 1 | 54040 | 430 | 395 | 280 h7 | — | 78 | 5 | — | 58 | 35 | 22 | 24 | — | 680.5 | 2.5 |
| RE 3510 DBS1 | 1 | 75570 | 490 | 445 | 400 f7 | — | 104 | 7 | — | 18 | 37 | 21 | 24 | — | 801 | 1.5 |
| RE 3510 T | 1 | 75570 | 575 | 525 | 465 h7 | — | 110 | 5 | — | 20 | 42 | 26 | 24 | — | 729.5 | 2.5 |
| RE 3510 Z2 | 2 | 75570 | 530 | 490 | 410 h8 | 325 h8 | 342 | 20 | 105 | 30 | 30 | 22 | 24 | — | 567 | — |
| RE 3510 HR | 3 | 75570 | 452 | 424 | 390 f7 | — | 107 | 2 | — | 15 | 120 | 20.5 | 24 | — | 480.5 | 2 |
| RE 4800 DBS1 | 1 | 105240 | 490 | 445 | 400 f7 | — | 104 | 7 | — | 18 | 37 | 21 | 24 | — | 858 | 1.5 |
| RE 6000 Z1 | 2 | 116660 | 585 | 545 | 510 h8 | 360 h8 | 245.5 | 10 | 118 | 15 | 30 | 19 | 24 | — | 645.5 | 2 |
| RE 6000 Z4 | 2 | 116660 | 680 | 630 | 575 h8 | 380 h8 | 510 | 16 | 145 | 25 | 30 | 26 | 16 | — | 540 | 2.5 |
| RE 8000 Z4 | 2 | 166210 | 680 | 630 | 575 h8 | 380 h8 | 510 | 16 | 145 | 25 | 30 | 26 | 16 | — | 835 | 2.5 |

All dimensions are in mm.



Pinion data

| Type | m | z | x | de | dp | bu | h | T_MAX_dyn [Nm] | T_MAX_stat [Nm] |
|---------------------|----|----|-------|--------|-----|------|------|---------------------|----------------------|
| RE 240 DB | 8 | 14 | 0.5 | 134.75 | 112 | 68 | 2 | 5790 | 6430 |
| RE 240 T4 | 8 | 11 | 0 | 104 | 88 | 60 | 1.5 | 2450 | 3060 |
| RE 310 T | 8 | 14 | 0.5 | 135 | 112 | 75 | 11 | 4920 | 7600 |
| RE 310 NR | 10 | 12 | 0.5 | 149 | 120 | 90 | 19.5 | 4920 | 7600 |
| | 8 | 12 | 0.5 | 120 | 96 | 83 | 10.5 | 4920 | 7600 |
| | 8 | 11 | 0.5 | 110.8 | 88 | 79 | 10.5 | 4920 | 7600 |
| RE 310 T6 | 10 | 14 | 0.5 | 168 | 140 | 80 | 2 | 4920 | 7600 |
| | 10 | 13 | 0.6 | 161 | 130 | 86 | 16.5 | 4920 | 7600 |
| RE 310 T8 | 10 | 12 | 0.55 | 150.5 | 120 | 93 | 3 | 4920 | 7600 |
| RE 310 T9 | 10 | 11 | 0.43 | 136.8 | 110 | 85 | 20 | 4920 | 7600 |
| RE 510 T | 8 | 14 | 0.5 | 135 | 112 | 75 | 11 | 9580 | 11980 |
| RE 510 NR | 10 | 12 | 0.5 | 149 | 120 | 90 | 19.5 | 7730 | 12110 |
| | 8 | 12 | 0.5 | 120 | 96 | 83 | 10.5 | 7730 | 10410 |
| | 8 | 11 | 0.5 | 110.8 | 88 | 79 | 10.5 | 7730 | 9720 |
| RE 510 T6 | 10 | 14 | 0.5 | 168 | 140 | 80 | 2 | 10160 | 14280 |
| | 10 | 13 | 0.6 | 161 | 130 | 86 | 16.5 | 10160 | 13250 |
| RE 510 T8 | 10 | 12 | 0.55 | 150.5 | 120 | 93 | 3 | 10160 | 13000 |
| RE 510 T9 | 10 | 11 | 0.43 | 136.8 | 110 | 85 | 20 | 8430 | 10880 |
| RE 510 T18 | 8 | 14 | 0.355 | 138.68 | 112 | 78 | 4 | 9560 | 11950 |
| RE 510 DB | 10 | 11 | 0.5 | 137 | 110 | 78 | 7 | 10160 | 11676 |
| | 10 | 10 | 0.5 | 127 | 100 | 81.5 | 7 | 10160 | 13250 |
| RE 610 DB | 12 | 10 | 0.5 | 152.4 | 120 | 86 | 5 | 17310 | 18630 |
| RE 610 T18 | 12 | 11 | 0.525 | 168.61 | 132 | 110 | 6 | 10950 | 13690 |
| RE 810 TR | 10 | 13 | 0.5 | 160 | 130 | 85 | 5.5 | 14470 | 18080 |
| RE 1020 DB | 12 | 12 | 0.5 | 177.33 | 144 | 88 | 2 | 16980 | 21230 |
| | 14 | 11 | 0.5 | 192.36 | 154 | 97 | 2 | 17880 | 22350 |
| RE 1020 Z | 10 | 12 | 0.2 | 144 | 120 | 90 | 21 | 15890 | 19860 |
| RE 1020 Z1 | 16 | 11 | 0.57 | 222 | 176 | 118 | 6 | 21990 | 35770 |
| RE 1520 DBS | 16 | 10 | 0.5 | 203.2 | 160 | 120 | 5 | 31000 | 34500 |
| | 18 | 10 | 0.5 | 230.4 | 180 | 150 | 5 | 33000 | 37000 |
| RE 1520 DBT | 16 | 10 | 0.5 | 203.2 | 160 | 120 | 5 | 31000 | 34500 |
| | 18 | 10 | 0.5 | 230.4 | 180 | 150 | 5 | 33000 | 37000 |
| RE 1520 Z | 10 | 18 | - | 200 | 180 | 100 | 21 | 27000 | 30000 |
| | 16 | 10 | 0.5 | 206 | 160 | 120 | 6 | 27000 | 30000 |
| | 20 | 10 | 0.5 | 277 | 200 | 140 | 6 | 29000 | 32000 |
| RE 2520 DB | 18 | 12 | 0.5 | 266 | 216 | 176 | 3 | 37140 | 46420 |
| | 20 | 11 | 0.5 | 280 | 220 | 130 | 3 | 41420 | 51780 |
| RE 2520 Z | 14 | 13 | 0.5 | 224 | 182 | 125 | 5 | 57610 | 72010 |
| | 16 | 12 | 0.5 | 240 | 192 | 117 | 5 | 59590 | 77270 |
| RE 2520 Z1 | 18 | 11 | 0.5 | 250.2 | 198 | 200 | 5 | 52210 | 65260 |
| | 18 | 10 | 0.5 | 234 | 180 | 168 | 5 | 53640 | 67050 |
| RE 3510 DBS1 | 18 | 13 | 0.5 | 288 | 234 | 190 | 7 | 80973 | 111600 |
| RE 3510 T | 35 | 7 | 0.4 | 335 | 245 | 130 | 5 | 65592 | 81990 |
| RE 3510 z2 | 16 | 13 | 0.5 | 251.5 | 208 | 160 | 20 | 90000 | 100000 |
| RE 3510 HR | 16 | 17 | - | 304 | 272 | 142 | 12 | 52730 | 88110 |
| | 20 | 11 | 0.5 | 274.8 | 220 | 155 | 12 | 52730 | 75960 |
| RE 4800 DBS1 | 18 | 13 | 0.5 | 288 | 234 | 190 | 7 | 88380 | 98200 |
| RE 6000 Z1 | 16 | 19 | - | 336 | 304 | 99 | 10 | 120550 | 133940 |
| RE 6000 Z4 | 20 | 12 | 0.5 | 300 | 240 | 150 | 10 | 120550 | 133940 |
| RE 8000 Z4 | 20 | 12 | 0.5 | 300 | 240 | 150 | 10 | 153090 | 170100 |

Torque corrective factor according to FEM class

| | | Class of utilization | | | | | | |
|-------------------|----|----------------------|-------------|--------------|--------------|----------------|----------------|----------------|
| | | T2 | T3 | T4 | T5 | T6 | T7 | T8 |
| Lifetime in hours | | 400 to 800 | 800 to 1600 | 1600 to 3200 | 3200 to 6300 | 63000 to 12500 | 12500 to 25000 | 25000 to 50000 |
| Spectrum class | L1 | M1 | M2 | M3 | M4 | M5 | M6 | M7 |
| | | 1.26 | 1.13 | 1.04 | 0.99 | 0.93 | 0.83 | 0.71 |
| | L2 | M2 | M3 | M4 | M5 | M6 | M7 | M8 |
| | | 1.00 | 0.90 | 0.83 | 0.79 | 0.74 | 0.66 | 0.56 |
| | L3 | M3 | M4 | M5 | M6 | M7 | M8 | M9 |
| | | 0.79 | 0.71 | 0.65 | 0.62 | 0.58 | 0.52 | 0.44 |
| | L4 | M4 | M5 | M6 | M7 | M8 | M9 | M10 |
| | | 0.63 | 0.57 | 0.52 | 0.50 | 0.46 | 0.42 | 0.36 |

Mechanism selection guide according to FEM 1.001/3

| Type of application | Type of mechanism | | | | |
|---|-------------------|---------|---------|----------|---------|
| | Hoisting | Slewing | Luffing | Traverse | Travel |
| Hand-operated application | M1 | – | – | M1 | M1 |
| Erection and cranes | M2 - M3 | M2 - M3 | M1 - M2 | M1 - M2 | M2 - M3 |
| Erection and dismantling cranes for power stations, machine shops | M2 | – | – | M2 | M2 |
| Stocking and reclaiming transporters | M5 - M8 | M4 - M6 | – | M4 - M7 | M5 - M8 |
| Workshop cranes | M6 | M4 | – | M4 | M5 |
| Overhead travelling cranes, pigbreaking cranes, scrapyards cranes | M8 | M6 | – | M6 - M7 | M7 - M8 |
| Ladle cranes | M7 - M8 | – | – | M4 - M5 | M6 - M7 |
| Soaking-pit cranes | M8 | M6 | – | M7 | M8 |
| Stripper cranes, open-hearth furnace-charging cranes | M8 | M6 | – | M7 | M8 |
| Forge cranes | M8 | – | – | M5 | M6 |
| Bridge cranes for unloading, bridge cranes for containers | M4 - M8 | M4 - M6 | M3 - M6 | M4 - M8 | M4 - M5 |
| Drydock cranes, shipyard jib cranes | M5 - M6 | M4 - M5 | M4 - M5 | M4 - M5 | M5 - M6 |
| Floating cranes and pontoon derricks for very heavy loads | M3 - M4 | M3 - M4 | M3 - M4 | – | – |
| Deck cranes | M4 - M6 | M3 - M4 | M3 - M4 | M2 - M5 | M3 - M4 |
| Tower cranes for building | M4 | M5 | M4 | M3 | M3 |
| Derricks | M2 - M3 | M1 - M2 | M1 - M2 | – | – |
| Railway cranes allowed to run in train | M3 - M4 | M2 - M3 | M2 - M3 | – | – |

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Le gamme di riduttori planetari "RE" e "GB", sono state concepite per soddisfare le aspettative del mercato moderno, sempre più esigente e selettivo. Oggi vengono introdotte nuove taglie che nella continua ricerca di dinamicità, evoluzione tecnologica e flessibilità, completano e in parte rinnovano l'offerta Dinamic Oil sul mercato delle trasmissioni di potenza.

Questi riduttori sono stati studiati per le applicazioni più selettive, tenendo conto sia dei forti sovraccarichi delle applicazioni mobili sia delle esigenze di lunga durata ed affidabilità degli impieghi industriali.

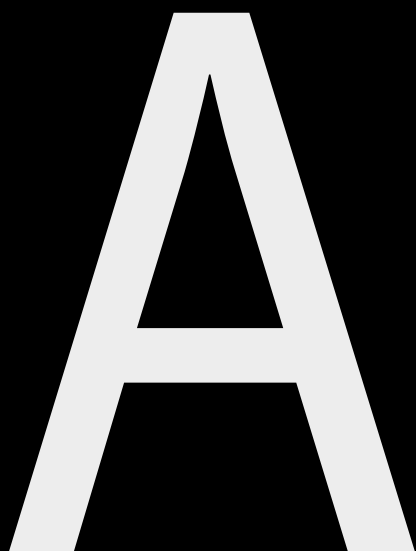
I prodotti Dinamic Oil trovano infatti applicazione con successo su macchine mobili nei settori sollevamento e trasporto, edile, cantieristico, agricolo e marino, così come nelle rotazioni di pompe per calcestruzzo, escavatori, autogrù, gru per autocarro e piattaforme aeree. I riduttori planetari sono largamente utilizzati negli impianti industriali nei settori più svariati: lavorazione lamiera, siderurgico, lavorazione materie plastiche, depurazione acque, chimico, energetico, minerario e di trasformazione in genere.

Questo nuovo catalogo 2012 rappresenta le prestazioni dei riduttori in base alla potenza trasmissibile rispetto ad un fattore di servizio unitario, consentendo una selezione semplice e veloce in funzione dei fattori di servizio richiesti.

I tecnici Dinamic Oil, che si avvalgono dei programmi di calcolo più aggiornati, sono a disposizione dei clienti per una selezione più approfondita, in funzione di normative fem, di durate di vita teorica o di altri metodi di calcolo.

Il catalogo illustra i riduttori attualmente in produzione con coppie massime ammissibili comprese tra 1000 Nm e 3000000 Nm.

Oltre alle diverse versioni di supporti di uscita e predisposizioni per attacco motore, è stata arricchita la gamma degli accessori in ingresso e in uscita che rendono estremamente versatile l'applicazione dei riduttori Dinamic Oil.



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1.0 Simbologia e unità di misura

| Simbolo | Unità di misura | Descrizione |
|-------------------------|-----------------|---------------------------------|
| -1 | | valore riferito all'ingresso |
| -2 | | valore riferito all'uscita |
| bu | mm | altezza fascia dentata |
| de | mm | diametro esterno |
| dp | mm | diametro primitivo teorico |
| fa | N | carico assiale |
| f_{amax} | N | carico assiale massimo |
| f_r | N | carico radiale |
| H | mm | altezza pignone |
| i_e | - | rapporto di riduzione effettivo |
| m | mm | modulo |
| n | RPM | velocità |
| n_{max} | RPM | velocità massima |
| nxh | RPMxh | indice di durata |
| P₁ | kW | potenza nominale |
| pb | bar | pressione apertura freno |
| pmax | bar | pressione massima freno |
| P_t | kW | potenza termica |
| T | Nm | coppia |
| T_b | Nm | coppia frenante |
| T_{max} | Nm | coppia massima |
| X | mm | distanza applicazione carico |
| x | - | correzione dentatura |
| z | - | numero di denti |

| Simbolo | Descrizione |
|--------------------------|--------------------------------|
| | Supporto in uscita |
| | Entrata |
| | Supporto in entrata |
| ...Nm | Coppia di serraggio [Nm] |
| | Quantità d'olio [litri] |
| | Peso [kg] |
| | Carico olio / sfiato |
| | Livello olio |
| | Scarico olio |
| | Motori idraulici |
| | Motori elettrici |
| | Riduttore a vite senza fine |
| M.. - 10.9 M.. - 12.9 | Vite di fissaggio raccomandata |
| | Riferimento pagina |

2.0 Forme costruttive disponibili

MOTORI UTILIZZABILI

- 1 Motore elettrico
- 2 Motore idraulico orbitale
- 3 Motore idraulico a pistoni assiali
- 4 Motore idraulico a pistoni radiali
- 5 Motore idraulico orbitale "MLR"

TIPI DI ENTRATE

- 9 Predisposizione attacco motore
- 10 Albero veloce
- 11 Motore elettrico diretto
- 12 Motore orbitale diretto
- 13 Freno negativo "F1../F2.."
- 14 Freno negativo "F5../F6../F8../F9"
- 15 Flangia standard
- 16 Flangia attacco "MZ"
- 17 Flangia attacco "MD"

STADI DI RIDUZIONE

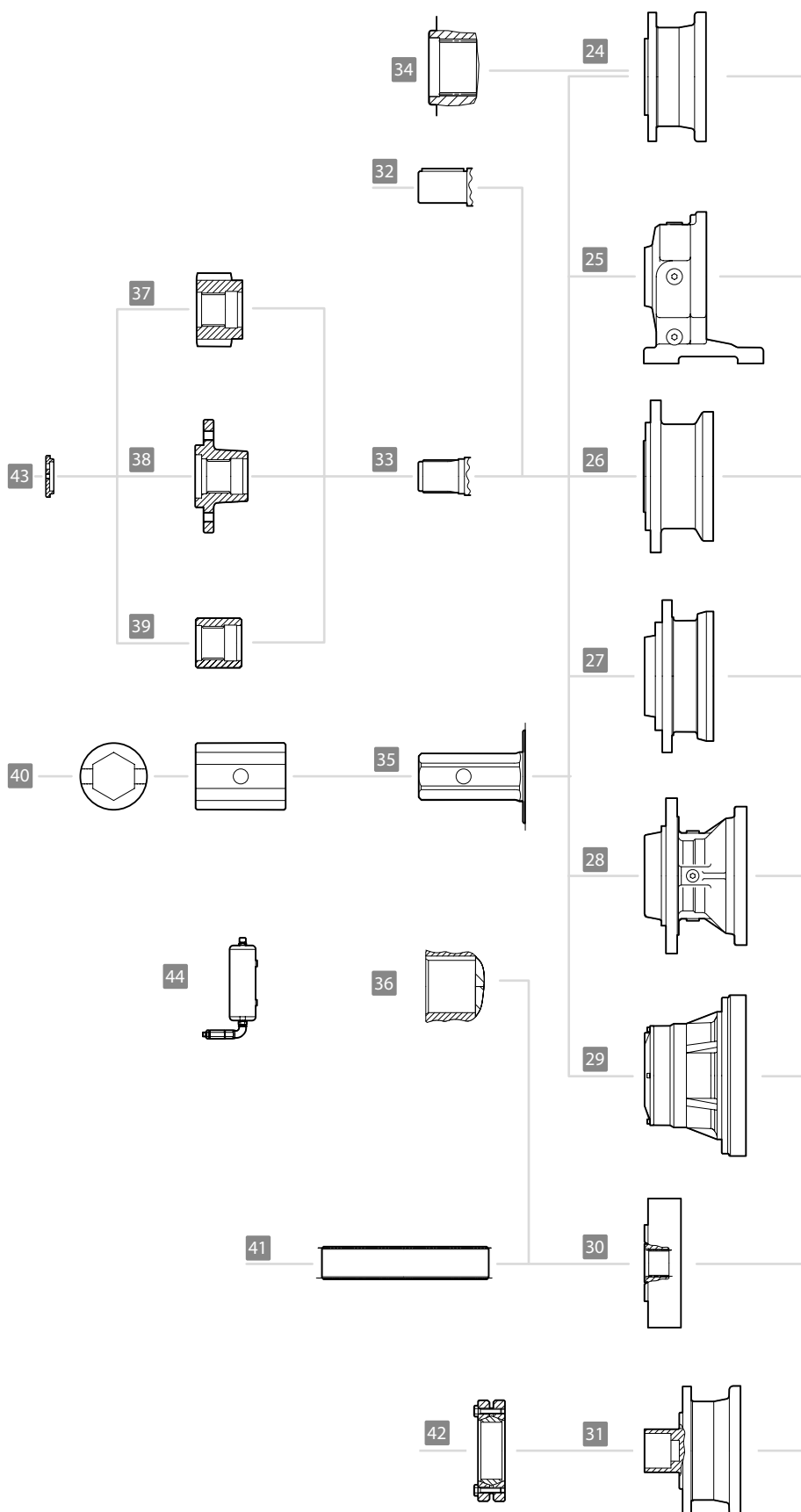
- 18 Riduttore angolare entrata diretta
- 19 Uno stadio di riduzione
- 20 Due stadi di riduzione
- 21 Tre stadi di riduzione
- 22 Quattro stadi di riduzione
- 23 Cinque stadi di riduzione

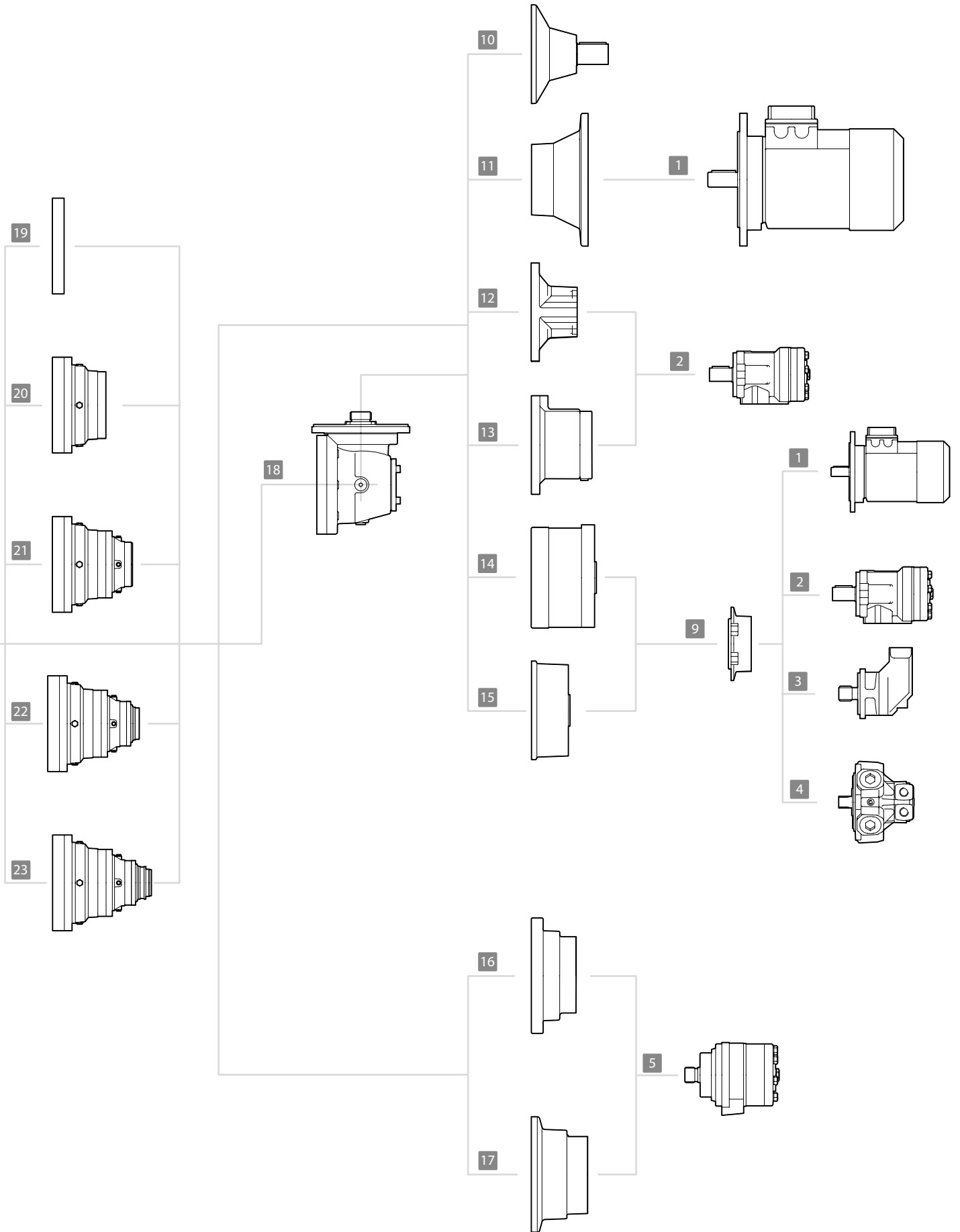
SUPPORTI E ALBERI DI USCITA

- 24 Supporto uscita "N"
- 25 Supporto uscita "P"
- 26 Supporto uscita "T"
- 27 Supporto uscita "TR"
- 28 Supporto uscita "TL"
- 29 Supporto uscita "H"
- 30 Supporto uscita "F"
- 31 Supporto uscita "NQ"
- 32 Albero uscita cilindrico
- 33 Albero uscita scanalato
- 34 Albero uscita femmina scanalato
- 35 Albero uscita esagonale
- 36 Albero uscita femmina cilindrico

ACCESSORI

- 37 Pignone "P"
- 38 Flangia "FL"
- 39 Boccia scanalata "BS"
- 40 Manicotto esagonale "ES"
- 41 Barra scanalata "BF"
- 42 Giunto di attrito "GA"
- 43 Fondello di arresto "EP"
- 44 Vaso di espansione "VE"





3.0 Definizioni tecniche

Tutti i valori prestazionali indicati nel presente catalogo sono calcolati secondo le normative ISO 6336 e ISO 281, ma potrebbero non rispondere a ulteriori requisiti richiesti dai regolamenti interni degli Enti certificatori. Per selezioni in accordo con tali regolamenti contattare il servizio commerciale Dinamic Oil.

f_s - Fattore di servizio

è il fattore che tiene conto della gravosità dell'applicazione; dipende dalle condizioni di funzionamento, dal tipo di azionamento e dalla frequenza degli avviamenti.

I dati forniti nel presente catalogo sono calcolati per $f_s = 1$.

Il valore del fattore di servizio di un riduttore è calcolabile dividendo la sua potenza nominale per la potenza assorbita.

Fattori di servizio (tab. 1)

| ore / giorno | CONDIZIONI DI FUNZIONAMENTO | | | | | | | | |
|--------------|-----------------------------|---------|----------|-------------------------------------|---------|----------|----------------------------------|---------|----------|
| | Uniforme U | | | Variabile con urti moderati M | | | Variabile con urti forti H | | |
| | AVVIAMENTI / ORA | | | | | | | | |
| | < 16 | 16 - 63 | 64 - 250 | < 16 | 16 - 63 | 64 - 250 | < 16 | 16 - 63 | 64 - 250 |
| < 0.5 | 0.9 | 1.3 | 1.5 | 0.9 | 1.3 | 1.5 | 1.2 | 1.5 | 1.8 |
| 0.5 - 3 | 0.9 | 1.3 | 1.5 | 1.2 | 1.5 | 1.8 | 1.7 | 2.0 | 2.3 |
| 3 - 8 | 1.2 | 1.5 | 1.8 | 1.4 | 1.8 | 2.0 | 1.9 | 2.3 | 2.8 |
| 8 - 24 | 1.4 | 1.8 | 2.0 | 1.7 | 2.0 | 2.5 | 2.4 | 2.8 | 3.0 |

P_1 - Potenza nominale [kW]

è la potenza meccanica trasmissibile dal riduttore, riferita all'ingresso, alla quale con $f_s = 1$ il riduttore ha una durata di vita teorica pari a 10.000 ore secondo la norma ISO 6336. Tale valore non tiene conto di eventuali limiti di capacità termica del riduttore, ma si basa esclusivamente sulla tenuta meccanica in funzione della velocità di utilizzo.

P_a - Potenza assorbita [kW]

rispetto alla potenza installata o disponibile, è il valore di potenza realmente assorbita dall'applicazione, riferita all'ingresso del riduttore.

P_t - Potenza termica [kW]

è la massima potenza meccanica che il riduttore può trasmettere in funzionamento continuo, con lubrificazione a sbattimento, senza oltrepassare il livello termico limite (temperatura dell'olio non superiore a 90°C).

Potenze superiori possono essere trasmesse utilizzando tenute in viton e oli sintetici o appositi dispositivi di raffreddamento. I valori indicati per le varie grandezze di riduttore si riferiscono ad un funzionamento continuo con velocità in ingresso di 1500 RPM, temperatura ambiente di 20°C, altitudine 0 / 500 m, applicazione al coperto.

Per diverse condizioni di impiego il valore di potenza termica deve essere moltiplicato per i fattori termici indicati nella seguente tabella. Per periodi di funzionamento limitati, seguiti da periodi di riposo sufficientemente lunghi da garantire un opportuno raffreddamento del riduttore, la potenza termica perde il suo significato e può essere trascurata.

Fattori termici (tab. 2)

| Temperatura ambiente | Tempo di funzionamento [%] | | | | |
|----------------------|----------------------------|-----|-----|-----|-----|
| | 100% | 80% | 60% | 40% | 20% |
| 10° | 1.2 | 1.3 | 1.4 | 1.6 | 1.8 |
| 20° | 1.0 | 1.1 | 1.3 | 1.4 | 1.6 |
| 30° | 0.8 | 1.0 | 1.1 | 1.3 | 1.4 |
| 40° | 0.7 | 0.8 | 1.0 | 1.1 | 1.3 |
| 50° | 0.5 | 0.7 | 0.8 | 1.0 | 1.1 |

| Altitudine [m] | Velocità in ingresso [RPM] | | | | |
|----------------|----------------------------|-----|------|------|------|
| | 400 | 800 | 1000 | 1500 | 2000 |
| 0 | 1.2 | 1.1 | 1.1 | 1.0 | 0.7 |
| 500 | 1.2 | 1.1 | 1.1 | 1.0 | 0.7 |
| 1000 | 1.1 | 1.0 | 1.0 | 0.9 | 0.6 |
| 1500 | 1.1 | 1.0 | 1.0 | 0.9 | 0.6 |
| 2000 | 1.1 | 1.0 | 1.0 | 0.9 | 0.6 |

P_d - Potenza da dissipare [kW]

rappresenta la potenza che un eventuale sistema di raffreddamento deve dissipare, nel caso in cui la potenza da trasmettere sia superiore alla potenza termica del riduttore.

η_m - Rendimento meccanico

è il rapporto tra potenza meccanica in uscita e potenza meccanica in ingresso; normalmente è considerato pari a 0.97 – 0.98 per ogni stadio di riduzione epicicloidale di cui è composto il riduttore e pari a 0.94 - 0.95 per l'eventuale coppia conica; il valore effettivo dipende da diversi fattori tra quali velocità, coppia, rapporto, posizione di montaggio e lubrificazione.

T_2 - Coppia trasmessa [Nm]

è il valore di coppia applicata in continuo alla velocità n_1 , alla quale il riduttore ha una durata di vita teorica di 10000 h per gli ingranaggi e 5000 h (L_{h10}) per i cuscinetti dell'ingranaggeria.

T_{max} - Coppia massima trasmissibile [Nm]

è la coppia massima trasmissibile dall'accessorio eventualmente fornito a corredo del riduttore. Questo valore potrebbe limitare la coppia massima trasmissibile dal riduttore.

T_{2max} - Coppia massima [Nm]

è la coppia massima d'uscita ammissibile come punta o per brevi durate (calcolata al 90% R_s del componente più debole). Per azionamenti che comportano un elevato numero di avviamenti o inversioni occorre considerare valori di coppia massima opportunamente ridotti.

Il valore indicato si riferisce alla versione con albero femmina scanalato (FS); versioni diverse potrebbero avere valori inferiori.

T_b - Coppia frenante [Nm]

è il valore della coppia frenante trasmissibile staticamente dal freno negativo.

n_1 - Velocità in ingresso [RPM]

è la velocità al lato veloce del riduttore.

n_2 - Velocità in uscita [RPM]

è la velocità al lato lento del riduttore.

n_{1max} - Velocità massima [RPM]

è la velocità massima in ingresso al freno. Per applicazioni con valori superiori rivolgersi al servizio commerciale Dinamic Oil per verificare la compatibilità con l'applicazione.

i_e - Rapporto di riduzione effettivo

è il rapporto di riduzione effettivo, cioè il rapporto tra la velocità di ingresso e quella di uscita dal riduttore.

n_{xh} - Indice di durata [RPMxh]

è il valore che equivale al prodotto tra la velocità e la durata di vita teorica espressa in ore. È espresso come n_2xh quando riferito alla velocità in uscita, come n_1xh quando riferito alla velocità in ingresso.

Valori indicativi delle durate richieste per diverse applicazioni (tab. 3)

| Applicazione | Ore di vita richieste |
|---|------------------------------|
| Macchine agricole | 300 - 3000 |
| Macchine con funzionamento intermittente o per brevi periodi (macchine per l'edilizia) | 3000 - 8000 |
| Macchine con funzionamento intermittente o per brevi periodi con alta affidabilità operativa (montacarichi) | 8000 - 12000 |
| Macchine con funzionamento per 8 ore al giorno, ma non pienamente utilizzate (macchine varie per l'industria, frantoi rotativi) | 10000 - 25000 |
| Macchine con funzionamento per 8 ore al giorno pienamente utilizzate (macchine varie per l'industria, nastri trasportatori) | 20000 - 30000 |
| Macchine con funzionamento continuo (laminatoi, macchine tessili) | 40000 - 50000 |

k_f - Fattore di correzione

è il fattore da applicare per calcolare la durata teorica dei supporti con alberi maschio per valori di n_{xh} diversi da quelli dei diagrammi riportati nel catalogo. Per tutti i riduttori le curve dei carichi esterni sono calcolate per:

- $n_2xh = 100.000$ per i supporti in uscita
- $n_1xh = 1.500.000$ per i supporti in ingresso

L_{min} - Lunghezza minima del braccio di reazione [mm]

è la lunghezza minima consigliata per il braccio di reazione da realizzarsi nelle applicazioni di tipo pendolare.

4.0 Selezione del riduttore

4.1 Selezione

La selezione del riduttore avviene sulla base del fattore di servizio richiesto dall'applicazione e della velocità richiesta in uscita. Una volta determinato il motore elettrico (nei termini di potenza e velocità nominale), occorre selezionare quel riduttore che abbia il rapporto di riduzione necessario per raggiungere il valore di velocità richiesto in uscita ed una potenza nominale tale che il rapporto tra il suo valore ed il valore della potenza nominale del motore è superiore al fattore di servizio.

$$i_e = n_1 / n_2$$

$$P_1 \geq P_a \times f_s$$

Tale selezione deve essere poi verificata in funzione di altri parametri, come potenza termica, coppia impulsiva ed eventuali carichi radiali o assiali agenti sugli alberi maschi di ingresso e di uscita.

In caso di azionamenti non elettrici applicare lo stesso metodo facendo riferimento alla coppia in uscita richiesta dall'applicazione anziché alla potenza nominale.

4.2 Verifiche

Supporti di uscita e di ingresso del riduttore:

devono essere verificati in base agli eventuali carichi radiali e assiali presenti. Per ogni modello vengono riportati nel catalogo i diagrammi che rappresentano i carichi radiali dinamici sopportabili secondo la normativa ISO 281 per una durata L10 corrispondente a $n_x h = 100.000$. Per durate differenti è possibile ottenere i carichi radiali applicabili moltiplicando i valori dei diagrammi per il fattore correttivo k_f . In ogni caso il carico radiale non deve mai essere superiore al valore massimo raggiunto dalla curva del diagramma.

Per quanto riguarda gli eventuali carichi assiali, occorre verificare che non superino il valore massimo ammesso.

Coppia in uscita:

non deve comunque mai superare la coppia massima trasmissibile del riduttore selezionato. Occorre verificare con particolare cura che questo valore sia superiore a quello della massima coppia erogabile dal motore installato riportata all'uscita del riduttore (cioè moltiplicata per il rapporto di riduzione effettivo e per il rendimento meccanico del riduttore)

Velocità in ingresso:

Per valori di velocità diverse da quelle in tabella, contattare l'ufficio commerciale.

Potenza termica:

nel caso in cui la potenza installata sia superiore alla potenza termica del riduttore, occorre selezionare un riduttore di grandezza superiore, utilizzare olio sintetico unitamente con l'impiego di tenute in viton oppure prevedere un circuito di raffreddamento.

Nel caso dell'impiego di tenute in viton ed olio sintetico, si può considerare il fattore termico equivalente ad una temperatura ambiente inferiore di 20°C rispetto a quella reale, simulando in questo modo il fatto che il riduttore può accettare un surriscaldamento di 20°C rispetto ai dati di progetto.

Nel caso di utilizzo di un sistema di raffreddamento, la potenza da dissipare è

$$P_d = (P_a - P_t) \cdot (1 - \eta_m)$$

5.0 Codice d'ordinazione

| | | | | | | | |
|-----------|-----------|----------|----------|----------|--|-------------|--|
| RA | 21 | 3 | P | S | | 78.7 | |
|-----------|-----------|----------|----------|----------|--|-------------|--|

VERSIONE USCITA G-2

ALBERO IN USCITA G-2

S = Scanalato maschio
 F = Scanalato femmina
 C = Cilindrico
 K = Cilindrico lungo
 E = Esagonale
 Q = Giunto di attrito
 FS = Femmina scanalato
 FC = Femmina cilindrico
 U = Femmina cilindrico

NUMERO STADI DI RIDUZIONE F-2

1 - 2 - 3 - 4 - 5 - 6

RAPPORTO DI RIDUZIONE F-2

Indicare il valore del rapporto (compreso virgola e decimale) riportato sulle pagine dei dati tecnici relative ad ogni grandezza

GRANDEZZA RIDUTTORE F-1

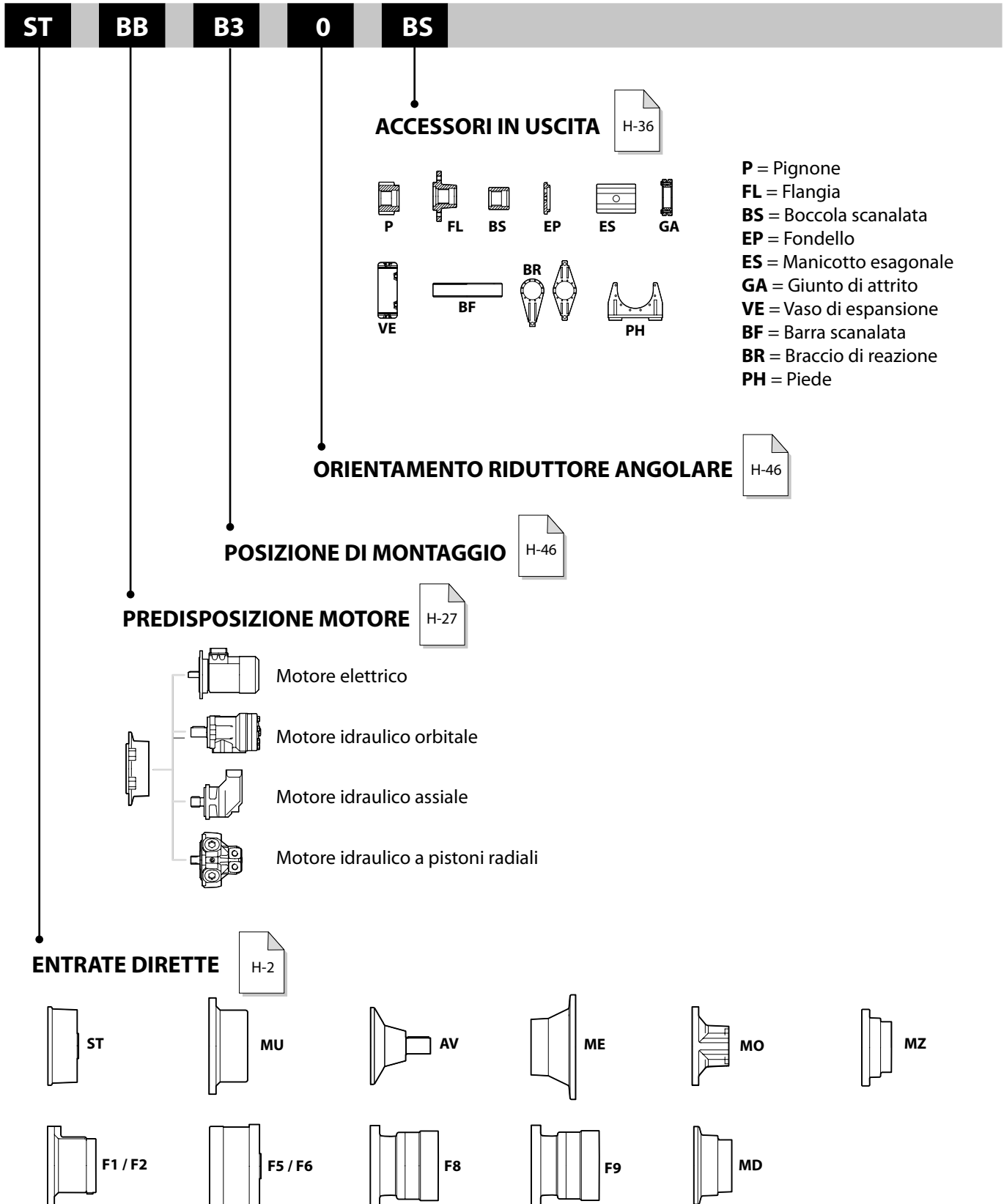
| RE - RA | RE - RA | GB - GBA | GB - GBA |
|---------|---------|----------|----------|
| 110 | 1520 | 12010 | 61000 |
| 210 | 2000 | 16000 | 85000 |
| 240 | 2520 | 21000 | 110000 |
| 310 | 3000 | 26000 | 130000 |
| 510 | 3510 | 31000 | GB |
| 610 | 4800 | 40000 | 150000 |
| 810 | 6000 | 45000 | 205000 |
| 1020 | 8000 | 53000 | 235000 |

COMPOSIZIONE F-2

/ = Standard
 L = Light
 R = Rinforzato
 S = Speciale

ESECUZIONE F-1

RE - GB = Lineare **RA - GBA = Angolare**



Nell'esempio è illustrato il codice di ordinazione di un riduttore planetario angolare, grandezza 210, tre stadi di riduzione, versione in uscita con i piedi e albero scanalato, rapporto di riduzione 78.7, entrata standard, predisposizione per motore "SAE B" albero 16/32 z=15, posizione di montaggio del riduttore in uscita orizzontale, orientamento del riduttore angolare standard, boccola scanalata in uscita

6.0 Freni idraulici negativi

6.1 Freni idraulici negativi a dischi multipli

I riduttori Dinamic Oil possono essere dotati di freno negativo statico a dischi multipli a comando idraulico.

I freni dal modello **F1** al modello **F2** sono previsti per il montaggio diretto di motori idraulici orbitali con flangiatura secondo norme SAE A.

I freni dal modello **F5** al modello **F6**, raggiungono coppie frenanti maggiori e sono predisposti con entrata integrale ST per il montaggio di flange e giunti di collegamento per una vasta gamma di motori in commercio.

I freni del modello **F8**, raggiungono coppie frenanti fino a 3.000 Nm ed sono predisposti con entrata integrale MU per il montaggio di flange e giunti di collegamento per una vasta gamma di motori in commercio.

I freni del modello **F9** raggiungono coppie frenanti fino a 1.500 Nm e possono avere la possibilità di montare un meccanismo a ruota libera fino alla coppia di 1.200 Nm. Sono predisposti con entrata "SAE C", "SAE D" ed entrata integrale ST. Tramite quest'ultima possono montare flange e giunti di collegamento per una vasta gamma di motori in commercio.

Il freno **MD** è montato all'interno di una flangia di collegamento diretto per motori MLR su stadi di riduzione RE110-240.

La frenatura è generata da molle che comprimono coppie di dischi fissi in acciaio temprato alternati a dischi mobili in bronzo; questa spinta si trasforma per attrito in coppia frenante.

L'apertura si ottiene introducendo nel freno olio idraulico in pressione; la pressione agisce su un pistone che comprime le molle permettendo ai dischi di ruotare liberamente. Si tratta di freni di stazionamento che agiscono creando una coppia frenante statica quando la pressione idraulica di comando è nulla. La loro azione cessa quando la pressione idraulica raggiunge il minimo valore per lo sbloccaggio.

Per i freni che hanno una camera di lubrificazione (F1, F2 e versioni standard di F5, F6 e F8) è necessario effettuare il riempimento (circa 0.1 l) con olio minerale di viscosità ISO VG 32.

Alcuni modelli di freni F5, F6, F8 ed F9 sono disponibili in versioni speciali che consentono valori elevati di velocità massima.

6.2 Selezione del freno

Occorre tenere in considerazione i seguenti parametri:

- Le coppie frenanti sono calcolate con pressione di comando nulla; nel caso di contropressioni nel circuito idraulico i valori effettivi di frenatura vanno ridotti come segue:

$$\text{Coppia effettiva} = \text{Coppia teorica} \times (\text{Pressione di apertura} - \text{Contropressione}) / \text{Pressione di inizio apertura.}$$

- La coppia del freno moltiplicata per il rapporto di riduzione e divisa per il rendimento del riduttore, deve essere maggiore o uguale alla coppia richiesta in uscita:

$$T_b \times i_e / \eta_m \geq T_2$$

- Ad eccezione di particolari casi, la coppia del freno moltiplicata per il rapporto di riduzione e divisa per il rendimento del riduttore, non deve superare la coppia massima del riduttore:

$$T_b \times i_e / \eta_m \leq T_{2\max}$$

7.0 Posizioni di montaggio

Per la completa definizione della forma costruttiva del riduttore occorre definire la posizione di montaggio. In base alla posizione è inoltre possibile determinare i tappi per riempimento, livello e scarico dell'olio.

Vedi pag. H46 - H48.

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8.0 Istruzioni di installazione

Le informazioni contenute nel presente capitolo non sono esaustive, ma rappresentano una sintesi parziale del manuale di uso e manutenzione al quale occorre fare sempre riferimento.

8.1 Installazione

Riduttori con flangia e albero maschio:

il telaio di accoppiamento deve avere la superficie di appoggio al riduttore non verniciata, piana, lavorata di macchina utensile e perpendicolare all'asse di rotazione. La tabella seguente mostra la tolleranza dei centraggi sugli accoppiamenti. Per la serie RE i centraggi hanno tolleranza H8.

| | | | | |
|------------|------|------------------|------------------|------------------|
| Diametri | [mm] | 80 - 120 | 120 - 180 | 180 - 250 |
| Tolleranze | [mm] | +0.054 0 | +0.063 0 | +0.072 0 |
| Diametri | [mm] | 250 - 315 | 315 - 400 | 400 - 500 |
| Tolleranze | [mm] | +0.081 0 | +0.089 0 | +0.097 0 |

I riduttori delle grandezze da RE1520 a RE8000 con uscita H sono provvisti di due diametri di centraggio. È sufficiente realizzare sulla struttura un solo centraggio, quello maggiore, quando sull'albero in uscita i carichi radiali non sono presenti o sono inferiori al 50% dei carichi massimi ammessi.

Per la gamma GB i centraggi hanno tolleranza F8.

| | | | | |
|------------|------|------------------|------------------|------------------|
| Diametri | [mm] | 80 - 120 | 120 - 180 | 180 - 250 |
| Tolleranze | [mm] | +0.186 +0.076 | +0.205 +0.080 | +0.226 +0.086 |

Riduttori con albero femmina scanalato:

i riduttori con supporto di uscita femmina non sono idonei a sopportare carichi radiali sull'uscita; è pertanto molto importante curare l'allineamento tra riduttore e albero condotto. Occorre inoltre verificare che l'albero condotto non subisca flessioni durante le fasi di lavoro.

Riduttori con fissaggio a piede:

il riduttore deve essere fissato su una superficie di appoggio piana ed essere in asse con la macchina condotta; è importante che ogni operazione di livellamento e allineamento venga eseguita con accuratezza. Un errato appoggio o un allineamento non corretto pregiudicano la vita del riduttore.

Riduttori con montaggio pendolare:

occorre realizzare un ancoraggio del braccio di reazione non vincolato nella direzione dell'asse del riduttore. L'ancoraggio deve inoltre essere opportunamente ammortizzato.

Nelle tavole dimensionali di ogni riduttore sono riportati i valori minimi di lunghezza del braccio di reazione per realizzare l'applicazione in modo corretto.

Coppie di serraggio e corrispondenti forze assiali esercitate dalle viti a passo grosso (tab. 4)

| | Classe 8.8 | | Classe 10.9 | | Classe 12.9 | |
|------------|-------------|-----------|-------------|-----------|-------------|-----------|
| | Coppia [Nm] | Forza [N] | Coppia [Nm] | Forza [N] | Coppia [Nm] | Forza [N] |
| M10 | 44 | 26000 | 62 | 37000 | 74.5 | 44000 |
| M12 | 77 | 37800 | 108 | 53000 | 130 | 64000 |
| M14 | 122 | 51500 | 172 | 72000 | 207 | 87000 |
| M16 | 191 | 70400 | 269 | 99000 | 323 | 119000 |
| M18 | 263 | 86000 | 370 | 121000 | 444 | 145000 |
| M20 | 373 | 110000 | 525 | 154000 | 630 | 185000 |
| M22 | 507 | 138000 | 714 | 191000 | 857 | 229000 |
| M24 | 645 | 158000 | 908 | 222000 | 1090 | 267000 |
| M27 | 944 | 206000 | 1330 | 289000 | 1590 | 347000 |
| M30 | 1280 | 251000 | 1800 | 353000 | 2160 | 424000 |
| M33 | 1740 | 311000 | 2460 | 437000 | 2940 | 525000 |
| M36 | 2240 | 366000 | 3150 | 515000 | 3780 | 618000 |
| M39 | 2900 | 437000 | 4080 | 615000 | 4890 | 738000 |
| M42 | 3580 | 502000 | 5040 | 706000 | 6050 | 847000 |

8.2 Lubrificazione

I riduttori sono forniti senza olio.

Prima della messa in funzione occorre riempire il riduttore fino al livello previsto con uno degli oli lubrificanti consigliati. La scelta e la quantità dell'olio saranno demandate all'installatore / utilizzatore in base al tipo di applicazione.

8.3 Vernice

I riduttori sono forniti non verniciati. Alcune parti sono trattate con uno strato di fondo idrosolubile estere epossidico rosso ossido. È cura del cliente realizzare la finitura utilizzando una vernice compatibile con quella di fondo. Gli anelli di tenuta devono essere protetti durante la verniciatura.

8.4 Montaggio dei motori a flangia

Il montaggio dei motori alle flange di accoppiamento fornite da Dinamic Oil è un'operazione particolarmente semplice, ma da eseguire seguendo alcuni importanti suggerimenti:

- lubrificare l'accoppiamento con un leggero velo di grasso o lubrificante anti-grippaggio;
- assicurarsi che il motore vada liberamente a battuta sulla flangia di fissaggio del riduttore senza forzare né sull'albero né sul centraggio;
- serrare le viti.

Per ulteriori informazioni si faccia riferimento al manuale d'uso e manutenzione.

8.5 Montaggio dei motori con giunto di collegamento

Quando vengono utilizzati giunti di collegamento fra motore e riduttore, bisogna verificare che l'allineamento deve essere compatibile col tipo di giunto utilizzato. I giunti sono largamente usati in applicazioni industriali per le varie funzioni che essi possono svolgere come:

- limitare la coppia in ingresso,
- smorzare vibrazioni provenienti dal motore,
- compensare piccoli disallineamenti.

Nell'applicazione dei giunti si faccia riferimento ai manuali d'uso dei fornitori di detto componente.

8.6 Peso dei riduttori

I pesi dei vari riduttori sono riportati, a titolo indicativo, a pag. H52.

9.0 Stoccaggio

Le informazioni contenute nel presente capitolo non sono esaustive, ma rappresentano una sintesi parziale del manuale di uso e manutenzione al quale occorre fare sempre riferimento.

I riduttori non devono essere conservati all'aperto o a diretto contatto con il suolo. Per lunghi periodi di stoccaggio devono essere riempiti d'olio, con le parti esterne lavorate ricoperte di grasso; le superfici di accoppiamento vanno protette con agenti antiossidanti, i tappi di sfiato sostituiti con tappi chiusi e si raccomanda l'azionamento a vuoto (è sufficiente una rotazione completa dell'albero di uscita) almeno ogni due mesi.

Per maggiori informazioni sullo stoccaggio si faccia riferimento al manuale d'uso e manutenzione.

10.0 Lubrificazione

10.1 Tipo di lubrificazione

La lubrificazione dei riduttori avviene per bagno d'olio; prima della messa in funzione del riduttore occorre procedere al riempimento d'olio, accertandosi visivamente attraverso il tappo di livello che sia raggiunto il livello corretto; tale operazione richiede particolare attenzione e si deve verificare nuovamente, dopo pochi minuti di funzionamento, che il livello sia stato effettuato correttamente. Le quantità d'olio a catalogo sono indicative e variano in funzione del rapporto di riduzione e del tipo di ingresso e di uscita del riduttore.

10.2 Scelta dell'olio

Può essere impiegato qualunque olio per trasmissioni meccaniche con additivazione EP che soddisfi la classe di viscosità da ISO VG220 a ISO VG320 secondo ISO 3448. In casi particolari possono essere utilizzati oli con viscosità diverse; in tal caso contattare il servizio tecnico Dinamic Oil. La viscosità dell'olio deve essere selezionata in funzione della temperatura ambiente e della reale temperatura di lavoro del riduttore. Per riduttori che devono operare a temperature ambiente molto elevate o con forte escursione termica si raccomanda l'uso di oli a base sintetica. Nei riduttori con montaggio verticale e funzionamento continuo l'olio può subire un elevato surriscaldamento; in questi casi si rende necessario un serbatoio esterno (che può essere fornito da Dinamic Oil) per consentire all'olio di espandersi per effetto della sua dilatazione termica.

10.3 Cambio dell'olio

Il cambio dell'olio deve essere effettuato dopo le prime 150 ore di lavoro, successivamente secondo le tempistiche della tabella seguente, o almeno ogni 2 anni.

Durata media di funzionamento secondo il tipo di olio

| Temperatura di funzionamento [°C] | Tipo di olio | | |
|-----------------------------------|-------------------|-----------------------|------------------|
| | Olio minerale [h] | Olio sintetico [h] | |
| | | Polialfaolefine (PAO) | Poliglicoli (PG) |
| 70° | 7000 | 15000 | 16000 |
| 80° | 5000 | 10000 | 12000 |
| 90° | 3000 | 7500 | 9000 |

10.4 Quantità di olio

Le quantità di olio per la corretta lubrificazione dei riduttori sono riportate, a titolo indicativo, da pag. H49.

10.5 Lubrificanti consigliati

Viscosità consigliata (tab. 5)

| ISO VG 3448 | TEMPERATURA DI FUNZIONAMENTO [C°] | | | | | | | | | | | | |
|-------------|-----------------------------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | Temperatura ambiente [C°] | | | | | | | | | | | | |
| | -20° | -10° | 0 | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
| 220 | | | | | | | | | | | | | |
| 320 | | | | | | | | | | | | | |

Lubrificanti raccomandati (tab. 6)

Lubrificanti per uso generale

| Produttore | Olio minerale | Olio sintetico | |
|------------|-----------------|-----------------------|------------------|
| | | Polialfaolefine (PAO) | Poliglicoli (PG) |
| AGIP | Blasia | Blasia SX | Blasia S |
| ARAL | Degol BG | | Degol GS |
| BP | Energol GR-XP | Energol EPX | Energol HTX |
| CASTROL | Alpha SP | Alphasyn EP | Alphasyn PG |
| CHEVRON | Ultra Gear | Tegra Synthetic | HiPerSYN |
| DEA | Falcon CLP | | |
| ELF | Reductelf SP | Elf Syntherma | Elf Syntherma |
| ESSO | Spartan EP | Spartan S EP | Glycolube |
| FINA | Giran | | |
| IP | Mellana | | Telesia Oil |
| KLÜBER | Kluberoil GEM 1 | Klubersynt EG4 | Klubersynt GH6 |
| MOBIL | Mobilgear XMP | Mobilgear SHC | Glygoile |
| OPTIMOL | Ultra | | |
| Q8 | Goya | El Greco | El Greco |
| SHELL | Omala S2 G | Omala S4 GX | Omala S4 WE |
| TOTAL | Carter EP | Carter SH | Carter SY |

Lubrificanti per uso alimentare

| Produttore | Olio per ingranaggi |
|------------|--------------------------|
| AGIP | Rocol Foodlube Hi-Torque |
| ESSO | Gear Oil FM |
| KLÜBER | Kluberoil 4 UH1 N |
| MOBIL | DTE FM |
| SHELL | Cassida Fluid GL |

10.6 Temperatura

La temperatura ambiente consigliata, per l'utilizzo di riduttori standard, dovrà essere compresa fra -15°C e +40°C.

11.0 Unità autonome di raffreddamento

Quando la potenza trasmessa è superiore alla potenza termica dissipabile dal riduttore, è necessario l'impiego di un'unità di raffreddamento, in grado di smaltire la potenza termica in eccedenza.

Dinamic Oil propone una serie di unità autonome di raffreddamento, olio-acqua ed olio-aria, in grado di dissipare fino a 50kW. Per potenze superiori contattare l'ufficio tecnico.

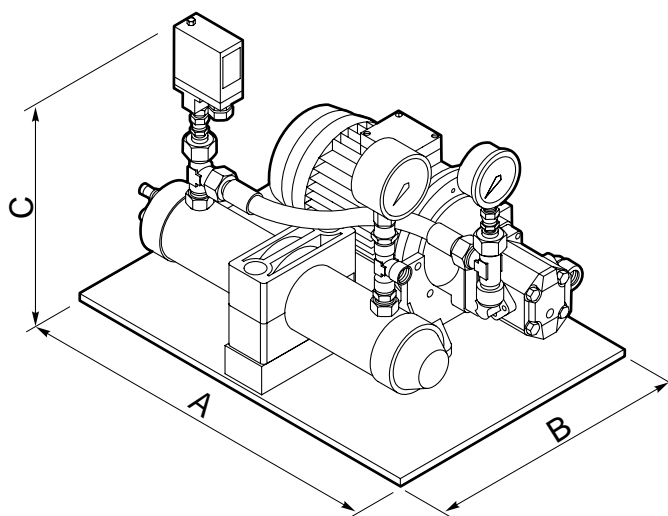
11.1 Unità autonome di raffreddamento olio-acqua, composizione standard e personalizzata

Le unità di raffreddamento serie URO/W standard sono composte da:

- Uno scambiatore di calore acqua-olio.
- Una motopompa (collegamento motore-pompa con giunto e supporto; pompa con tenute al viton) composta da un motore a 4 poli in forma B5, alimentazione standard trifase 230/400V - 50Hz e da una pompa ad ingranaggi.
- Manometro 0-16 bar montato fra pompa e scambiatore di calore.
- Termometro analogico 0-120 °C, montato in uscita dallo scambiatore.
- Filtro, da installare in mandata al serbatoio, per la pulizia dell'olio scaricato (opzione consigliata).

Per un'esecuzione personalizzata è possibile equipaggiare l'unità con i seguenti optional:

- Pressostato di minima con contatti in scambio, da montare fra pompa e scambiatore di calore. (In questo caso è già presente la predisposizione sull'impianto idraulico).
- Flussostato elettrico per il totale controllo della portata dell'olio.



| Unità | Capacità | Motopompa olio | | Portata acqua | A | B | C |
|-----------------|----------|----------------|---------|---------------|-----|-----|-----|
| | [kW]* | [kW] | [l/min] | [l/min]* | | | |
| URO/W 4 | 4 | 0.37 | 16 | 8 | 500 | 350 | 400 |
| URO/W 6 | 6 | 0.37 | 16 | 10 | 500 | 350 | 400 |
| URO/W 9 | 9 | 0.55 | 16 | 16 | 500 | 350 | 400 |
| URO/W 13 | 13 | 1.1 | 30 | 25 | 500 | 350 | 400 |
| URO/W 21 | 21 | 1.5 | 30 | 40 | 500 | 400 | 450 |
| URO/W 31 | 31 | 2.2 | 56 | 50 | 720 | 510 | 520 |
| URO/W 50 | 50 | 3.0 | 80 | 80 | 730 | 520 | 520 |

* I valori indicati in tabella sono riferiti ad una temperatura dell'acqua di 20° C.

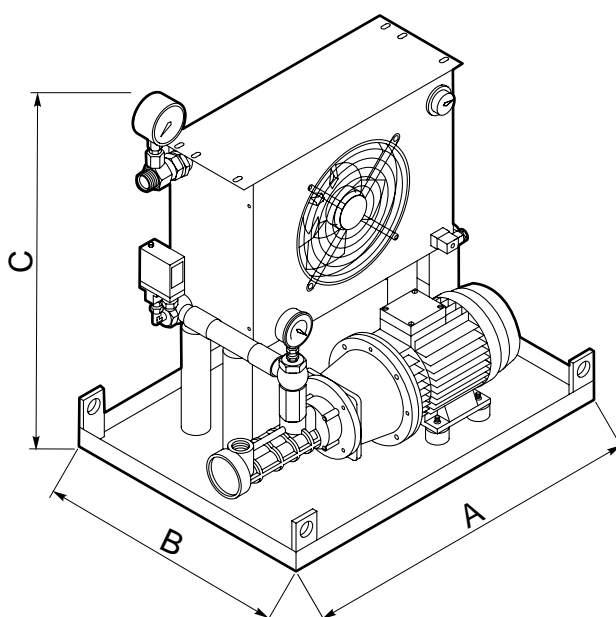
11.2 Unità autonome di raffreddamento olio-aria, composizione standard e personalizzata

Le unità di raffreddamento serie URO/A standard sono composte da:

- Uno scambiatore di calore aria-olio completo di ventilatore e termostato regolabile 0-90 ° C già cablato.
- Una motopompa collegamento motore-pompa con giunto e supporto , pompa con tenuta al viton) composto da un motore a 4 poli in forma B3/B5, alimentazione standard 230/400V - 50Hz e da una pompa a vite.
- Manometro 0-16 bar montato fra pompa e scambiatore di calore.
- Termometro analogico 0-120 °C, montato in uscita dallo scambiatore.
- Filtro, da installare in mandata al serbatoio, per la pulizia dell'olio scaricato (opzione consigliata).

Per un'esecuzione personalizzata è possibile equipaggiare l'unità con i seguenti optional:

- Pressostato di minima con contatti in scambio, da montare fra pompa e scambiatore di calore. (In questo caso è già presente la predisposizione sull'impianto idraulico).
- Flussostato elettrico per il totale controllo della portata dell'olio.



| Unità | Capacità [kW]* | Motopompa olio | | Motoventilatore | | A | B | C |
|-----------------|-------------------|----------------|---------|-----------------|--------|------|-----|------|
| | | [kW] | [l/min] | [kW] | [m³/h] | | | |
| URO/A 5 | 5 | 1.5 | 30 | 0.12 | 900 | 660 | 430 | 700 |
| URO/A 7 | 7 | 1.5 | 30 | 0.12 | 1300 | 710 | 510 | 700 |
| URO/A 10 | 10 | 1.5 | 30 | 0.18 | 2750 | 710 | 510 | 830 |
| URO/A 13 | 13 | 1.5 | 30 | 0.23 | 2750 | 710 | 510 | 830 |
| URO/A 16 | 16 | 2.2 | 56 | 0.23 | 3500 | 710 | 510 | 1010 |
| URO/A 21 | 21 | 2.2 | 56 | 0.56 | 6300 | 800 | 500 | 1200 |
| URO/A 26 | 26 | 3 | 56 | 0.56 | 7450 | 800 | 500 | 1265 |
| URO/A 30 | 30 | 3 | 80 | 0.56 | 7450 | 800 | 500 | 1265 |
| URO/A 40 | 40 | 2.2 | 56 | 0.9 | 9500 | 1010 | 600 | 1350 |
| URO/A 46 | 46 | 3 | 80 | 0.9 | 9500 | 1010 | 600 | 1350 |

* I valori indicati in tabella sono riferiti ad una temperatura dell'aria di 20° C.

To meet the needs of an increasingly demanding and selective market Dinamic Oil have completely updated their RE and GB ranges of planetary gearboxes. With the introduction of new sizes the already comprehensive product lines have been extended and enhanced in line with feedback from the power transmission market.

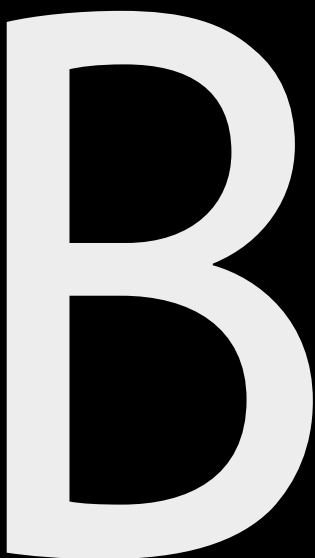
Planetary gearboxes are suited to a broad range of applications covering the high overload characteristics found in the mobile industry to the longevity and reliability requirements of the industrial sector.

In the mobile market Dinamic Oil products can be found in machinery for lifting & transportation, building and construction, agriculture & marine; specific applications include concrete pumps, excavators, cranes and aerial platforms, in fact anywhere rotational movement is required. The use of planetary gearboxes for industrial applications is growing rapidly and they are now common in sheet metal, steel, plastics water treatment, chemical, energy mining and process industries.

The new 2012 catalogue facilitates quick & easy preliminary gearbox selection based on the transmissible power adjusted by the appropriate service factors. However, the Dinamic Oil Technical Sales Department is at your disposal providing a wealth of experience backed by the latest technology to provide confirmation and ensure the most cost effective solution in accordance with relevant standards.

The catalogue illustrates the range of gearboxes in production at the time of going to press with maximum torque capacity between 1000Nm and 3,000,000Nm. If your requirements fall outside this range please contact us.

The renowned versatility of Dinamic Oil gearboxes has been further expanded with the introduction of new input and output adaptors and accessories to make this the most comprehensive transmission system on the market



Contents



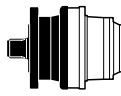
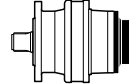
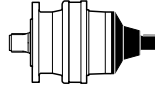



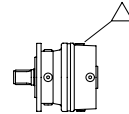
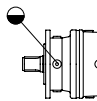
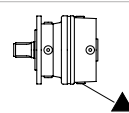
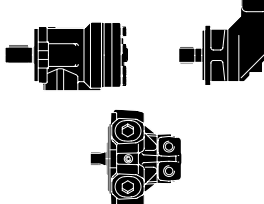


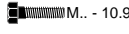


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1.0 Symbols and Unit of Measurement

| Symbol | Unit of measurement | Description |
|-------------------------|---------------------|--------------------------------|
| -1 | | Input value |
| -2 | | Output value |
| bu | mm | Height of toothed set |
| de | mm | External diameter |
| dp | mm | Theoretical primitive diameter |
| fa | N | Axial load |
| f_{amax} | N | Maximum axial load |
| f_r | N | Radial load |
| H | mm | Pinion height |
| i_e | - | Effective reduction ratio |
| m | mm | Module |
| n | RPM | Speed |
| n_{max} | RPM | Maximum speed |
| nxh | RPMxh | Duration index |
| P₁ | kW | Rated power |
| pb | bar | Brake opening pressure |
| pmax | bar | Maximum brake pressure |
| P_t | kW | Thermal power |
| T | Nm | Torque |
| T_b | Nm | Braking torque |
| T_{max} | Nm | Maximum torque |
| X | mm | Load application distance |
| x | - | Tooth correction |
| z | - | Number of teeth |

| Symbol | Description |
|--|--------------------------|
|  | Support at output |
|  | Input |
|  | Support at input |
|  ...Nm | Tightening torque [Nm] |
|  | Oil quantity [liters] |
|  | Weight [kg] |
|  | Oil fill / breather plug |
|  | Oil level |
|  | Oil drain |
|  | Hydraulic motors |
|  | Electrical motors |
|  | Wormgearbox |
|  M.. - 10.9  M.. - 12.9 | Recommended screw |
|  | Reference page |

2.0 Construction Options

USABLE MOTORS

- 1 Electric motor
- 2 Orbital hydraulic motor
- 3 Hydraulic motor with axial pistons
- 4 Hydraulic motor with radial pistons
- 5 Orbital hydraulic motor "MLR"

TYPES OF INPUT

- 9 Preparation for motor connection
- 10 Input shaft
- 11 Direct electric motor adapter
- 12 Direct orbital motor adapter
- 13 Negative brake "F1../F2.."
- 14 Negative brake "F5../F6../F8../F9"
- 15 Standard flange
- 16 Adaptor "MZ"
- 17 Adaptor "MD"

REDUCTION STAGES

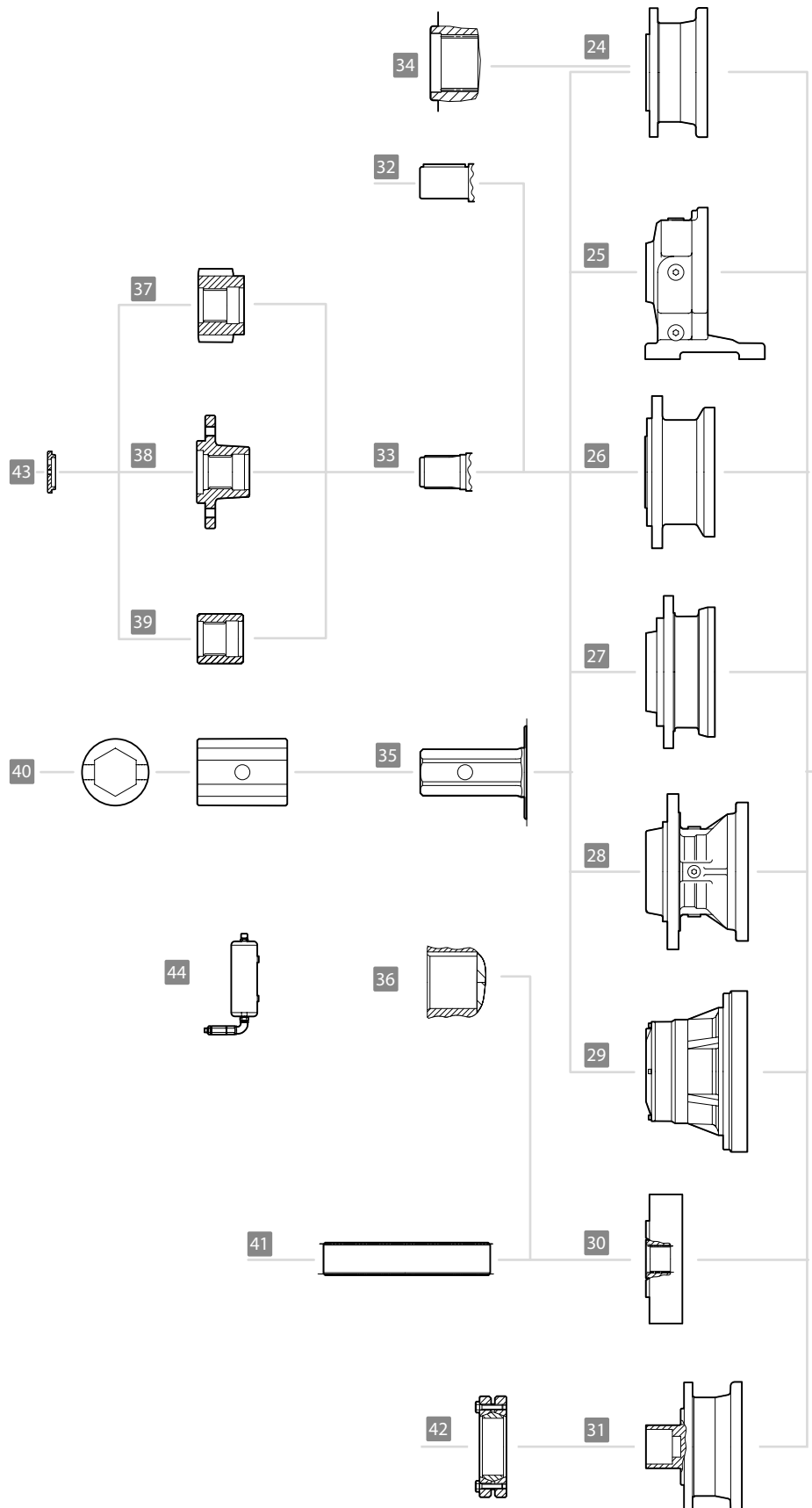
- 18 Angular gearbox with direct input
- 19 One reduction stage
- 20 Two reduction stages
- 21 Three reduction stages
- 22 Four reduction stages
- 23 Five reduction stages

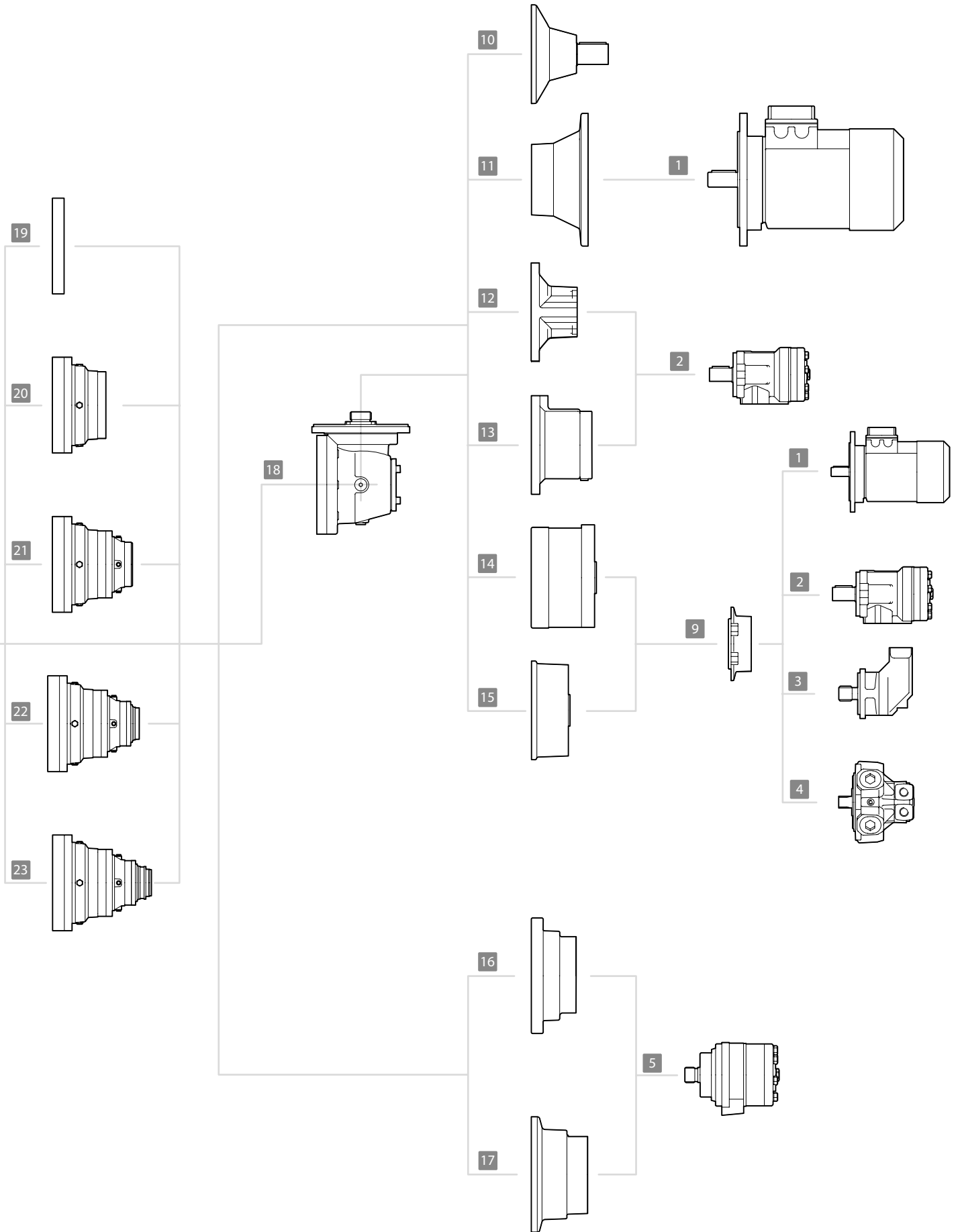
SUPPORTS AND OUTPUT SHAFTS

- 24 Output support "N"
- 25 Output support "P"
- 26 Output support "T"
- 27 Output support "TR"
- 28 Output support "TL"
- 29 Output support "H"
- 30 Output support "F"
- 31 Output support "NQ"
- 32 Cylindrical output shaft
- 33 Splined output support
- 34 Female splined output shaft
- 35 Hexagonal output shaft
- 36 Female cylindrical output shaft

ACCESSORIES

- 37 Pinion "P"
- 38 Flange "FL"
- 39 Splined bushing "BS"
- 40 Hexagonal bushing "ES"
- 41 Splined bar "BF"
- 42 Shrink disk "GA"
- 43 End plate "EP"
- 44 Oil expansion tank "VE"





3.0 Technical Definitions

All values specified in this catalogue were calculated using the ISO 6336 and ISO 281 standards, but may not meet additional requirements set by the internal regulations of certifying bodies.

To select products that comply with these regulations, contact Dinamic Oil's sales team.

f_s - Service Factor

this factor represents the application's industrial rating; it depends on operating conditions, type of drive and frequency of start-up.

The information provided in this catalog is calculated for $f_s = 1$. The service factor value of a gearbox may be calculated by dividing its nominal power by its absorbed power.

Service factors (tab. 1)

| hours / day | OPERATING CONDITIONS | | | | | | | | |
|-------------|----------------------|---------|----------|---------------------------|---------|----------|------------------------|---------|----------|
| | Uniform U | | | With moderate shocks M | | | With heavy shocks H | | |
| | START-UPS / HOUR | | | | | | | | |
| | < 16 | 16 - 63 | 64 - 250 | < 16 | 16 - 63 | 64 - 250 | < 16 | 16 - 63 | 64 - 250 |
| < 0.5 | 0.9 | 1.3 | 1.5 | 0.9 | 1.3 | 1.5 | 1.2 | 1.5 | 1.8 |
| 0.5 - 3 | 0.9 | 1.3 | 1.5 | 1.2 | 1.5 | 1.8 | 1.7 | 2.0 | 2.3 |
| 3 - 8 | 1.2 | 1.5 | 1.8 | 1.4 | 1.8 | 2.0 | 1.9 | 2.3 | 2.8 |
| 8 - 24 | 1.4 | 1.8 | 2.0 | 1.7 | 2.0 | 2.5 | 2.4 | 2.8 | 3.0 |

P_1 - Nominal Power [kW]

the mechanical power transmitted by the gearbox, related to input. At $f_s = 1$ the gearbox has a theoretical lifetime of 10000 hours under the ISO 6336 standard. This value does not take into account any limits on the gearbox's thermal capacity, as it is exclusively based on mechanical resistance in accordance with the speed of use.

P_a - Absorbed Power [kW]

relates to installed or available power, the amount of power actually absorbed by the application, at the gearbox input

P_t - Thermal Power [kW]

the maximum mechanical power the gearbox can transmit while in continuous operation, with splash lubrication, without going beyond its maximum temperature level (oil temperature below 90°C). More power may be transmitted using a Viton seal and synthetic oils or special cooling devices. The values indicated for various gearbox sizes refer to continuous operation with input speeds of 1500 RPM, at an ambient temperature of 20°C and an altitude of 0 / 500 m, for indoor applications.

Under different conditions of use, thermal power must be multiplied by the thermal factors identified in the tables below. For limited periods of operation, followed by periods of rest long enough to guarantee sufficient cooling of the gearbox, thermal power loses its significance and may be neglected.

Thermal Factors (tab. 2)

| Ambient Temperature | Operating Time [%] | | | | |
|---------------------|--------------------|-----|-----|-----|-----|
| | 100% | 80% | 60% | 40% | 20% |
| 10° | 1.2 | 1.3 | 1.4 | 1.6 | 1.8 |
| 20° | 1.0 | 1.1 | 1.3 | 1.4 | 1.6 |
| 30° | 0.8 | 1.0 | 1.1 | 1.3 | 1.4 |
| 40° | 0.7 | 0.8 | 1.0 | 1.1 | 1.3 |
| 50° | 0.5 | 0.7 | 0.8 | 1.0 | 1.1 |

| Altitude [m] | Input Speed [RPM] | | | | |
|--------------|-------------------|-----|------|------|------|
| | 400 | 800 | 1000 | 1500 | 2000 |
| 0 | 1.2 | 1.1 | 1.1 | 1.0 | 0.7 |
| 500 | 1.2 | 1.1 | 1.1 | 1.0 | 0.7 |
| 1000 | 1.1 | 1.0 | 1.0 | 0.9 | 0.6 |
| 1500 | 1.1 | 1.0 | 1.0 | 0.9 | 0.6 |
| 2000 | 1.1 | 1.0 | 1.0 | 0.9 | 0.6 |

P_d - Power to be Dissipated [kW]

the power that a cooling system must dissipate if the power to be transmitted exceeds the gearbox's thermal power.

η_m - Mechanical Efficiency

The ratio between mechanical power output and input; normally considered equal to 0.97 ÷ 0.98 for each epicycloidal reduction stage in the gearbox, and equal to 0.94 ÷ 0.95 for bevel gear; the actual value depends on a number of factors including speed, torque, ratio, assembly position and lubrication.

T_2 - Torque Transmitted [Nm]

this value represents torque continuously applied at a speed of n_1 , at which the gearbox has a theoretical lifetime of 10000 h for gears, or 5000 h (L_{h10}) for the bearings in gear mechanisms.

T_{max} - Maximum Transmissible torque [Nm]

the maximum torque transmitted by the accessory supplied with the gearbox, if applicable. This value may limit the maximum transmissible torque of the gearbox.

T_{2max} - Maximum Torque [Nm]

the maximum admissible output torque, as a peak value or for brief periods of time (calculated at 90% Rs of the weakest component).

For drives with a high number of start-ups or inversions, appropriately reduced maximum torque values should be considered.

The value specified refers to the version with a splined female shaft (FS); different versions may have lower values.

T_b - Braking Torque [Nm]

the value of braking torque that may be conveyed statically by the negative brake.

n_1 - Input Speed [RPM]

the speed on the fast side of the gearbox.

n_2 - Output Speed [RPM]

the speed on the slow side of the gearbox.

n_{1max} - Maximum Speed [RPM]

the maximum input speed at the brake. For applications with higher values, contact Dinamic Oil's sales service to determine application compatibility.

i_e - Effective Reduction Ratio

the actual reduction ratio, meaning the ratio between the gearbox's input and output speeds.

n_{xh} - Duration Index [RPMxh]

the value of the product between speed and duration of theoretical lifetime in hours. This value is expressed as n_2xh when used with output speed, n_1xh with used with input speed.

Duration Values Required for Different Applications (tab. 3)

| Application | Required Lifetime |
|---|--------------------------|
| Agricultural machinery | 300 - 3000 |
| Machines operated intermittently or for short periods of time (construction machines) | 3000 - 8000 |
| Machines operated intermittently or for short periods of time with high operational reliability (freight lifts) | 8000 - 12000 |
| Machines operated 8 hours a day but not all the time (various industrial machines, rotary mills) | 10000 - 25000 |
| Machines operated 8 hours a day all the time (various industrial machines, conveyor belts) | 20000 - 30000 |
| Machines operated continuously (rolling mills, textiles machines) | 40000 - 50000 |

k_f - Correction Factor

the factor applied to calculate the theoretical lifetime of bearings with male shafts for values of n_{xh} other than those shown in catalog diagrams. External load curves are calculated for all gearboxes as:

- $n_2xh = 100000$ for output supports
- $n_1xh = 1500000$ for input supports

L_{min} - Minimum Length of Torque Arm [mm]

the minimum length recommended for the torque arm, applied to pendular applications.

4.0 Gearbox selection

4.1 Selection

Gearbox selection is based on the service factor required by the application and the required output speed. Once the electric motor has been determined (in terms of nominal speed and power), select the gearbox with the reduction ratio required to reach the required output speed and nominal power needed to ensure that the ratio between its value and the value of the motor's rated power is higher than the service factor.

$$i_e = n_1 / n_2$$

$$P_1 \geq P_a \times f_s$$

Confirm the selection with other parameters such as thermal power, impulse torque and any radial or axial loads acting on the male input and output shafts.

If the drive is not electric, apply the same method for the output torque required by the application rather than the nominal power.

4.2 Verification

Gearbox input and output supports:

these must be verified based on any radial and axial loads present. For each model, the catalog provides diagrams representing the dynamic radial loads that may be supported in accordance with the ISO 281 standard with a duration of L_{10} corresponding to $n_x h = 100000$. For different durations, an applicable radial load can be calculated by multiplying the values in the diagrams by the corrective factor k_f .

The radial load cannot in any case exceed the maximum value on the curve in the diagram.

Make sure that if there are axial loads, they do not exceed the maximum permitted value.

Output torque:

this must never exceed the maximum transmissible torque of the selected gearbox. Carefully check that this value is higher than the maximum torque deliverable by the motor installed, shown at the gearbox output (that is, multiplied by the actual reduction ratio and the gearbox's mechanical yield).

Input speed:

for speeds other than those shown in the table, please contact the sales office.

Thermal power:

if installed power exceeds the gearbox's thermal power, select a larger gearbox and use synthetic oil with Viton seals or use a cooling circuit.

If you use Viton seals and synthetic oil, you may consider the thermal factor equivalent to an ambient temperature lower than 20°C with respect to the actual temperature, in order to consider the fact that the gearbox can withstand overheating 20°C over the projected data.

If you use a cooling system, the power to be dissipated is

$$P_d = (P_a - P_t) \cdot (1 - \eta_m)$$

5.0 Order code

| | | | | | | | |
|-----------|-----------|----------|----------|----------|--|-------------|--|
| RA | 21 | 3 | P | S | | 78.7 | |
|-----------|-----------|----------|----------|----------|--|-------------|--|

OUTPUT VERSION G-2

NUMBER OF STAGES F-2

1 - 2 - 3 - 4 - 5 - 6

GEARBOX FRAME SIZE F-1

| RE - RA | RE - RA | GB - GBA | GB - GBA |
|---------|---------|----------|----------|
| 110 | 1520 | 12010 | 61000 |
| 210 | 2000 | 16000 | 85000 |
| 240 | 2520 | 21000 | 110000 |
| 310 | 3000 | 26000 | 130000 |
| 510 | 3510 | 31000 | GB |
| 610 | 4800 | 40000 | 150000 |
| 810 | 6000 | 45000 | 205000 |
| 1020 | 8000 | 53000 | 235000 |

OUTPUT SHAFT G-2

- S = Male spline
- F = Female spline
- C = Cylindrical shaft
- K = Extended cylindrical shaft
- E = Hexagonal shaft
- Q = Hollow female shaft
- FS = Female spline
- FC = Female cylindrical shaft
- U = Female cylindrical shaft

REDUCTION RATIO F-2

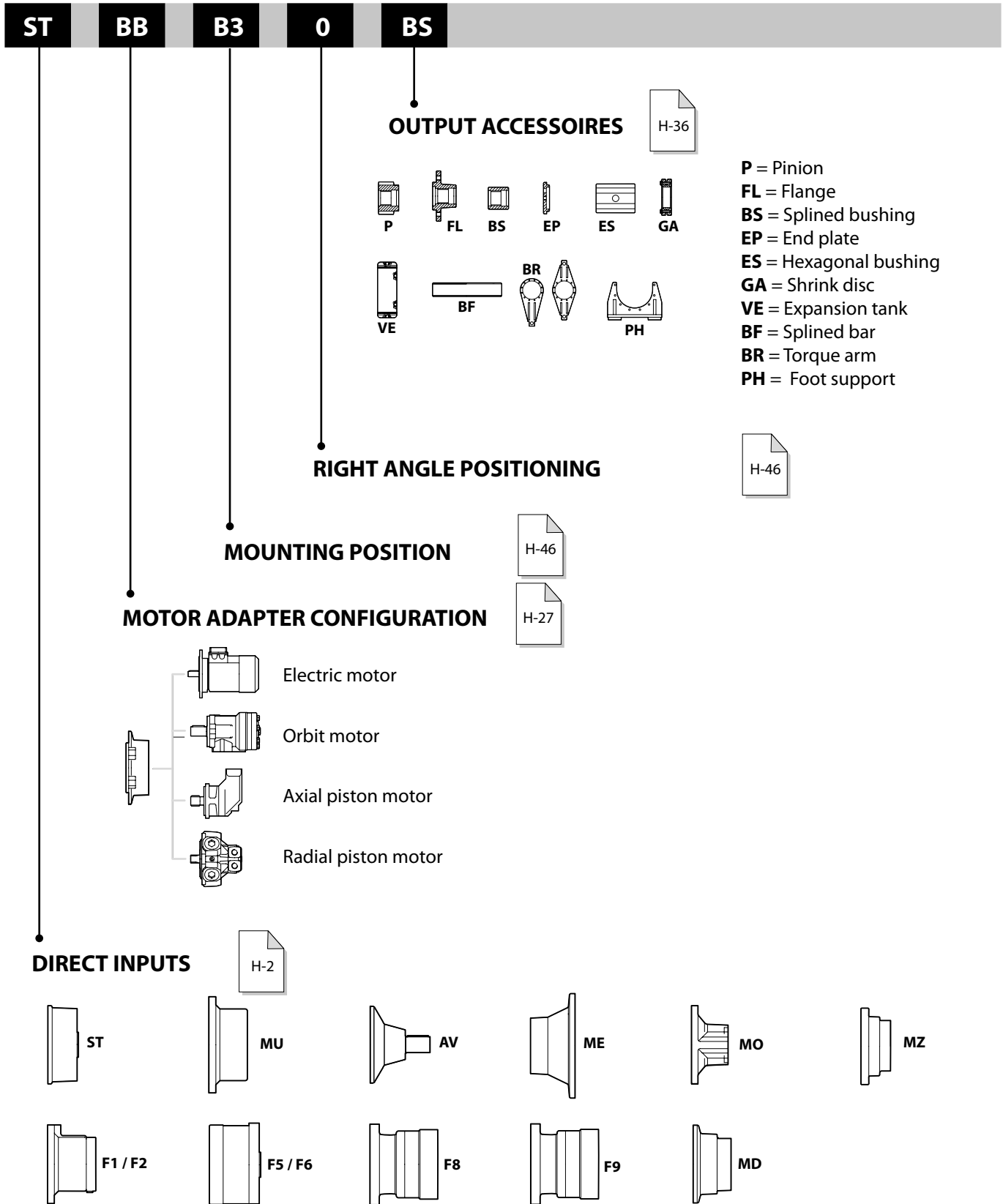
Please write the exact ratio as shown on the selection table

EXECUTION F-1

RE - GB = Linear **RA - GBA = Angular**

COMPOSITION F-2

- / = Standard
- L = Light
- R = Reinforced
- S = Special



The example shows the ordering code for a right angle planetary gearbox frame 210, with 3 reduction stages a foot mounted output support and a male splined shaft, and 78.7 reduction ratio, with a "ST" input and "SAE B", 16/32 15 teeth motor adapter flange. Horizontal mounting position and standard right angle positioning, and a splined bushing output accessory.

6.0 Negative Hydraulic Brakes

6.1 1.1 Negative Hydraulic Multi disk Brakes

Dinamic Oil gearboxes may have a static negative multi disk brakes and hydraulic control.

The brakes on models **F1** through **F2** are designed for direct assembly of orbital hydraulic motors with flanging, compliant with the SAE A Standard.

The brakes on models **F5** through **F6** reach greater braking torques and have an ST universal for connection to wide range of motors available on the market.

The brakes on model **F8** reach braking torques of up to 3000 Nm and have an MU input for connection to a wide range of motors available on the market.

The brakes on model **F9** reach braking torques of up to 1500 Nm. An optional sprag clutch mechanism with a torque of up to 1200 Nm can also be mounted. They have a "SAE C" or "SAE D" input and or optional universal ST input. These can be used for connection to a wide range of motors available on the market.

The **MD** brake is assembled with a direct flange connection for MLR motors on reduction stages RE 110-240.

Braking is generated by springs which compress fixed tempered steel disks alternating with bronze disks; friction transforms this thrust into a braking torque.

The brakes open when hydraulic oil pressurizes the brake release port; the pressure acts on a piston which compresses the spring so that the disks can turn freely. These are parking brakes which act by creating static braking torque when hydraulic release pressure is zero. The action stops when hydraulic pressure reaches the minimum release value.

For the following brakes F1, F2 and standard versions of F5, F6 and F8, circa 0.1 liter of mineral oil, with an ISO VG 32 viscosity is required.

Several brake models - F5, F6, F8 and F9 - are available in special versions with a higher maximum velocity.

6.2 Brake Selection

The following criteria must be considered:

- Braking torques are calculated under zero release pressure; if there is counter-pressure in the hydraulic circuit the actual braking values will be reduced as follows:

Actual torque = Theoretical torque x (Opening pressure – Counter-pressure) / Pressure at the start of opening.

- Brake torque multiplied by the reduction ratio and divided by gearbox efficiency must be greater than or equal to the required output torque:

$$T_b \times i_e / \eta_m \geq T_2$$

- Except in particular cases, brake torque multiplied by the reduction ratio and divided by gearbox efficiency must not exceed the maximum gearbox torque:

$$T_b \times i_e / \eta_m \leq T_{2max}$$

7.0 Assembly Positions

For a complete definition of gearbox order code, it is necessary to determine the assembly position. This position defines the location of the oil filling caps, levels and drainage plugs.

See page H46 - H48.

8.0 Installation Instructions

The information in this chapter is indicative: it provides a partial summary of the installation and maintenance manual, which users should always refer to for more detailed information.

8.1 Installation

Gearboxes with flange and male shaft:

the coupling frame must have an unpainted, flat surface for the gearbox to rest on. The surface should be processed with machine tools and perpendicular to the axis of rotation. The table below shows the tolerance for centering on couplings. For the RE series, the centering has a tolerance of H8.

| | | | | |
|-----------|------|------------------|------------------|------------------|
| Diameter | [mm] | 80 - 120 | 120 - 180 | 180 - 250 |
| Tolerance | [mm] | +0.054 0 | +0.063 0 | +0.072 0 |
| Diameter | [mm] | 250 - 315 | 315 - 400 | 400 - 500 |
| Tolerance | [mm] | +0.081 0 | +0.089 0 | +0.097 0 |

The gearboxes sized from RE1520 to RE8000 with output H have two pilot diameters. It is sufficient to use 1 pilot when the radial loads on the output shaft are not present or are less than 50% of the maximum permitted loads. For the GB line, the pilot diameter has a tolerance of F8.

| | | | | |
|-----------|------|------------------|------------------|------------------|
| Diameter | [mm] | 80 - 120 | 120 - 180 | 180 - 250 |
| Tolerance | [mm] | +0.186 +0.076 | +0.205 +0.080 | +0.226 +0.086 |

Gearboxes with a female splined shaft:

gearboxes with a female splined output shaft are not suitable for supporting radial loads on the output; it is therefore very important to carefully align the gearbox and the drive shaft. It is also necessary to check that the drive shaft does not bend while operating.

Gearboxes with Foot Support:

the gearbox foot support must be anchored to a flat surface and be aligned with the drive machine; it is important to align and level it very carefully. Incorrect support or alignment will affect the gearbox's lifetime.

Gearboxes with Pendular Assembly:

anchor the torque arm so that it is not constrained in the direction of the gearbox axis. The anchor point must have appropriate shock absorption.

The dimensional tables for each gearbox show the minimum length of the torque arm.

Torques and corresponding axial forces exerted by large pitch screws (tab. 4)

| | Class 8.8 | | Class 10.9 | | Class 12.9 | |
|------------|-------------|-----------|-------------|-----------|-------------|-----------|
| | Torque [Nm] | Force [N] | Torque [Nm] | Force [N] | Torque [Nm] | Force [N] |
| M10 | 44 | 26000 | 62 | 37000 | 74.5 | 44000 |
| M12 | 77 | 37800 | 108 | 53000 | 130 | 64000 |
| M14 | 122 | 51500 | 172 | 72000 | 207 | 87000 |
| M16 | 191 | 70400 | 269 | 99000 | 323 | 119000 |
| M18 | 263 | 86000 | 370 | 121000 | 444 | 145000 |
| M20 | 373 | 110000 | 525 | 154000 | 630 | 185000 |
| M22 | 507 | 138000 | 714 | 191000 | 857 | 229000 |
| M24 | 645 | 158000 | 908 | 222000 | 1090 | 267000 |
| M27 | 944 | 206000 | 1330 | 289000 | 1590 | 347000 |
| M30 | 1280 | 251000 | 1800 | 353000 | 2160 | 424000 |
| M33 | 1740 | 311000 | 2460 | 437000 | 2940 | 525000 |
| M36 | 2240 | 366000 | 3150 | 515000 | 3780 | 618000 |
| M39 | 2900 | 437000 | 4080 | 615000 | 4890 | 738000 |
| M42 | 3580 | 502000 | 5040 | 706000 | 6050 | 847000 |

8.2 Lubrication

Gearboxes are supplied without oil.

Before use, the gearbox should be filled up to the specified level with a recommended lubricant oil. The choice and quantity of oil will be determined by the installer / user based on the type of application.

8.3 Paint

Gearboxes are supplied unpainted. Some parts are treated with a water-soluble base coat of red epoxy paint. The customer should paint them using a paint compatible with the base coat. Oil seals must be protected during painting

8.4 Assembling Flanged Motors

Assembling motors on the coupling flanges supplied by Dinamic Oil is easy, but these important recommendations should be followed:

- lubricate the coupling with a light layer of anti-seizure grease or lubricant;
- make sure the motor runs freely but snugly on the flange, anchoring the gearbox in place, without forcing the shaft or the pilot;
- tighten screws.

Refer to the installation and maintenance manual for additional information.

8.5 Assembling Motors with Connection Couplings

When connection couplings are used between the motor and the gearbox, ensure that the alignment is compatible with the type of coupling used. Couplings are widely used in industrial applications for a variety of functions, such as:

- limiting input torque,
- absorbing vibrations from the motor,
- compensating for small misalignments.

When using connection couplings, refer to the instruction manuals supplied by the suppliers of the component.

8.6 Gearbox Weight

For your information, the indicative weights of various gearboxes are provided on page H52.

9.0 Storage

The information in this chapter is indicative: it provides a partial summary of the installation and maintenance manual, which users should always refer to for more detailed information.

Gearboxes must not be stored outdoors or in direct contact with the ground or sun. For long-term storage they must be filled with oil, and all external parts covered with grease; coupling surfaces must be protected with rust proof agents, breather plugs replaced by closed plugs and the gearbox should be operated under no load at least once every two months (one complete turn of the output shaft is sufficient).

Refer to the installation and maintenance manual for additional information on storage.

10.0 Lubrication

10.1 Type of Lubrication

Gearboxes are lubricated in oil baths; before operating the gearbox, fill it with oil and look through the level cap to see if the oil is at the correct level; this operation requires special attention, and you must check the level again after a few minutes of operation. The oil quantities identified in the catalog are approximate and vary according to the reduction ratio and the type of gearbox input and output.

10.2 Selecting an Oil

You may use any mechanical transmission oil with EP additives in viscosity classes ISO VG220 to ISO VG320 under ISO 3448. In special cases, oils with different viscosities may be used; for more information on these exceptions, contact Dinamic Oil's Technical Assistance Service. Oil viscosity must be selected based on ambient temperature and the actual operating temperature of the gearbox. If the gearboxes are being operated at very high ambient temperatures, synthetic oil is recommended. Oil may suddenly overheat in gearboxes assembled vertically and continuously functioning; in these cases it is necessary to use an external expansion tank (which Dinamic Oil may supply) to allow the oil to expand through thermal dilation.

10.3 Changing the oil

Oil must be changed after the first 150 hours of operation, and then according to the following table, or least every 2 years.

Average operating duration to oil type

| Operating temperature [°C] | Oil type | | |
|-------------------------------|----------------|-----------------------|------------------|
| | Mineraloil [h] | Syntheticoil [h] | |
| | | Polyalfaolefins (PAO) | Polyglycols (PG) |
| 70° | 7000 | 15000 | 16000 |
| 80° | 5000 | 10000 | 12000 |
| 90° | 3000 | 7500 | 9000 |

10.4 Oil quantity

Information on the quantity of oil required for proper gearbox lubrication is provided on page H49.

10.5 Recommended lubricants

Recommended viscosity (tab. 5)

| ISO VG 3448 | OPERATING TEMPERATURE [C°] | | | | | | | | | | | | |
|-------------|----------------------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | Ambient Temperature [C°] | | | | | | | | | | | | |
| | -20° | -10° | 0 | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
| 220 | | | | | | | | | | | | | |
| 320 | | | | | | | | | | | | | |

Recommended lubricants (tab. 6)

Lubricants for general use

| Manufacturer | Mineral Oil | Synthetic Oil | |
|--------------|-----------------|-------------------------|-----------------|
| | | Poly-Alpha-Olefin (PAO) | Polyglycol (PG) |
| AGIP | Blasia | Blasia SX | Blasia S |
| ARAL | Degol BG | | Degol GS |
| BP | Energol GR-XP | Energol EPX | Energol HTX |
| CASTROL | Alpha SP | Alphasyn EP | Alphasyn PG |
| CHEVRON | Ultra Gear | Tegra Synthetic | HiPerSYN |
| DEA | Falcon CLP | | |
| ELF | Reductelf SP | Elf Syntherma | Elf Syntherma |
| ESSO | Spartan EP | Spartan S EP | Glycolube |
| FINA | Giran | | |
| IP | Mellana | | Telesia Oil |
| KLÜBER | Kluberoil GEM 1 | Klubersynt EG4 | Klubersynt GH6 |
| MOBIL | Mobilgear XMP | Mobilgear SHC | Glygoile |
| OPTIMOL | Ultra | | |
| Q8 | Goya | El Greco | El Greco |
| SHELL | Omala S2 G | Omala S4 GX | Omala S4 WE |
| TOTAL | Carter EP | Carter SH | Carter SY |

Lubricants for food use

| Manufacturer | Gear Oils |
|--------------|--------------------------|
| AGIP | Rocol Foodlube Hi-Torque |
| ESSO | Gear Oil FM |
| KLÜBER | Kluberoil 4 UH1 N |
| MOBIL | DTE FM |
| SHELL | Cassida Fluid GL |

10.6 Temperature

The recommended ambient temperature for use of standard gearboxes is from -15°C to +40°C.

11.0 Independent Cooling Units

When transmitted power exceeds the thermal power that may be dissipated by the reducer, it is necessary to use a cooling unit to dispose of excessive thermal power.

Dinamic Oil offers a series of independent oil/water and oil/air cooling units which can dissipate up to 50 kW. For greater power levels, contact our technical office.

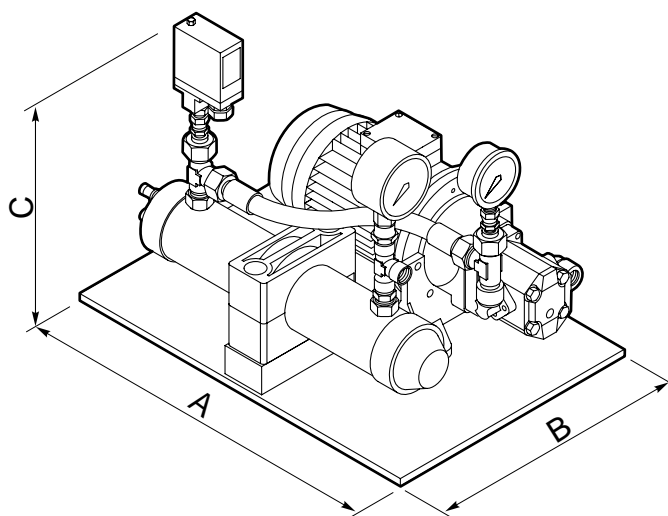
11.1 Independent oil/water cooling units, standard and customized composition.

Standard series URO/W cooling units are composed of:

- A water/oil heat exchanger.
- A motor-driven pump (motor/pump connection with joint and support; pump with viton seals) composed of a 4 pole B5 motor, standard three-phase 230/400V 50Hz power supply and gear pump.
- 0-16 bar manometer assembled between pump and heat exchanger.
- Analogue 0-120 °C thermometer mounted at the exchanger exit.
- Filter for installation on the tank delivery for cleaning the oil released (recommended option).

Units in customized installations may be equipped with the following options:

- Minimum pressure switch with exchange contacts, for assembly between the pump and the heat exchanger. (In this case the hydraulic system is already prepared).
- Electric flow switch for total control of oil flow. .



| Unit | Capacity | Motor-driven oil pump | | Water quantity | A | B | C |
|----------|----------|-----------------------|---------|----------------|-----|-----|-----|
| | [kW]* | [kW] | [l/min] | [l/min]* | | | |
| URO/W 4 | 4 | 0.37 | 16 | 8 | 500 | 350 | 400 |
| URO/W 6 | 6 | 0.37 | 16 | 10 | 500 | 350 | 400 |
| URO/W 9 | 9 | 0.55 | 16 | 16 | 500 | 350 | 400 |
| URO/W 13 | 13 | 1.1 | 30 | 25 | 500 | 350 | 400 |
| URO/W 21 | 21 | 1.5 | 30 | 40 | 500 | 400 | 450 |
| URO/W 31 | 31 | 2.2 | 56 | 50 | 720 | 510 | 520 |
| URO/W 50 | 50 | 3.0 | 80 | 80 | 730 | 520 | 520 |

* The values appearing in the table are for a water temperature of 20° C..

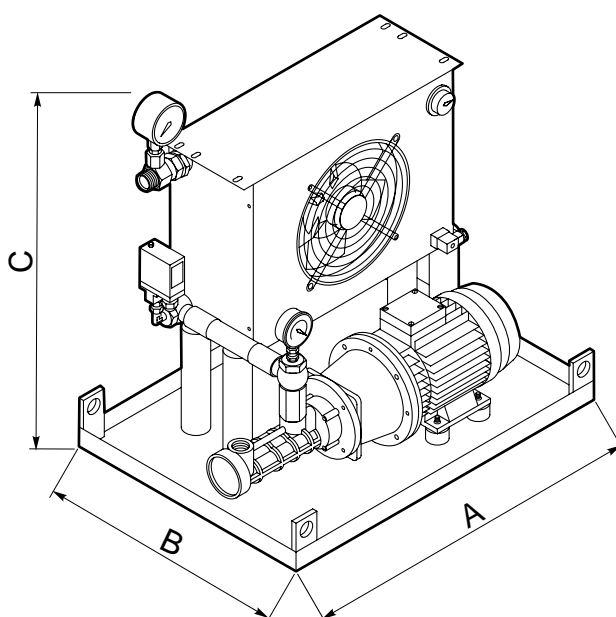
11.2 Independent oil/air cooling units, standard and customized composition

Standard series URO/A cooling units are composed of:

- An air/oil heat exchanger complete with a fan and an adjustable 0-90 ° C thermostat, already wired.
- A motor-driven pump (motor/pump connection with joint and support; pump with viton seals) composed of a 4 pole B3/ B5 motor, standard 230/400V - 50Hz power supply and screw pump.
- 0-16 bar manometer assembled between pump and heat exchanger.
- Analogue 0-120 °C thermometer mounted at the exchanger exit.
- Filter for installation on the tank delivery for cleaning the oil released (recommended option).

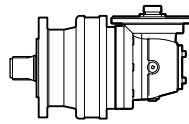
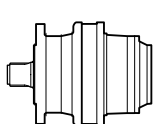
Units in customized installations may be equipped with the following options:

- Minimum pressure switch with exchange contacts, for assembly between the pump and the heat exchanger. (In this case the hydraulic system is already prepared).
- Electric flow switch for total control of oil flow.
- Filter for installation on the tank delivery for cleaning the oil released (recommended option).



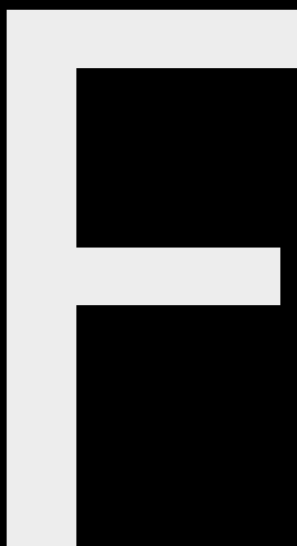
| Unit | Capacity [kW]* | Motor-driven oil pump | | Motor-driven fan | | A | B | C |
|----------|-------------------|-----------------------|---------|------------------|--------|------|-----|------|
| | | [kW] | [l/min] | [kW] | [m³/h] | | | |
| URO/A 5 | 5 | 1.5 | 30 | 0.12 | 900 | 660 | 430 | 700 |
| URO/A 7 | 7 | 1.5 | 30 | 0.12 | 1300 | 710 | 510 | 700 |
| URO/A 10 | 10 | 1.5 | 30 | 0.18 | 2750 | 710 | 510 | 830 |
| URO/A 13 | 13 | 1.5 | 30 | 0.23 | 2750 | 710 | 510 | 830 |
| URO/A 16 | 16 | 2.2 | 56 | 0.23 | 3500 | 710 | 510 | 1010 |
| URO/A 21 | 21 | 2.2 | 56 | 0.56 | 6300 | 800 | 500 | 1200 |
| URO/A 26 | 26 | 3 | 56 | 0.56 | 7450 | 800 | 500 | 1265 |
| URO/A 30 | 30 | 3 | 80 | 0.56 | 7450 | 800 | 500 | 1265 |
| URO/A 40 | 40 | 2.2 | 56 | 0.9 | 9500 | 1010 | 600 | 1350 |
| URO/A 46 | 46 | 3 | 80 | 0.9 | 9500 | 1010 | 600 | 1350 |

*The values appearing in the table are for a air temperature of 20° C.



| RE | ie | RA | ie | T _{2max} [Nm] | |
|-------------|----------------|-------------|-----------------|---------------------------|-------------|
| 110 | 3.48 - 2153.35 | 110 | 11.14 - 1194.39 | 1780 | F-2 |
| 210 | 3.48 - 2153.35 | 210 | 11.14 - 1194.39 | 3600 | F-4 |
| 240 | 3.82 - 1658.88 | 240 | 12.22 - 900.53 | 4000 | F-6 |
| 310 | 3.60 - 1990.66 | 310 | 10.03 - 1244.16 | 5630 | F-8 |
| 510 | 3.60 - 1990.66 | 510 | 10.03 - 1244.16 | 11600 | F-10 |
| 610 | 4.00 - 1416.08 | 610 | 11.14 - 629.37 | 14900 | F-12 |
| 810 | 3.56 - 2264.19 | 810 | 10.41 - 1184.91 | 18600 | F-14 |
| 1020 | 3.56 - 2264.19 | 1020 | 10.41 - 1184.91 | 27200 | F-16 |
| 1520 | 4.09 - 2041.20 | 1520 | 12.56 - 1076.68 | 39000 | F-18 |
| 2000 | 3.83 - 1451.52 | 2000 | 11.77 - 907.20 | 44100 | F-20 |
| 2520 | 4.00 - 1925.49 | 2520 | 12.29 - 1091.91 | 50100 | F-22 |
| 3000 | 4.00 - 1742.52 | 3000 | 12.29 - 968.07 | 78800 | F-24 |
| 3510 | 3.84 - 2392.62 | 3510 | 12.48 - 1118.57 | 96500 | F-26 |
| 4800 | 3.84 - 1741.68 | 4800 | 12.48 - 967.60 | 111000 | F-28 |
| 6000 | 4.14 - 1435.91 | 6000 | 13.46 - 1009.38 | 135000 | F-30 |
| 8000 | 4.00 - 3164.84 | 8000 | 13.00 - 800.00 | 198000 | F-32 |

| GB | ie | GBA | ie | T _{2max} [Nm] | |
|---------------|----------------|---------------|-------------------|---------------------------|-------------|
| 12010 | 4.09 - 3544.35 | 12010 | 48.55 - 3161.48 | 281000 | F-34 |
| 16000 | 3.83 - 3172.87 | 16000 | 47.84 - 3544.35 | 357000 | F-36 |
| 21000 | 3.68 - 3129.84 | 21000 | 49.55 - 3065.78 | 406000 | F-38 |
| 26000 | 3.68 - 3532.80 | 26000 | 55.81 - 2527.69 | 540000 | F-40 |
| 31000 | 3.43 - 3559.02 | 31000 | 172.32 - 5011.04 | 650000 | F-42 |
| 40000 | 3.43 - 3559.02 | 40000 | 172.32 - 5011.04 | 650000 | F-44 |
| 45000 | 3.83 - 3554.59 | 45000 | 210.50 - 2211.75 | 650000 | F-46 |
| 53000 | 3.84 - 3103.82 | 53000 | 248.00 - 4278.67 | 1191000 | F-48 |
| 61000 | 3.84 - 2943.14 | 61000 | 190.27 - 11772.58 | 1131000 | F-50 |
| 85000 | 3.84 - 2448.10 | 85000 | 214.32 - 11429.12 | 1131000 | F-52 |
| 110000 | 4.32 - 3553.28 | 110000 | 744.42 - 21647.68 | 2250000 | F-54 |
| 130000 | 4.32 - 2350.11 | 130000 | 909.34 - 10967.19 | 2720000 | F-56 |
| 150000 | 4.07 - 2344.94 | | | 2720000 | F-58 |
| 205000 | 4.14 - 3259.83 | | | 3620000 | F-59 |
| 235000 | 4.14 - 2902.95 | | | 3620000 | F-60 |

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Radial and Axial loads
F-61


| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|-------------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 111 | 3.48 | 216 | 14.7 | 630 | 259 | 16.8 | 610 | 417 | 23.5 | 530 | 833 | 38.2 | 430 | 1730 | 11 (N) 13 (T) 8 (F) 21 (P) |
| | 4.26 | 176 | 12.2 | 650 | 211 | 14.4 | 640 | 340 | 20.1 | 550 | 680 | 32.7 | 450 | 1780 | |
| | 5.77 | 130 | 6.7 | 480 | 156 | 7.9 | 470 | 251 | 12.4 | 460 | 503 | 23.9 | 440 | 1320 | |
| | 7.20 | 104 | 3.8 | 340 | 125 | 4.6 | 340 | 201 | 7.1 | 330 | 403 | 13.7 | 320 | 950 | |
| RE 112 | 12.11 | 62 | 4.6 | 680 | 74 | 5.5 | 670 | 120 | 8.6 | 660 | 239 | 16.4 | 620 | 1730 | 7 (N) 8 (T) 5 (F) 13 (P) |
| | 14.84 | 51 | 3.8 | 690 | 61 | 4.6 | 680 | 98 | 7.1 | 660 | 195 | 13.7 | 640 | 1730 | |
| | 18.17 | 41.3 | 3.2 | 700 | 49.5 | 3.8 | 700 | 80 | 6.0 | 680 | 160 | 11.4 | 650 | 1780 | |
| | 20.08 | 37.4 | 2.9 | 700 | 44.8 | 3.4 | 690 | 72 | 5.4 | 670 | 144 | 10.3 | 650 | 1730 | |
| | 24.60 | 30.5 | 2.4 | 720 | 36.6 | 2.9 | 710 | 59 | 4.5 | 690 | 118 | 8.6 | 660 | 1780 | |
| | 30.69 | 24.4 | 2.0 | 720 | 29.3 | 2.3 | 720 | 47.2 | 3.6 | 700 | 94 | 7.0 | 670 | 1780 | |
| | 33.28 | 22.5 | 1.3 | 530 | 27.0 | 1.6 | 520 | 43.6 | 2.4 | 510 | 87 | 4.7 | 490 | 1320 | |
| | 41.54 | 18.1 | 1.1 | 530 | 21.7 | 1.3 | 530 | 34.9 | 2.0 | 510 | 70 | 3.8 | 490 | 1320 | |
| | 51.84 | 14.5 | 0.61 | 380 | 17.4 | 0.73 | 380 | 28.0 | 1.1 | 370 | 56 | 2.2 | 350 | 950 | |
| RE 113 | 51.63 | 14.5 | 1.2 | 750 | 17.4 | 1.5 | 740 | 28.1 | 2.3 | 720 | 56 | 4.4 | 690 | 1730 | 5 (N) 6 (T) 4 (F) 10 (P) |
| | 63.25 | 11.9 | 1.0 | 760 | 14.2 | 1.2 | 750 | 22.9 | 1.9 | 730 | 45.9 | 3.6 | 700 | 1780 | |
| | 69.87 | 10.7 | 0.92 | 750 | 12.9 | 1.1 | 740 | 20.8 | 1.7 | 720 | 41.5 | 3.3 | 700 | 1730 | |
| | 77.48 | 9.7 | 0.84 | 760 | 11.6 | 0.99 | 760 | 18.7 | 1.6 | 740 | 37.4 | 3.0 | 710 | 1780 | |
| | 85.59 | 8.8 | 0.76 | 770 | 10.5 | 0.90 | 760 | 16.9 | 1.4 | 740 | 33.9 | 2.7 | 710 | 1780 | |
| | 104.85 | 7.2 | 0.64 | 790 | 8.6 | 0.75 | 770 | 13.8 | 1.2 | 750 | 27.7 | 2.2 | 720 | 1780 | |
| | 106.82 | 7.0 | 0.63 | 790 | 8.4 | 0.73 | 770 | 13.6 | 1.1 | 750 | 27.1 | 2.2 | 720 | 1780 | |
| | 130.86 | 5.7 | 0.53 | 820 | 6.9 | 0.62 | 800 | 11.1 | 0.95 | 760 | 22.2 | 1.8 | 730 | 1780 | |
| | 141.90 | 5.3 | 0.49 | 830 | 6.3 | 0.58 | 810 | 10.2 | 0.88 | 760 | 20.4 | 1.7 | 730 | 1780 | |
| | 144.55 | 5.2 | 0.49 | 840 | 6.2 | 0.58 | 820 | 10.0 | 0.86 | 760 | 20.1 | 1.6 | 730 | 1730 | |
| | 177.09 | 4.2 | 0.41 | 860 | 5.1 | 0.48 | 830 | 8.2 | 0.72 | 770 | 16.4 | 1.4 | 740 | 1780 | |
| | 180.40 | 4.2 | 0.41 | 870 | 5.0 | 0.48 | 850 | 8.0 | 0.72 | 790 | 16.1 | 1.3 | 730 | 1730 | |
| | 221.00 | 3.4 | 0.34 | 880 | 4.1 | 0.40 | 860 | 6.6 | 0.59 | 800 | 13.1 | 1.1 | 750 | 1780 | |
| | 239.64 | 3.1 | 0.22 | 630 | 3.8 | 0.26 | 610 | 6.1 | 0.39 | 570 | 12.1 | 0.75 | 550 | 1320 | |
| 299.08 | 2.5 | 0.18 | 650 | 3.0 | 0.21 | 630 | 4.8 | 0.32 | 590 | 9.7 | 0.61 | 550 | 1320 | | |
| RE 114 | 220.10 | 3.4 | 0.35 | 880 | 4.1 | 0.41 | 860 | 6.6 | 0.61 | 800 | 13.2 | 1.1 | 750 | 1780 | 4 (N) 5 (T) 4 (F) 8 (P) |
| | 243.14 | 3.1 | 0.33 | 910 | 3.7 | 0.38 | 890 | 6.0 | 0.57 | 830 | 11.9 | 1.0 | 750 | 1730 | |
| | 269.63 | 2.8 | 0.29 | 910 | 3.3 | 0.34 | 890 | 5.4 | 0.51 | 830 | 10.8 | 0.95 | 760 | 1780 | |
| | 303.44 | 2.5 | 0.27 | 940 | 3.0 | 0.32 | 920 | 4.8 | 0.47 | 850 | 9.6 | 0.85 | 770 | 1730 | |
| | 364.89 | 2.1 | 0.23 | 950 | 2.5 | 0.27 | 930 | 4.0 | 0.40 | 860 | 7.9 | 0.72 | 780 | 1780 | |
| | 403.08 | 1.9 | 0.21 | 980 | 2.2 | 0.25 | 960 | 3.6 | 0.37 | 890 | 7.2 | 0.67 | 800 | 1730 | |
| | 447.00 | 1.7 | 0.19 | 980 | 2.0 | 0.22 | 960 | 3.2 | 0.33 | 890 | 6.5 | 0.60 | 800 | 1780 | |
| | 493.79 | 1.5 | 0.18 | 1000 | 1.8 | 0.21 | 970 | 2.9 | 0.31 | 900 | 5.9 | 0.55 | 810 | 1780 | |
| | 557.86 | 1.3 | 0.16 | 1020 | 1.6 | 0.19 | 990 | 2.6 | 0.28 | 920 | 5.2 | 0.50 | 830 | 1780 | |
| | 627.80 | 1.2 | 0.15 | 1050 | 1.4 | 0.17 | 1020 | 2.3 | 0.25 | 950 | 4.6 | 0.46 | 860 | 1730 | |
| | 818.63 | 0.92 | 0.11 | 1080 | 1.1 | 0.13 | 1050 | 1.8 | 0.20 | 980 | 3.5 | 0.36 | 880 | 1780 | |
| | 942.17 | 0.80 | 0.10 | 1100 | 0.96 | 0.12 | 1070 | 1.5 | 0.18 | 1000 | 3.1 | 0.32 | 900 | 1780 | |
| | 1021.64 | 0.73 | 0.09 | 1120 | 0.88 | 0.11 | 1090 | 1.4 | 0.17 | 1010 | 2.8 | 0.30 | 910 | 1780 | |
| | 1275.01 | 0.59 | 0.08 | 1150 | 0.71 | 0.09 | 1120 | 1.1 | 0.14 | 1040 | 2.3 | 0.25 | 940 | 1780 | |
| | 1591.22 | 0.47 | 0.07 | 1190 | 0.57 | 0.08 | 1160 | 0.91 | 0.11 | 1080 | 1.8 | 0.21 | 970 | 1780 | |
| | 1725.44 | 0.43 | 0.04 | 840 | 0.52 | 0.05 | 820 | 0.84 | 0.07 | 760 | 1.7 | 0.13 | 690 | 1320 | |
| 2153.35 | 0.35 | 0.04 | 870 | 0.42 | 0.04 | 850 | 0.67 | 0.06 | 790 | 1.3 | 0.11 | 710 | 1320 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|--------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|----------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 112 | 11.14 | 67.3 | 5.1 | 680 | 81 | 6.1 | 670 | 130 | 9.5 | 650 | 260 | 16.4 | 560 | 1730 | 5 (N) |
| | 13.64 | 55.0 | 4.3 | 690 | 66 | 5.1 | 680 | 106 | 7.9 | 670 | 213 | 15.1 | 630 | 1780 | 5 (T) |
| | 18.46 | 40.6 | 2.3 | 510 | 48.8 | 2.8 | 500 | 79 | 4.3 | 490 | 157 | 8.3 | 470 | 1320 | 4 (F) |
| | 23.04 | 32.6 | 1.3 | 370 | 39.1 | 1.6 | 360 | 63 | 2.5 | 350 | 126 | 4.8 | 340 | 950 | 9 (P) |
| RA 113 | 38.75 | 19.4 | 1.6 | 730 | 23.2 | 1.9 | 720 | 37.4 | 3.0 | 700 | 75 | 5.8 | 670 | 1730 | 4 (N) 5 (T) 3 (F) 8 (P) |
| | 47.47 | 15.8 | 1.3 | 740 | 19.0 | 1.6 | 740 | 30.5 | 2.5 | 720 | 61 | 4.8 | 690 | 1780 | |
| | 58.16 | 12.9 | 1.1 | 750 | 15.5 | 1.3 | 740 | 24.9 | 2.1 | 720 | 49.9 | 4.0 | 700 | 1780 | |
| | 64.25 | 11.7 | 1.0 | 750 | 14.0 | 1.2 | 740 | 22.6 | 1.9 | 720 | 45.1 | 3.6 | 690 | 1730 | |
| | 78.70 | 9.5 | 0.84 | 770 | 11.4 | 0.99 | 760 | 18.4 | 1.6 | 740 | 36.8 | 3.0 | 710 | 1780 | |
| | 98.22 | 7.6 | 0.69 | 780 | 9.2 | 0.81 | 770 | 14.8 | 1.3 | 750 | 29.5 | 2.4 | 720 | 1780 | |
| | 106.51 | 7.0 | 0.46 | 560 | 8.5 | 0.54 | 560 | 13.6 | 0.85 | 540 | 27.2 | 1.6 | 520 | 1320 | |
| | 132.92 | 5.6 | 0.37 | 570 | 6.8 | 0.44 | 570 | 10.9 | 0.69 | 550 | 21.8 | 1.3 | 530 | 1320 | |
| | 165.89 | 4.5 | 0.21 | 410 | 5.4 | 0.25 | 410 | 8.7 | 0.40 | 390 | 17.5 | 0.76 | 380 | 950 | |
| RA 114 | 134.86 | 5.6 | 0.55 | 830 | 6.7 | 0.64 | 810 | 10.8 | 0.95 | 750 | 21.5 | 1.8 | 720 | 1730 | 4 (N) 4 (T) 3 (F) 8 (P) |
| | 165.21 | 4.5 | 0.45 | 850 | 5.4 | 0.53 | 820 | 8.8 | 0.79 | 770 | 17.6 | 1.5 | 740 | 1780 | |
| | 202.39 | 3.7 | 0.38 | 870 | 4.4 | 0.44 | 850 | 7.2 | 0.67 | 790 | 14.3 | 1.3 | 750 | 1780 | |
| | 223.58 | 3.4 | 0.36 | 900 | 4.0 | 0.41 | 880 | 6.5 | 0.62 | 810 | 13.0 | 1.1 | 740 | 1730 | |
| | 247.94 | 3.0 | 0.32 | 900 | 3.6 | 0.37 | 880 | 5.8 | 0.56 | 810 | 11.7 | 1.0 | 760 | 1780 | |
| | 273.89 | 2.7 | 0.29 | 910 | 3.3 | 0.34 | 890 | 5.3 | 0.52 | 830 | 10.6 | 0.95 | 760 | 1780 | |
| | 335.53 | 2.2 | 0.25 | 940 | 2.7 | 0.29 | 920 | 4.3 | 0.43 | 850 | 8.6 | 0.78 | 770 | 1780 | |
| | 341.82 | 2.2 | 0.24 | 950 | 2.6 | 0.28 | 920 | 4.2 | 0.43 | 860 | 8.5 | 0.77 | 770 | 1780 | |
| | 418.74 | 1.8 | 0.21 | 970 | 2.1 | 0.24 | 950 | 3.5 | 0.36 | 880 | 6.9 | 0.65 | 790 | 1780 | |
| | 454.06 | 1.7 | 0.19 | 990 | 2.0 | 0.22 | 960 | 3.2 | 0.34 | 890 | 6.4 | 0.60 | 800 | 1780 | |
| | 566.67 | 1.3 | 0.16 | 1020 | 1.6 | 0.19 | 990 | 2.6 | 0.28 | 920 | 5.1 | 0.50 | 830 | 1780 | |
| | 614.47 | 1.2 | 0.10 | 720 | 1.5 | 0.12 | 700 | 2.4 | 0.18 | 650 | 4.7 | 0.33 | 590 | 1320 | |
| | 707.21 | 1.1 | 0.13 | 1060 | 1.3 | 0.15 | 1030 | 2.1 | 0.23 | 960 | 4.1 | 0.41 | 860 | 1780 | |
| | 766.86 | 0.98 | 0.09 | 750 | 1.2 | 0.10 | 730 | 1.9 | 0.15 | 680 | 3.8 | 0.27 | 610 | 1320 | |
| | 957.05 | 0.78 | 0.07 | 770 | 0.94 | 0.08 | 750 | 1.5 | 0.12 | 700 | 3.0 | 0.22 | 630 | 1320 | |
| | 1194.39 | 0.63 | 0.04 | 550 | 0.75 | 0.05 | 540 | 1.2 | 0.07 | 500 | 2.4 | 0.13 | 450 | 950 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|-----------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 211 | 3.48 | 216 | 26.5 | 1140 | 259 | 30.1 | 1080 | 417 | 42.0 | 940 | 833 | 68 | 760 | 2420 | 11 (N) |
| | 4.26 | 176 | 22.7 | 1200 | 211 | 25.7 | 1140 | 340 | 36.0 | 980 | 680 | 58 | 800 | 3550 | 13 (T) |
| | 5.77 | 130 | 13.4 | 960 | 156 | 16.0 | 950 | 251 | 25.0 | 930 | 503 | 45.8 | 850 | 2650 | 9 (F) |
| | 7.20 | 104 | 7.8 | 690 | 125 | 9.2 | 690 | 201 | 14.4 | 670 | 403 | 27.8 | 640 | 1920 | 22 (P) |
| RE 212 | 12.11 | 62 | 9.7 | 1410 | 74 | 11.5 | 1400 | 120 | 18.0 | 1360 | 239 | 29.3 | 1110 | 2420 | 7 (N) 8 (T) 5 (F) 13 (P) |
| | 14.84 | 51 | 7.7 | 1390 | 61 | 9.2 | 1380 | 98 | 14.4 | 1340 | 195 | 25.0 | 1160 | 3550 | |
| | 18.17 | 41.3 | 6.4 | 1410 | 49.5 | 7.6 | 1390 | 80 | 11.9 | 1360 | 160 | 21.7 | 1240 | 3550 | |
| | 20.08 | 37.4 | 6.0 | 1460 | 44.8 | 7.1 | 1440 | 72 | 11.2 | 1400 | 144 | 20.5 | 1290 | 2420 | |
| | 24.60 | 30.5 | 4.8 | 1430 | 36.6 | 5.7 | 1420 | 59 | 9.0 | 1380 | 118 | 17.2 | 1330 | 3550 | |
| | 30.69 | 24.4 | 3.9 | 1450 | 29.3 | 4.6 | 1430 | 47.2 | 7.3 | 1400 | 94 | 14.0 | 1340 | 3550 | |
| | 33.28 | 22.5 | 2.6 | 1060 | 27.0 | 3.1 | 1050 | 43.6 | 4.9 | 1030 | 87 | 9.5 | 990 | 2650 | |
| | 41.54 | 18.1 | 2.1 | 1080 | 21.7 | 2.5 | 1070 | 34.9 | 4.0 | 1040 | 70 | 7.7 | 1000 | 2650 | |
| | 51.84 | 14.5 | 1.2 | 780 | 17.4 | 1.5 | 770 | 28.0 | 2.3 | 750 | 56 | 4.4 | 720 | 1920 | |
| RE 213 | 51.63 | 14.5 | 2.5 | 1490 | 17.4 | 2.9 | 1480 | 28.1 | 4.6 | 1440 | 56 | 8.8 | 1380 | 3550 | 5 (N) 6 (T) 4 (F) 10 (P) |
| | 63.25 | 11.9 | 2.0 | 1510 | 14.2 | 2.4 | 1500 | 22.9 | 3.8 | 1460 | 45.9 | 7.2 | 1400 | 3550 | |
| | 69.87 | 10.7 | 1.9 | 1570 | 12.9 | 2.3 | 1550 | 20.8 | 3.5 | 1510 | 41.5 | 6.8 | 1450 | 2420 | |
| | 77.48 | 9.7 | 1.7 | 1530 | 11.6 | 2.0 | 1510 | 18.7 | 3.1 | 1470 | 37.4 | 6.0 | 1420 | 3550 | |
| | 85.59 | 8.8 | 1.5 | 1540 | 10.5 | 1.8 | 1520 | 16.9 | 2.8 | 1480 | 33.9 | 5.4 | 1420 | 3550 | |
| | 104.85 | 7.2 | 1.3 | 1580 | 8.6 | 1.5 | 1540 | 13.8 | 2.3 | 1500 | 27.7 | 4.5 | 1440 | 3550 | |
| | 106.82 | 7.0 | 1.3 | 1590 | 8.4 | 1.5 | 1540 | 13.6 | 2.3 | 1500 | 27.1 | 4.4 | 1440 | 3550 | |
| | 130.86 | 5.7 | 1.1 | 1630 | 6.9 | 1.2 | 1590 | 11.1 | 1.9 | 1520 | 22.2 | 3.7 | 1460 | 3550 | |
| | 141.90 | 5.3 | 1.0 | 1660 | 6.3 | 1.2 | 1610 | 10.2 | 1.8 | 1520 | 20.4 | 3.4 | 1460 | 3550 | |
| | 144.55 | 5.2 | 1.0 | 1750 | 6.2 | 1.2 | 1700 | 10.0 | 1.8 | 1590 | 20.1 | 3.4 | 1510 | 2420 | |
| | 177.09 | 4.2 | 0.82 | 1710 | 5.1 | 1.0 | 1660 | 8.2 | 1.4 | 1550 | 16.4 | 2.7 | 1480 | 3550 | |
| | 180.40 | 4.2 | 0.63 | 1330 | 5.0 | 0.74 | 1320 | 8.0 | 1.2 | 1290 | 16.1 | 2.2 | 1240 | 3290 | |
| | 221.00 | 3.4 | 0.63 | 1630 | 4.1 | 0.74 | 1620 | 6.6 | 1.2 | 1570 | 13.1 | 2.2 | 1500 | 3550 | |
| | 239.64 | 3.1 | 0.45 | 1260 | 3.8 | 0.52 | 1230 | 6.1 | 0.78 | 1150 | 12.1 | 1.5 | 1100 | 2650 | |
| 299.08 | 2.5 | 0.37 | 1310 | 3.0 | 0.43 | 1270 | 4.8 | 0.65 | 1180 | 9.7 | 1.2 | 1120 | 2650 | | |
| RE 214 | 220.10 | 3.4 | 0.70 | 1770 | 4.1 | 0.82 | 1720 | 6.6 | 1.22 | 1600 | 13.2 | 2.3 | 1500 | 3550 | 5 (N) 5 (T) 4 (F) 8 (P) |
| | 243.14 | 3.1 | 0.68 | 1900 | 3.7 | 0.79 | 1840 | 6.0 | 1.19 | 1720 | 11.9 | 2.1 | 1550 | 2420 | |
| | 269.63 | 2.8 | 0.59 | 1820 | 3.3 | 0.69 | 1770 | 5.4 | 1.03 | 1650 | 10.8 | 1.9 | 1520 | 3550 | |
| | 303.44 | 2.5 | 0.56 | 1960 | 3.0 | 0.66 | 1910 | 4.8 | 0.98 | 1770 | 9.6 | 1.8 | 1600 | 2420 | |
| | 364.89 | 2.1 | 0.45 | 1910 | 2.5 | 0.53 | 1860 | 4.0 | 0.80 | 1730 | 7.9 | 1.4 | 1560 | 3550 | |
| | 403.08 | 1.9 | 0.43 | 1970 | 2.2 | 0.50 | 1950 | 3.6 | 0.77 | 1850 | 7.2 | 1.4 | 1670 | 2420 | |
| | 447.00 | 1.7 | 0.38 | 1970 | 2.0 | 0.45 | 1920 | 3.2 | 0.67 | 1780 | 6.5 | 1.2 | 1600 | 3550 | |
| | 493.79 | 1.5 | 0.35 | 2000 | 1.8 | 0.41 | 1940 | 2.9 | 0.62 | 1810 | 5.9 | 1.1 | 1630 | 3550 | |
| | 557.86 | 1.3 | 0.32 | 2040 | 1.6 | 0.37 | 1980 | 2.6 | 0.55 | 1840 | 5.2 | 1.0 | 1660 | 3550 | |
| | 627.80 | 1.2 | 0.30 | 2190 | 1.4 | 0.35 | 2130 | 2.3 | 0.53 | 1980 | 4.6 | 0.95 | 1780 | 2420 | |
| | 818.63 | 0.92 | 0.23 | 2160 | 1.1 | 0.27 | 2100 | 1.8 | 0.40 | 1950 | 3.5 | 0.72 | 1760 | 3550 | |
| | 942.17 | 0.80 | 0.20 | 2200 | 0.96 | 0.24 | 2140 | 1.5 | 0.36 | 1990 | 3.1 | 0.64 | 1800 | 3550 | |
| | 1021.64 | 0.73 | 0.19 | 2230 | 0.88 | 0.22 | 2170 | 1.4 | 0.33 | 2020 | 2.8 | 0.60 | 1820 | 3550 | |
| | 1275.01 | 0.59 | 0.16 | 2310 | 0.71 | 0.18 | 2240 | 1.1 | 0.28 | 2090 | 2.3 | 0.50 | 1880 | 3550 | |
| | 1591.22 | 0.47 | 0.11 | 1970 | 0.57 | 0.13 | 1920 | 0.91 | 0.19 | 1790 | 1.8 | 0.36 | 1690 | 3550 | |
| | 1725.44 | 0.43 | 0.09 | 1700 | 0.52 | 0.10 | 1660 | 0.84 | 0.15 | 1540 | 1.7 | 0.27 | 1390 | 2650 | |
| 2153.35 | 0.35 | 0.07 | 1760 | 0.42 | 0.08 | 1710 | 0.67 | 0.12 | 1590 | 1.3 | 0.22 | 1440 | 2650 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|---------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|----------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 212 | 11.14 | 67 | 7.1 | 940 | 81 | 8.4 | 930 | 130 | 12.4 | 850 | 260 | 20.2 | 690 | 2410 | 5 (N) |
| | 13.64 | 55 | 7.1 | 1150 | 66 | 8.4 | 1140 | 106 | 12.4 | 1050 | 213 | 20.2 | 850 | 2950 | 6 (T) |
| | 18.46 | 40.6 | 4.7 | 1030 | 48.8 | 5.6 | 1020 | 79 | 8.7 | 990 | 157 | 16.7 | 950 | 2650 | 4 (F) |
| | 23.04 | 32.6 | 2.7 | 740 | 39.1 | 3.2 | 730 | 63 | 5.0 | 710 | 126 | 9.7 | 690 | 1920 | 9 (P) |
| RA 213 | 38.75 | 19.4 | 3.4 | 1510 | 23.2 | 4.0 | 1500 | 37.4 | 6.3 | 1460 | 75 | 12.0 | 1400 | 2420 | 4 (N) 5 (T) 4 (F) 8 (P) |
| | 47.47 | 15.8 | 2.8 | 1530 | 19.0 | 3.2 | 1470 | 30.5 | 5.0 | 1430 | 61 | 9.6 | 1380 | 3550 | |
| | 58.16 | 12.9 | 2.2 | 1500 | 15.5 | 2.6 | 1490 | 24.9 | 4.1 | 1450 | 49.9 | 8.0 | 1390 | 3550 | |
| | 64.25 | 11.7 | 2.1 | 1560 | 14.0 | 2.5 | 1540 | 22.6 | 3.9 | 1500 | 45.1 | 7.5 | 1440 | 2420 | |
| | 78.70 | 9.5 | 1.7 | 1530 | 11.4 | 2.0 | 1510 | 18.4 | 3.1 | 1470 | 36.8 | 6.0 | 1420 | 3550 | |
| | 98.22 | 7.6 | 1.4 | 1560 | 9.2 | 1.6 | 1530 | 14.8 | 2.5 | 1490 | 29.5 | 4.9 | 1430 | 3550 | |
| | 106.51 | 7.0 | 0.92 | 1140 | 8.5 | 1.1 | 1130 | 13.6 | 1.7 | 1100 | 27.2 | 3.3 | 1050 | 2650 | |
| | 132.92 | 5.6 | 0.75 | 1160 | 6.8 | 0.89 | 1140 | 10.9 | 1.4 | 1110 | 21.8 | 2.7 | 1070 | 2650 | |
| 165.89 | 4.5 | 0.43 | 830 | 5.4 | 0.51 | 820 | 8.7 | 0.80 | 800 | 17.5 | 1.5 | 770 | 1920 | | |
| RA 214 | 134.86 | 5.6 | 1.1 | 1730 | 6.7 | 1.3 | 1690 | 10.8 | 2.0 | 1570 | 21.5 | 3.8 | 1500 | 2420 | 4 (N) 4 (T) 3 (F) 8 (P) |
| | 165.21 | 4.5 | 0.90 | 1690 | 5.4 | 1.1 | 1650 | 8.8 | 1.6 | 1540 | 17.6 | 3.1 | 1480 | 3550 | |
| | 202.39 | 3.7 | 0.76 | 1750 | 4.4 | 0.89 | 1700 | 7.2 | 1.3 | 1580 | 14.3 | 2.5 | 1490 | 3550 | |
| | 223.58 | 3.4 | 0.74 | 1870 | 4.0 | 0.86 | 1820 | 6.5 | 1.3 | 1690 | 13.0 | 2.4 | 1550 | 2420 | |
| | 247.94 | 3.0 | 0.64 | 1800 | 3.6 | 0.75 | 1750 | 5.8 | 1.1 | 1630 | 11.7 | 2.1 | 1510 | 3550 | |
| | 273.89 | 2.7 | 0.59 | 1830 | 3.3 | 0.69 | 1780 | 5.3 | 1.0 | 1650 | 10.6 | 1.9 | 1520 | 3550 | |
| | 335.53 | 2.2 | 0.50 | 1890 | 2.7 | 0.58 | 1830 | 4.3 | 0.87 | 1710 | 8.6 | 1.6 | 1540 | 3550 | |
| | 341.82 | 2.2 | 0.49 | 1890 | 2.6 | 0.57 | 1840 | 4.2 | 0.85 | 1710 | 8.5 | 1.5 | 1540 | 3550 | |
| | 418.74 | 1.8 | 0.41 | 1950 | 2.1 | 0.48 | 1900 | 3.5 | 0.72 | 1760 | 6.9 | 1.3 | 1590 | 3550 | |
| | 454.06 | 1.7 | 0.38 | 1970 | 2.0 | 0.45 | 1920 | 3.2 | 0.67 | 1790 | 6.4 | 1.2 | 1610 | 3550 | |
| | 566.67 | 1.3 | 0.32 | 2040 | 1.6 | 0.37 | 1990 | 2.6 | 0.56 | 1850 | 5.1 | 1.0 | 1660 | 3550 | |
| | 614.47 | 1.2 | 0.21 | 1460 | 1.5 | 0.24 | 1420 | 2.4 | 0.37 | 1320 | 4.7 | 0.66 | 1190 | 2650 | |
| | 707.21 | 1.1 | 0.22 | 1750 | 1.3 | 0.26 | 1730 | 2.1 | 0.41 | 1680 | 4.1 | 0.78 | 1620 | 3550 | |
| | 766.86 | 1.0 | 0.17 | 1510 | 1.2 | 0.20 | 1470 | 1.9 | 0.30 | 1360 | 3.8 | 0.55 | 1230 | 2650 | |
| | 957.05 | 0.78 | 0.14 | 1560 | 0.94 | 0.17 | 1520 | 1.5 | 0.25 | 1410 | 3.0 | 0.45 | 1270 | 2650 | |
| 1194.39 | 0.63 | 0.08 | 1120 | 0.75 | 0.10 | 1090 | 1.2 | 0.14 | 1010 | 2.4 | 0.26 | 910 | 1920 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 241 | 3.82 | 196 | 32.8 | 1550 | 236 | 37.2 | 1470 | 380 | 51.98 | 1270 | 760 | 84 | 1040 | 4010 | 13 (T) 9 (F) |
| | 4.44 | 169 | 29.0 | 1600 | 203 | 32.9 | 1520 | 326 | 46.01 | 1310 | 653 | 75 | 1070 | 4010 | |
| | 5.43 | 138 | 19.7 | 1330 | 166 | 23.4 | 1310 | 267 | 36.67 | 1280 | 534 | 64 | 1110 | 3710 | |
| RE 242 | 13.29 | 56 | 12.5 | 2000 | 68 | 14.8 | 1980 | 109 | 22.27 | 1850 | 218 | 36.2 | 1500 | 4010 | 8 (T) 5 (F) |
| | 15.47 | 48.5 | 9.4 | 1760 | 58 | 11.2 | 1740 | 94 | 17.48 | 1690 | 188 | 32.0 | 1550 | 4010 | |
| | 16.28 | 46.1 | 10.3 | 2030 | 55 | 12.2 | 2010 | 89 | 19.15 | 1950 | 178 | 31.4 | 1600 | 4010 | |
| | 18.95 | 39.6 | 7.8 | 1780 | 47.5 | 9.2 | 1760 | 77 | 14.44 | 1710 | 153 | 27.8 | 1650 | 4010 | |
| | 22.03 | 34.0 | 6.8 | 1820 | 40.9 | 8.1 | 1800 | 66 | 12.73 | 1760 | 132 | 24.5 | 1690 | 4010 | |
| | 25.64 | 29.3 | 5.8 | 1810 | 35.1 | 6.9 | 1790 | 57 | 10.85 | 1740 | 113 | 20.9 | 1670 | 4010 | |
| | 27.49 | 27.3 | 3.9 | 1310 | 32.7 | 4.7 | 1290 | 53 | 7.32 | 1260 | 105 | 14.1 | 1210 | 3610 | |
| | 31.32 | 23.9 | 3.9 | 1470 | 28.7 | 4.6 | 1450 | 46.3 | 7.20 | 1410 | 93 | 13.9 | 1360 | 3710 | |
| | 39.09 | 19.2 | 3.1 | 1490 | 23.0 | 3.7 | 1470 | 37.1 | 5.85 | 1430 | 74 | 11.2 | 1380 | 3710 | |
| RE 243 | 46.24 | 16.2 | 3.9 | 2150 | 19.5 | 4.7 | 2130 | 31.4 | 7.34 | 2070 | 63 | 14.1 | 1990 | 4010 | 6 (T) 4 (F) |
| | 53.82 | 13.9 | 3.0 | 1890 | 16.7 | 3.5 | 1870 | 26.9 | 5.53 | 1820 | 54 | 10.6 | 1750 | 4010 | |
| | 56.65 | 13.2 | 3.3 | 2180 | 15.9 | 3.9 | 2150 | 25.6 | 6.06 | 2100 | 51 | 11.7 | 2010 | 4010 | |
| | 65.94 | 11.4 | 2.5 | 1910 | 13.6 | 2.9 | 1890 | 22.0 | 4.57 | 1840 | 44.0 | 8.8 | 1770 | 4010 | |
| | 69.39 | 10.8 | 2.7 | 2200 | 13.0 | 3.2 | 2180 | 20.9 | 5.01 | 2120 | 41.8 | 9.6 | 2040 | 4010 | |
| | 76.66 | 9.8 | 2.4 | 2210 | 11.7 | 2.9 | 2190 | 18.9 | 4.56 | 2130 | 37.8 | 8.8 | 2050 | 4010 | |
| | 93.91 | 8.0 | 2.0 | 2240 | 9.6 | 2.4 | 2220 | 15.4 | 3.76 | 2160 | 30.9 | 7.2 | 2070 | 4010 | |
| | 95.67 | 7.8 | 2.0 | 2240 | 9.4 | 2.4 | 2220 | 15.2 | 3.70 | 2160 | 30.3 | 7.1 | 2080 | 4010 | |
| | 111.36 | 6.7 | 1.5 | 1970 | 8.1 | 1.8 | 1950 | 13.0 | 2.79 | 1900 | 26.0 | 5.4 | 1820 | 4010 | |
| | 117.20 | 6.4 | 1.7 | 2300 | 7.7 | 1.9 | 2250 | 12.4 | 3.05 | 2180 | 24.7 | 5.9 | 2100 | 4010 | |
| | 147.93 | 5.1 | 1.2 | 2030 | 6.1 | 1.4 | 1980 | 9.8 | 2.13 | 1930 | 19.6 | 4.1 | 1850 | 4010 | |
| | 158.60 | 4.7 | 1.1 | 2040 | 5.7 | 1.3 | 2020 | 9.1 | 2.03 | 1960 | 18.3 | 3.9 | 1890 | 4010 | |
| | 184.62 | 4.1 | 0.97 | 2100 | 4.9 | 1.1 | 2050 | 7.9 | 1.73 | 1950 | 15.7 | 3.3 | 1870 | 4010 | |
| | 197.93 | 3.8 | 0.63 | 1460 | 4.5 | 0.74 | 1450 | 7.3 | 1.17 | 1410 | 14.7 | 2.2 | 1360 | 4010 | |
| | 230.40 | 3.3 | 0.63 | 1700 | 3.9 | 0.74 | 1690 | 6.3 | 1.17 | 1640 | 12.6 | 2.2 | 1580 | 4010 | |
| 281.42 | 2.7 | 0.53 | 1750 | 3.2 | 0.62 | 1710 | 5.2 | 0.93 | 1600 | 10.3 | 1.8 | 1540 | 4010 | | |
| RE 244 | 241.49 | 3.1 | 0.92 | 2570 | 3.7 | 1.08 | 2500 | 6.0 | 1.62 | 2320 | 12.0 | 3.0 | 2190 | 4010 | 5 (T) 4 (F) |
| | 295.84 | 2.5 | 0.78 | 2650 | 3.0 | 0.91 | 2570 | 4.9 | 1.36 | 2390 | 9.8 | 2.5 | 2210 | 4010 | |
| | 326.80 | 2.3 | 0.71 | 2690 | 2.8 | 0.83 | 2610 | 4.4 | 1.25 | 2430 | 8.9 | 2.3 | 2230 | 4010 | |
| | 344.36 | 2.2 | 0.58 | 2310 | 2.6 | 0.68 | 2250 | 4.2 | 1.02 | 2090 | 8.4 | 1.9 | 1940 | 4010 | |
| | 400.35 | 1.9 | 0.60 | 2770 | 2.2 | 0.70 | 2690 | 3.6 | 1.05 | 2510 | 7.2 | 1.9 | 2260 | 4010 | |
| | 442.25 | 1.7 | 0.55 | 2810 | 2.0 | 0.64 | 2730 | 3.3 | 0.97 | 2540 | 6.6 | 1.7 | 2290 | 4010 | |
| | 499.63 | 1.5 | 0.50 | 2860 | 1.8 | 0.58 | 2790 | 2.9 | 0.87 | 2590 | 5.8 | 1.6 | 2330 | 4010 | |
| | 551.93 | 1.4 | 0.46 | 2910 | 1.6 | 0.53 | 2830 | 2.6 | 0.80 | 2630 | 5.3 | 1.4 | 2370 | 4010 | |
| | 676.14 | 1.1 | 0.39 | 3000 | 1.3 | 0.45 | 2920 | 2.1 | 0.67 | 2710 | 4.3 | 1.2 | 2440 | 4010 | |
| | 733.18 | 1.0 | 0.27 | 2310 | 1.2 | 0.32 | 2250 | 2.0 | 0.49 | 2140 | 4.0 | 0.94 | 2060 | 4010 | |
| | 843.83 | 0.89 | 0.32 | 3100 | 1.1 | 0.37 | 3020 | 1.7 | 0.56 | 2810 | 3.4 | 1.0 | 2530 | 4010 | |
| | 915.01 | 0.82 | 0.23 | 2390 | 0.98 | 0.27 | 2330 | 1.6 | 0.40 | 2170 | 3.2 | 0.77 | 2090 | 4010 | |
| | 1065.09 | 0.70 | 0.22 | 2740 | 0.85 | 0.26 | 2670 | 1.4 | 0.39 | 2480 | 2.7 | 0.70 | 2230 | 4010 | |
| | 1141.93 | 0.66 | 0.19 | 2470 | 0.79 | 0.22 | 2410 | 1.3 | 0.33 | 2240 | 2.5 | 0.62 | 2110 | 4010 | |
| | 1300.93 | 0.58 | 0.15 | 2210 | 0.69 | 0.17 | 2150 | 1.1 | 0.26 | 2000 | 2.2 | 0.47 | 1800 | 4010 | |
| 1329.23 | 0.56 | 0.19 | 2830 | 0.68 | 0.22 | 2760 | 1.1 | 0.32 | 2570 | 2.2 | 0.58 | 2310 | 4010 | | |
| 1658.88 | 0.45 | 0.11 | 2060 | 0.54 | 0.13 | 2000 | 0.87 | 0.19 | 1860 | 1.7 | 0.36 | 1770 | 4010 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------------|---------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 242 | 12.22 | 61 | 7.1 | 1030 | 74 | 8.4 | 1020 | 119 | 12.4 | 940 | 237 | 20.2 | 760 | 2640 | 6 (T) 4 (F) |
| | 14.22 | 53 | 7.1 | 1200 | 63 | 8.4 | 1190 | 102 | 12.4 | 1090 | 204 | 20.2 | 880 | 3080 | |
| | 17.37 | 43.2 | 6.9 | 1420 | 52 | 8.1 | 1400 | 83 | 12.4 | 1330 | 167 | 20.2 | 1080 | 3710 | |
| RA 243 | 42.52 | 17.6 | 4.3 | 2140 | 21.2 | 5.1 | 2120 | 34.1 | 8.1 | 2060 | 68 | 15.5 | 1980 | 3710 | 5 (T) 4 (F) |
| | 49.49 | 15.2 | 3.3 | 1880 | 18.2 | 3.9 | 1860 | 29.3 | 6.1 | 1810 | 59 | 11.7 | 1740 | 3710 | |
| | 52.09 | 14.4 | 3.6 | 2170 | 17.3 | 4.2 | 2140 | 27.8 | 6.7 | 2090 | 56 | 12.8 | 2000 | 3710 | |
| | 60.63 | 12.4 | 2.7 | 1900 | 14.8 | 3.2 | 1880 | 23.9 | 5.0 | 1830 | 47.8 | 9.7 | 1760 | 3710 | |
| | 70.49 | 10.6 | 2.4 | 1950 | 12.8 | 2.8 | 1930 | 20.6 | 4.4 | 1880 | 41.1 | 8.5 | 1800 | 3710 | |
| | 82.05 | 9.1 | 2.0 | 1930 | 11.0 | 2.4 | 1910 | 17.7 | 3.8 | 1860 | 35.3 | 7.3 | 1790 | 3710 | |
| | 87.97 | 8.5 | 1.4 | 1400 | 10.2 | 1.6 | 1380 | 16.5 | 2.5 | 1350 | 33.0 | 4.9 | 1290 | 3610 | |
| | 102.40 | 7.3 | 1.4 | 1630 | 8.8 | 1.6 | 1610 | 14.2 | 2.5 | 1570 | 28.3 | 4.9 | 1510 | 3710 | |
| | 125.07 | 6.0 | 1.1 | 1590 | 7.2 | 1.3 | 1570 | 11.6 | 2.0 | 1530 | 23.2 | 3.9 | 1470 | 3710 | |
| RA 244 | 147.97 | 5.1 | 1.4 | 2380 | 6.1 | 1.7 | 2320 | 9.8 | 2.6 | 2210 | 19.6 | 4.9 | 2130 | 3710 | 4 (T) 3 (F) |
| | 172.24 | 4.4 | 1.1 | 2080 | 5.2 | 1.2 | 2020 | 8.4 | 1.9 | 1940 | 16.8 | 3.7 | 1870 | 3710 | |
| | 181.27 | 4.1 | 1.2 | 2460 | 5.0 | 1.4 | 2390 | 8.0 | 2.1 | 2240 | 16.0 | 4.1 | 2150 | 3710 | |
| | 211.00 | 3.6 | 0.90 | 2150 | 4.3 | 1.0 | 2090 | 6.9 | 1.6 | 1970 | 13.7 | 3.1 | 1890 | 3710 | |
| | 222.06 | 3.4 | 1.0 | 2530 | 4.1 | 1.2 | 2460 | 6.5 | 1.8 | 2290 | 13.1 | 3.3 | 2180 | 3710 | |
| | 245.30 | 3.1 | 0.93 | 2570 | 3.7 | 1.1 | 2500 | 5.9 | 1.6 | 2330 | 11.8 | 3.0 | 2190 | 3710 | |
| | 285.54 | 2.6 | 0.69 | 2250 | 3.2 | 0.81 | 2190 | 5.1 | 1.2 | 2030 | 10.2 | 2.3 | 1920 | 3710 | |
| | 306.14 | 2.4 | 0.77 | 2660 | 2.9 | 0.89 | 2590 | 4.7 | 1.3 | 2410 | 9.5 | 2.5 | 2220 | 3710 | |
| | 375.03 | 2.0 | 0.65 | 2740 | 2.4 | 0.75 | 2670 | 3.9 | 1.1 | 2480 | 7.7 | 2.0 | 2240 | 3710 | |
| | 406.67 | 1.8 | 0.47 | 2150 | 2.2 | 0.55 | 2130 | 3.6 | 0.87 | 2070 | 7.1 | 1.7 | 1990 | 3710 | |
| | 436.55 | 1.7 | 0.48 | 2400 | 2.1 | 0.57 | 2330 | 3.3 | 0.85 | 2170 | 6.6 | 1.5 | 1970 | 3710 | |
| | 507.52 | 1.5 | 0.38 | 2190 | 1.8 | 0.45 | 2160 | 2.9 | 0.71 | 2100 | 5.7 | 1.4 | 2020 | 3710 | |
| | 590.77 | 1.3 | 0.37 | 2510 | 1.5 | 0.44 | 2440 | 2.5 | 0.66 | 2270 | 4.9 | 1.2 | 2040 | 3710 | |
| | 633.39 | 1.2 | 0.22 | 1560 | 1.4 | 0.26 | 1550 | 2.3 | 0.41 | 1510 | 4.6 | 0.78 | 1450 | 3610 | |
| | 721.58 | 1.0 | 0.25 | 2020 | 1.2 | 0.29 | 1970 | 2.0 | 0.43 | 1830 | 4.0 | 0.78 | 1650 | 3710 | |
| 900.53 | 0.8 | 0.21 | 2090 | 1.0 | 0.24 | 2040 | 1.6 | 0.36 | 1890 | 3.2 | 0.65 | 1710 | 3710 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|--------------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 311 | 3.60 | 208 | 43.9 | 1960 | 250 | 49.9 | 1860 | 403 | 70 | 1610 | 806 | 113 | 1310 | 4320 | 18 (N) 22 (T) 13 (F) 36 (P) |
| | 4.25 | 176 | 38.5 | 2030 | 212 | 43.8 | 1920 | 341 | 61 | 1670 | 682 | 99 | 1350 | 5630 | |
| | 5.33 | 141 | 25.3 | 1680 | 169 | 30.1 | 1660 | 272 | 47.1 | 1610 | 544 | 82 | 1410 | 4610 | |
| | 6.20 | 121 | 18.4 | 1410 | 145 | 21.8 | 1400 | 234 | 34.2 | 1360 | 468 | 66 | 1310 | 3900 | |
| | 7.50 | 100 | 11.9 | 1110 | 120 | 14.2 | 1100 | 193 | 22.2 | 1070 | 387 | 42.7 | 1030 | 3070 | |
| RE 312 | 12.53 | 60 | 14.9 | 2260 | 72 | 17.3 | 2180 | 116 | 24.1 | 1890 | 231 | 39.2 | 1540 | 4320 | 10 (N) 12 (T) 8 (F) 21 (P) |
| | 14.79 | 51 | 12.3 | 2200 | 61 | 14.6 | 2180 | 98 | 22.9 | 2120 | 196 | 39.2 | 1810 | 5630 | |
| | 15.35 | 48.9 | 12.3 | 2280 | 59 | 14.6 | 2260 | 94 | 20.6 | 1980 | 189 | 33.5 | 1610 | 4320 | |
| | 18.12 | 41.4 | 10.2 | 2230 | 49.7 | 12.1 | 2210 | 80 | 18.9 | 2150 | 160 | 33.5 | 1900 | 5630 | |
| | 20.77 | 36.1 | 6.8 | 1720 | 43.3 | 8.1 | 1700 | 70 | 12.7 | 1650 | 140 | 24.5 | 1590 | 4320 | |
| | 22.74 | 33.0 | 6.6 | 1820 | 39.6 | 7.9 | 1800 | 64 | 12.3 | 1750 | 128 | 23.7 | 1690 | 4610 | |
| | 24.52 | 30.6 | 6.8 | 2030 | 36.7 | 8.1 | 2010 | 59 | 12.7 | 1950 | 118 | 24.5 | 1880 | 5960 | |
| | 26.43 | 28.4 | 4.8 | 1540 | 34.1 | 5.7 | 1520 | 55 | 8.9 | 1480 | 110 | 17.2 | 1420 | 3900 | |
| | 30.77 | 24.4 | 5.0 | 1850 | 29.3 | 5.9 | 1830 | 47.1 | 9.3 | 1780 | 94 | 17.8 | 1720 | 4610 | |
| | 35.77 | 21.0 | 3.6 | 1560 | 25.2 | 4.3 | 1550 | 40.5 | 6.7 | 1510 | 81 | 12.9 | 1450 | 3900 | |
| | 38.40 | 19.5 | 3.9 | 1830 | 23.4 | 4.7 | 1810 | 37.8 | 7.3 | 1760 | 76 | 14.1 | 1690 | 4610 | |
| | 44.64 | 16.8 | 2.9 | 1580 | 20.2 | 3.5 | 1570 | 32.5 | 5.5 | 1520 | 65 | 10.5 | 1470 | 3900 | |
| | 54.00 | 13.9 | 1.9 | 1240 | 16.7 | 2.3 | 1230 | 26.9 | 3.5 | 1200 | 54 | 6.8 | 1150 | 3070 | |
| RE 313 | 43.60 | 17.2 | 4.7 | 2420 | 20.6 | 5.6 | 2400 | 33.3 | 8.8 | 2330 | 67 | 16.8 | 2230 | 4320 | 8 (N) 9 (T) 6 (F) 15 (P) |
| | 51.47 | 14.6 | 3.9 | 2370 | 17.5 | 4.6 | 2340 | 28.2 | 7.3 | 2280 | 56 | 13.9 | 2190 | 5630 | |
| | 53.41 | 14.0 | 3.9 | 2450 | 16.9 | 4.6 | 2430 | 27.1 | 7.2 | 2360 | 54 | 13.9 | 2270 | 4320 | |
| | 63.05 | 11.9 | 3.2 | 2390 | 14.3 | 3.8 | 2370 | 23.0 | 6.0 | 2310 | 46.0 | 11.5 | 2220 | 5630 | |
| | 72.28 | 10.4 | 2.9 | 2500 | 12.5 | 3.5 | 2470 | 20.1 | 5.4 | 2400 | 40.1 | 10.5 | 2310 | 4320 | |
| | 77.24 | 9.7 | 2.7 | 2420 | 11.7 | 3.2 | 2400 | 18.8 | 4.9 | 2330 | 37.5 | 9.5 | 2240 | 5630 | |
| | 85.33 | 8.8 | 2.4 | 2440 | 10.5 | 2.9 | 2410 | 17.0 | 4.5 | 2350 | 34.0 | 8.7 | 2250 | 5630 | |
| | 104.53 | 7.2 | 2.0 | 2510 | 8.6 | 2.4 | 2440 | 13.9 | 3.7 | 2370 | 27.7 | 7.2 | 2280 | 5630 | |
| | 106.49 | 7.0 | 2.0 | 2510 | 8.5 | 2.3 | 2440 | 13.6 | 3.7 | 2380 | 27.2 | 7.0 | 2280 | 5630 | |
| | 130.45 | 5.7 | 1.7 | 2590 | 6.9 | 2.0 | 2520 | 11.1 | 3.0 | 2400 | 22.2 | 5.8 | 2310 | 5630 | |
| | 141.46 | 5.3 | 1.3 | 2240 | 6.4 | 1.6 | 2220 | 10.3 | 2.5 | 2160 | 20.5 | 4.8 | 2080 | 5960 | |
| | 163.71 | 4.6 | 1.1 | 2100 | 5.5 | 1.3 | 2050 | 8.9 | 2.0 | 1960 | 17.7 | 3.8 | 1890 | 4610 | |
| | 176.54 | 4.2 | 1.1 | 2270 | 5.1 | 1.3 | 2250 | 8.2 | 2.0 | 2190 | 16.4 | 3.9 | 2100 | 5960 | |
| | 190.31 | 3.9 | 0.79 | 1770 | 4.7 | 0.92 | 1720 | 7.6 | 1.4 | 1660 | 15.2 | 2.7 | 1590 | 3900 | |
| | 221.54 | 3.4 | 0.84 | 2200 | 4.1 | 0.98 | 2140 | 6.5 | 1.5 | 2000 | 13.1 | 2.8 | 1920 | 4610 | |
| | 257.54 | 2.9 | 0.61 | 1850 | 3.5 | 0.71 | 1800 | 5.6 | 1.1 | 1680 | 11.3 | 2.1 | 1620 | 3900 | |
| | 276.48 | 2.7 | 0.63 | 2040 | 3.3 | 0.74 | 2020 | 5.2 | 1.2 | 1970 | 10.5 | 2.2 | 1890 | 4610 | |
| 321.41 | 2.3 | 0.50 | 1920 | 2.8 | 0.59 | 1860 | 4.5 | 0.88 | 1730 | 9.0 | 1.7 | 1640 | 3900 | | |
| RE 314 | 219.42 | 3.4 | 1.1 | 2800 | 4.1 | 1.30 | 2730 | 6.6 | 1.9 | 2540 | 13.2 | 3.6 | 2380 | 5630 | 6 (N) 7 (T) 5 (F) 12 (P) |
| | 268.80 | 2.8 | 0.93 | 2890 | 3.3 | 1.09 | 2810 | 5.4 | 1.6 | 2620 | 10.8 | 3.0 | 2410 | 5630 | |
| | 296.94 | 2.5 | 0.86 | 2930 | 3.0 | 1.00 | 2850 | 4.9 | 1.5 | 2660 | 9.8 | 2.7 | 2420 | 5630 | |
| | 329.29 | 2.3 | 0.79 | 2980 | 2.7 | 0.92 | 2900 | 4.4 | 1.4 | 2700 | 8.8 | 2.5 | 2440 | 5630 | |
| | 363.76 | 2.1 | 0.72 | 3030 | 2.5 | 0.84 | 2940 | 4.0 | 1.3 | 2740 | 8.0 | 2.3 | 2470 | 5630 | |
| | 416.98 | 1.8 | 0.61 | 2930 | 2.2 | 0.71 | 2850 | 3.5 | 1.1 | 2680 | 7.0 | 2.1 | 2580 | 4320 | |
| | 453.98 | 1.7 | 0.60 | 3130 | 2.0 | 0.70 | 3040 | 3.2 | 1.0 | 2830 | 6.4 | 1.9 | 2550 | 5630 | |
| | 492.27 | 1.5 | 0.56 | 3170 | 1.8 | 0.65 | 3080 | 2.9 | 0.98 | 2870 | 5.9 | 1.8 | 2580 | 5630 | |
| | 556.14 | 1.3 | 0.50 | 3230 | 1.6 | 0.59 | 3140 | 2.6 | 0.88 | 2920 | 5.2 | 1.6 | 2630 | 5630 | |
| | 614.35 | 1.2 | 0.46 | 3280 | 1.5 | 0.54 | 3190 | 2.4 | 0.81 | 2960 | 4.7 | 1.5 | 2670 | 5630 | |
| | 766.71 | 0.98 | 0.38 | 3390 | 1.2 | 0.45 | 3290 | 1.9 | 0.67 | 3070 | 3.8 | 1.2 | 2760 | 5630 | |
| | 795.61 | 0.94 | 0.35 | 3190 | 1.1 | 0.41 | 3100 | 1.8 | 0.61 | 2880 | 3.6 | 1.1 | 2700 | 4320 | |
| | 939.26 | 0.80 | 0.32 | 3490 | 0.96 | 0.38 | 3400 | 1.5 | 0.57 | 3160 | 3.1 | 1.0 | 2850 | 5630 | |
| | 1018.49 | 0.74 | 0.23 | 2660 | 0.88 | 0.27 | 2590 | 1.4 | 0.40 | 2420 | 2.8 | 0.77 | 2320 | 5960 | |
| | 1178.68 | 0.64 | 0.21 | 2840 | 0.76 | 0.24 | 2760 | 1.2 | 0.37 | 2570 | 2.5 | 0.66 | 2310 | 4610 | |
| | 1271.08 | 0.59 | 0.19 | 2750 | 0.71 | 0.22 | 2680 | 1.1 | 0.33 | 2490 | 2.3 | 0.62 | 2350 | 5960 | |
| | 1595.08 | 0.47 | 0.16 | 2970 | 0.56 | 0.19 | 2890 | 0.91 | 0.28 | 2690 | 1.8 | 0.51 | 2420 | 4610 | |
| 1990.66 | 0.38 | 0.11 | 2470 | 0.45 | 0.13 | 2400 | 0.73 | 0.19 | 2230 | 1.5 | 0.36 | 2120 | 4610 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|-------------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 312 | 10.03 | 75 | 18.6 | 2230 | 90 | 22.1 | 2200 | 145 | 34.7 | 2150 | 289 | 58 | 1780 | 4320 | 10 (N) 12 (T) 8 (F) 17 (P) |
| | 11.84 | 63 | 15.4 | 2180 | 76 | 18.3 | 2150 | 122 | 28.7 | 2100 | 245 | 50 | 1840 | 5630 | |
| | 14.40 | 52 | 13.3 | 2270 | 63 | 15.7 | 2250 | 101 | 24.7 | 2190 | 201 | 44.7 | 1980 | 4320 | |
| | 17.00 | 44.1 | 11.0 | 2220 | 53 | 13.0 | 2200 | 85 | 20.4 | 2140 | 171 | 39.2 | 2050 | 5630 | |
| | 21.33 | 35.2 | 7.1 | 1810 | 42.2 | 8.5 | 1800 | 68 | 13.3 | 1750 | 136 | 25.5 | 1680 | 4610 | |
| | 24.80 | 30.2 | 5.2 | 1530 | 36.3 | 6.1 | 1510 | 58 | 9.6 | 1470 | 117 | 18.5 | 1420 | 3900 | |
| | 30.00 | 25.0 | 3.4 | 1200 | 30.0 | 4.0 | 1190 | 48.3 | 6.3 | 1160 | 97 | 12.0 | 1110 | 3070 | |
| RA 313 | 40.09 | 18.7 | 5.2 | 2410 | 22.4 | 6.1 | 2390 | 36.2 | 9.6 | 2320 | 72 | 18.1 | 2180 | 4320 | 6 (N) 7 (T) 5 (F) 11 (P) |
| | 47.33 | 15.8 | 4.3 | 2360 | 19.0 | 5.1 | 2330 | 30.6 | 8.0 | 2270 | 61 | 15.3 | 2180 | 5630 | |
| | 49.11 | 15.3 | 4.3 | 2440 | 18.3 | 5.1 | 2410 | 29.5 | 8.0 | 2350 | 59 | 15.3 | 2260 | 4320 | |
| | 57.98 | 12.9 | 3.5 | 2380 | 15.5 | 4.2 | 2360 | 25.0 | 6.6 | 2290 | 50 | 12.7 | 2210 | 5630 | |
| | 66.46 | 11.3 | 2.4 | 1840 | 13.5 | 2.8 | 1820 | 21.8 | 4.4 | 1770 | 43.6 | 8.5 | 1700 | 4730 | |
| | 72.76 | 10.3 | 2.3 | 1950 | 12.4 | 2.7 | 1930 | 19.9 | 4.3 | 1870 | 39.9 | 8.2 | 1800 | 4610 | |
| | 78.46 | 9.6 | 2.4 | 2170 | 11.5 | 2.8 | 2150 | 18.5 | 4.4 | 2090 | 37.0 | 8.5 | 2010 | 5590 | |
| | 84.58 | 8.9 | 1.7 | 1640 | 10.6 | 2.0 | 1620 | 17.1 | 3.1 | 1580 | 34.3 | 6.0 | 1520 | 3900 | |
| | 98.46 | 7.6 | 1.7 | 1980 | 9.1 | 2.1 | 1960 | 14.7 | 3.2 | 1910 | 29.5 | 6.2 | 1830 | 4610 | |
| | 114.46 | 6.6 | 1.3 | 1670 | 7.9 | 1.5 | 1650 | 12.7 | 2.3 | 1610 | 25.3 | 4.5 | 1550 | 3900 | |
| | 122.88 | 6.1 | 1.4 | 1950 | 7.3 | 1.6 | 1930 | 11.8 | 2.5 | 1880 | 23.6 | 4.9 | 1810 | 4610 | |
| | 142.85 | 5.3 | 1.0 | 1690 | 6.3 | 1.2 | 1670 | 10.2 | 1.9 | 1630 | 20.3 | 3.6 | 1570 | 3900 | |
| | 172.80 | 4.3 | 0.66 | 1330 | 5.2 | 0.79 | 1320 | 8.4 | 1.23 | 1280 | 16.8 | 2.37 | 1230 | 3070 | |
| RA 314 | 139.51 | 5.4 | 1.7 | 2620 | 6.5 | 2.0 | 2590 | 10.4 | 3.1 | 2500 | 20.8 | 5.9 | 2400 | 4320 | 5 (N) 6 (T) 4 (F) 10 (P) |
| | 164.70 | 4.6 | 1.4 | 2680 | 5.5 | 1.7 | 2610 | 8.8 | 2.5 | 2440 | 17.6 | 4.9 | 2340 | 5630 | |
| | 170.91 | 4.4 | 1.4 | 2680 | 5.3 | 1.6 | 2650 | 8.5 | 2.6 | 2580 | 17.0 | 4.8 | 2430 | 4320 | |
| | 201.77 | 3.7 | 1.2 | 2770 | 4.5 | 1.4 | 2690 | 7.2 | 2.1 | 2500 | 14.4 | 4.0 | 2370 | 5630 | |
| | 231.29 | 3.2 | 1.0 | 2690 | 3.9 | 1.2 | 2670 | 6.3 | 1.9 | 2590 | 13.9 | 3.6 | 2470 | 4320 | |
| | 247.17 | 3.0 | 1.0 | 2850 | 3.6 | 1.2 | 2780 | 5.9 | 1.8 | 2580 | 11.7 | 3.3 | 2400 | 5630 | |
| | 273.05 | 2.7 | 0.94 | 2900 | 3.3 | 1.1 | 2820 | 5.3 | 1.6 | 2620 | 10.6 | 3.0 | 2410 | 5630 | |
| | 310.18 | 2.4 | 0.66 | 2320 | 2.9 | 0.77 | 2250 | 4.7 | 1.15 | 2100 | 9.3 | 2.15 | 1960 | 4610 | |
| | 340.76 | 2.2 | 0.78 | 3000 | 2.6 | 0.91 | 2910 | 4.3 | 1.36 | 2710 | 8.5 | 2.45 | 2440 | 5630 | |
| | 417.45 | 1.8 | 0.65 | 3090 | 2.2 | 0.76 | 3010 | 3.5 | 1.14 | 2800 | 6.9 | 2.06 | 2520 | 5630 | |
| | 452.66 | 1.7 | 0.47 | 2400 | 2.0 | 0.55 | 2370 | 3.2 | 0.87 | 2310 | 6.4 | 1.67 | 2220 | 5590 | |
| | 497.11 | 1.5 | 0.36 | 2050 | 1.8 | 0.42 | 1990 | 2.9 | 0.64 | 1850 | 5.8 | 1.15 | 1680 | 3900 | |
| | 564.92 | 1.3 | 0.38 | 2430 | 1.6 | 0.45 | 2400 | 2.6 | 0.71 | 2340 | 5.1 | 1.36 | 2250 | 5590 | |
| | 608.98 | 1.2 | 0.31 | 2110 | 1.5 | 0.36 | 2050 | 2.4 | 0.54 | 1910 | 4.8 | 0.96 | 1720 | 3900 | |
| | 708.92 | 1.1 | 0.33 | 2630 | 1.3 | 0.38 | 2560 | 2.0 | 0.57 | 2380 | 4.1 | 1.03 | 2140 | 4610 | |
| | 824.12 | 0.91 | 0.24 | 2210 | 1.1 | 0.28 | 2150 | 1.8 | 0.41 | 2000 | 3.5 | 0.75 | 1800 | 3900 | |
| | 884.74 | 0.85 | 0.22 | 2190 | 1.0 | 0.26 | 2160 | 1.6 | 0.41 | 2100 | 3.3 | 0.78 | 2020 | 4610 | |
| | 1028.51 | 0.73 | 0.20 | 2280 | 0.88 | 0.23 | 2220 | 1.4 | 0.34 | 2070 | 2.8 | 0.62 | 1860 | 3900 | |
| 1244.16 | 0.60 | 0.13 | 1790 | 0.72 | 0.15 | 1740 | 1.2 | 0.22 | 1620 | 2.3 | 0.40 | 1460 | 3070 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|--------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|--------------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 511 | 3.60 | 208 | 76 | 3400 | 250 | 86 | 3220 | 403 | 121 | 2790 | 806 | 196 | 2260 | 11600 | 19 (N) 24 (T) 14 (F) 37 (P) |
| | 4.25 | 176 | 67 | 3520 | 212 | 76 | 3330 | 341 | 106 | 2890 | 682 | 172 | 2340 | 11600 | |
| | 5.33 | 141 | 52 | 3450 | 169 | 62 | 3420 | 272 | 88 | 3010 | 544 | 143 | 2440 | 9500 | |
| | 6.20 | 121 | 37.9 | 2920 | 145 | 45.1 | 2890 | 234 | 71 | 2810 | 468 | 127 | 2530 | 8050 | |
| | 7.50 | 100 | 24.6 | 2290 | 120 | 29.2 | 2260 | 193 | 45.8 | 2200 | 387 | 88 | 2120 | 6320 | |
| RE 512 | 12.53 | 60 | 27.2 | 4120 | 72 | 30.9 | 3900 | 116 | 43.1 | 3380 | 231 | 70 | 2750 | 11600 | 11 (N) 13 (T) 8 (F) 21 (P) |
| | 14.79 | 51 | 25.4 | 4540 | 61 | 30.1 | 4500 | 98 | 43.1 | 3990 | 196 | 70 | 3240 | 11600 | |
| | 15.35 | 48.9 | 23.2 | 4320 | 59 | 26.4 | 4090 | 94 | 36.9 | 3540 | 189 | 60 | 2880 | 11600 | |
| | 18.12 | 41.4 | 21.0 | 4600 | 49.7 | 24.9 | 4550 | 80 | 36.9 | 4180 | 160 | 60 | 3400 | 11600 | |
| | 20.77 | 36.1 | 13.8 | 3470 | 43.3 | 16.4 | 3430 | 70 | 25.7 | 3340 | 140 | 46.9 | 3050 | 9540 | |
| | 22.74 | 33.0 | 13.6 | 3750 | 39.6 | 16.2 | 3710 | 64 | 25.4 | 3610 | 128 | 48.8 | 3470 | 9500 | |
| | 24.52 | 30.6 | 13.8 | 4090 | 36.7 | 16.4 | 4050 | 59 | 25.7 | 3940 | 118 | 46.9 | 3600 | 11300 | |
| | 26.43 | 28.4 | 9.9 | 3170 | 34.1 | 11.8 | 3140 | 55 | 18.5 | 3060 | 110 | 35.5 | 2940 | 8050 | |
| | 30.77 | 24.4 | 10.2 | 3820 | 29.3 | 12.2 | 3780 | 47.1 | 19.1 | 3680 | 94 | 36.7 | 3530 | 9500 | |
| | 35.77 | 21.0 | 7.5 | 3230 | 25.2 | 8.9 | 3190 | 40.5 | 13.9 | 3110 | 81 | 26.7 | 2990 | 8050 | |
| | 38.40 | 19.5 | 8.0 | 3700 | 23.4 | 9.4 | 3660 | 37.8 | 14.8 | 3560 | 76 | 28.5 | 3420 | 9500 | |
| | 44.64 | 16.8 | 6.0 | 3270 | 20.2 | 7.2 | 3230 | 32.5 | 11.3 | 3150 | 65 | 21.7 | 3030 | 8050 | |
| | 54.00 | 13.9 | 3.9 | 2560 | 16.7 | 4.7 | 2530 | 26.9 | 7.3 | 2470 | 54 | 14.0 | 2370 | 6320 | |
| RE 513 | 43.60 | 17.2 | 9.5 | 4870 | 20.6 | 11.2 | 4820 | 33.3 | 17.6 | 4690 | 67 | 30.0 | 3990 | 11600 | 8 (N) 10 (T) 6 (F) 15 (P) |
| | 51.47 | 14.6 | 8.0 | 4880 | 17.5 | 9.5 | 4830 | 28.2 | 15.0 | 4700 | 56 | 28.7 | 4520 | 11600 | |
| | 53.41 | 14.0 | 7.8 | 4920 | 16.9 | 9.3 | 4870 | 27.1 | 14.5 | 4740 | 54 | 25.7 | 4180 | 11600 | |
| | 63.05 | 11.9 | 6.6 | 4940 | 14.3 | 7.9 | 4880 | 23.0 | 12.3 | 4750 | 46.0 | 23.7 | 4570 | 11600 | |
| | 72.28 | 10.4 | 5.9 | 5020 | 12.5 | 7.0 | 4960 | 20.1 | 10.9 | 4820 | 40.1 | 21.0 | 4640 | 11600 | |
| | 77.24 | 9.7 | 5.5 | 4990 | 11.7 | 6.5 | 4940 | 18.8 | 10.2 | 4810 | 37.5 | 19.6 | 4620 | 11600 | |
| | 85.33 | 8.8 | 5.0 | 5020 | 10.5 | 5.9 | 4970 | 17.0 | 9.3 | 4840 | 34.0 | 17.8 | 4650 | 11600 | |
| | 104.53 | 7.2 | 4.2 | 5160 | 8.6 | 4.9 | 5030 | 13.9 | 7.7 | 4890 | 27.7 | 14.7 | 4700 | 11600 | |
| | 110.50 | 6.8 | 4.0 | 5220 | 8.1 | 4.8 | 5170 | 13.1 | 7.3 | 4940 | 26.2 | 14.1 | 4750 | 11600 | |
| | 130.45 | 5.7 | 3.5 | 5340 | 6.9 | 4.0 | 5200 | 11.1 | 6.2 | 4960 | 22.2 | 12.0 | 4760 | 11600 | |
| | 141.46 | 5.3 | 2.7 | 4520 | 6.4 | 3.2 | 4480 | 10.3 | 5.0 | 4360 | 20.5 | 9.7 | 4190 | 11300 | |
| | 163.71 | 4.6 | 2.2 | 4330 | 5.5 | 2.6 | 4220 | 8.9 | 4.0 | 4040 | 17.7 | 7.8 | 3890 | 9500 | |
| | 176.54 | 4.2 | 2.2 | 4580 | 5.1 | 2.6 | 4530 | 8.2 | 4.1 | 4410 | 16.4 | 7.9 | 4240 | 11300 | |
| | 190.31 | 3.9 | 1.6 | 3650 | 4.7 | 1.9 | 3550 | 7.6 | 2.9 | 3420 | 15.2 | 5.7 | 3290 | 8050 | |
| | 221.54 | 3.4 | 1.7 | 4540 | 4.1 | 2.0 | 4410 | 6.5 | 3.0 | 4120 | 13.1 | 5.8 | 3960 | 9500 | |
| | 257.54 | 2.9 | 1.3 | 3830 | 3.5 | 1.5 | 3720 | 5.6 | 2.2 | 3480 | 11.3 | 4.3 | 3340 | 8050 | |
| | 276.48 | 2.7 | 1.3 | 4140 | 3.3 | 1.5 | 4100 | 5.2 | 2.4 | 3990 | 10.5 | 4.5 | 3830 | 9500 | |
| 321.41 | 2.3 | 1.0 | 3960 | 2.8 | 1.2 | 3850 | 4.5 | 1.8 | 3580 | 9.0 | 3.5 | 3390 | 8050 | | |
| RE 514 | 219.42 | 3.4 | 2.3 | 5780 | 4.1 | 2.7 | 5620 | 6.6 | 4.0 | 5230 | 13.2 | 7.5 | 4910 | 11600 | 7 (N) 8 (T) 5 (F) 12 (P) |
| | 268.80 | 2.8 | 1.9 | 5960 | 3.3 | 2.2 | 5800 | 5.4 | 3.4 | 5390 | 10.8 | 6.2 | 4960 | 11600 | |
| | 296.94 | 2.5 | 1.8 | 6050 | 3.0 | 2.1 | 5880 | 4.9 | 3.1 | 5470 | 9.8 | 5.6 | 4990 | 11600 | |
| | 329.29 | 2.3 | 1.6 | 6140 | 2.7 | 1.9 | 5980 | 4.4 | 2.8 | 5560 | 8.8 | 5.1 | 5020 | 11600 | |
| | 363.76 | 2.1 | 1.5 | 6240 | 2.5 | 1.7 | 6070 | 4.0 | 2.6 | 5650 | 8.0 | 4.7 | 5080 | 11600 | |
| | 416.98 | 1.8 | 1.3 | 6100 | 2.2 | 1.5 | 5940 | 3.5 | 2.2 | 5580 | 7.0 | 4.3 | 5340 | 11600 | |
| | 453.98 | 1.7 | 1.2 | 6450 | 2.0 | 1.4 | 6270 | 3.2 | 2.2 | 5840 | 6.4 | 3.9 | 5260 | 11600 | |
| | 492.27 | 1.5 | 1.2 | 6530 | 1.8 | 1.3 | 6350 | 2.9 | 2.0 | 5910 | 5.9 | 3.6 | 5320 | 11600 | |
| | 556.14 | 1.3 | 1.0 | 6650 | 1.6 | 1.2 | 6470 | 2.6 | 1.8 | 6020 | 5.2 | 3.3 | 5420 | 11600 | |
| | 614.35 | 1.2 | 0.96 | 6750 | 1.5 | 1.1 | 6570 | 2.4 | 1.7 | 6110 | 4.7 | 3.0 | 5500 | 11600 | |
| | 766.71 | 0.98 | 0.64 | 5670 | 1.2 | 0.76 | 5610 | 1.9 | 1.2 | 5460 | 3.8 | 2.3 | 5250 | 11600 | |
| | 939.26 | 0.80 | 0.64 | 6950 | 0.96 | 0.76 | 6880 | 1.5 | 1.2 | 6520 | 3.1 | 2.1 | 5870 | 11600 | |
| | 1018.49 | 0.74 | 0.46 | 5370 | 0.88 | 0.53 | 5220 | 1.4 | 0.80 | 4880 | 2.8 | 1.5 | 4690 | 11300 | |
| | 1178.68 | 0.64 | 0.43 | 5840 | 0.76 | 0.50 | 5680 | 1.2 | 0.75 | 5290 | 2.5 | 1.4 | 4760 | 9500 | |
| | 1271.08 | 0.59 | 0.38 | 5550 | 0.71 | 0.44 | 5400 | 1.1 | 0.66 | 5030 | 2.3 | 1.3 | 4750 | 11300 | |
| | 1595.08 | 0.47 | 0.33 | 6120 | 0.56 | 0.39 | 5950 | 0.91 | 0.58 | 5540 | 1.8 | 1.1 | 4990 | 9500 | |
| | 1854.28 | 0.40 | 0.24 | 5160 | 0.49 | 0.28 | 5020 | 0.78 | 0.42 | 4670 | 1.6 | 0.76 | 4200 | 8050 | |
| | 1990.66 | 0.38 | 0.22 | 5000 | 0.45 | 0.25 | 4860 | 0.73 | 0.38 | 4520 | 1.5 | 0.72 | 4290 | 9500 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|-------------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 512 | 10.03 | 75 | 27.1 | 3240 | 90 | 30.8 | 3070 | 145 | 43.0 | 2660 | 289 | 70 | 2160 | 11600 | 10 (N) 12 (T) 9 (F) 17 (P) |
| | 11.84 | 63 | 27.1 | 3820 | 76 | 30.8 | 3620 | 122 | 43.0 | 3140 | 245 | 70 | 2550 | 11600 | |
| | 14.40 | 52 | 20.0 | 3440 | 63 | 22.8 | 3260 | 101 | 31.8 | 2820 | 201 | 51.7 | 2290 | 10000 | |
| | 17.00 | 44.1 | 20.0 | 4060 | 53 | 22.8 | 3840 | 85 | 31.8 | 3330 | 171 | 51.7 | 2710 | 11600 | |
| | 20.89 | 35.9 | 9.7 | 2430 | 43.1 | 11.6 | 2400 | 69 | 18.1 | 2340 | 139 | 34.9 | 2250 | 6320 | |
| | 21.33 | 35.2 | 14.7 | 3740 | 42.2 | 17.5 | 3700 | 68 | 27.4 | 3600 | 136 | 51.7 | 3400 | 9500 | |
| | 24.80 | 30.2 | 10.7 | 3160 | 36.3 | 12.7 | 3130 | 58 | 19.9 | 3040 | 117 | 38.3 | 2930 | 8050 | |
| | 30.00 | 25.0 | 6.9 | 2480 | 30.0 | 8.2 | 2450 | 48.3 | 12.9 | 2390 | 97 | 24.8 | 2290 | 6320 | |
| RA 513 | 40.09 | 18.7 | 7.3 | 3390 | 22.4 | 8.6 | 3350 | 36.2 | 12.7 | 3070 | 72 | 20.7 | 2490 | 8660 | 7 (N) 9 (T) 5 (F) 12 (P) |
| | 47.33 | 15.8 | 7.3 | 4000 | 19.0 | 8.6 | 3960 | 30.6 | 12.7 | 3630 | 61 | 20.7 | 2950 | 10300 | |
| | 49.11 | 15.3 | 7.3 | 4150 | 18.3 | 8.6 | 4110 | 29.5 | 12.7 | 3760 | 59 | 20.7 | 3060 | 10700 | |
| | 57.98 | 12.9 | 7.3 | 4900 | 15.5 | 8.6 | 4850 | 25.0 | 12.7 | 4440 | 50 | 20.7 | 3610 | 11600 | |
| | 66.46 | 11.3 | 4.8 | 3710 | 13.5 | 5.7 | 3670 | 21.8 | 8.9 | 3570 | 43.6 | 17.2 | 3430 | 9540 | |
| | 72.76 | 10.3 | 4.7 | 4010 | 12.4 | 5.6 | 3970 | 19.9 | 8.8 | 3860 | 39.9 | 17.0 | 3710 | 9500 | |
| | 78.46 | 9.6 | 4.8 | 4370 | 11.5 | 5.7 | 4330 | 18.5 | 8.9 | 4210 | 37.0 | 17.2 | 4050 | 11300 | |
| | 84.58 | 8.9 | 3.4 | 3390 | 10.6 | 4.1 | 3360 | 17.1 | 6.4 | 3270 | 34.3 | 12.3 | 3140 | 8050 | |
| | 98.46 | 7.6 | 3.6 | 4080 | 9.1 | 4.2 | 4040 | 14.7 | 6.6 | 3930 | 29.5 | 12.8 | 3780 | 9500 | |
| | 114.46 | 6.6 | 2.6 | 3450 | 7.9 | 3.1 | 3410 | 12.7 | 4.8 | 3320 | 25.3 | 9.3 | 3190 | 8050 | |
| | 122.88 | 6.1 | 2.8 | 3950 | 7.3 | 3.3 | 3910 | 11.8 | 5.2 | 3810 | 23.6 | 9.9 | 3660 | 9500 | |
| | 142.85 | 5.3 | 2.1 | 3500 | 6.3 | 2.5 | 3460 | 10.2 | 3.9 | 3360 | 20.3 | 7.5 | 3230 | 8050 | |
| | 172.80 | 4.3 | 1.4 | 2740 | 5.2 | 1.6 | 2710 | 8.4 | 2.5 | 2640 | 16.8 | 4.9 | 2530 | 6320 | |
| RA 514 | 139.51 | 5.4 | 3.4 | 5440 | 6.5 | 4.1 | 5390 | 10.4 | 6.1 | 5020 | 20.8 | 11.8 | 4810 | 11600 | 6 (N) 7 (T) 5 (F) 11 (P) |
| | 164.70 | 4.6 | 3.0 | 5530 | 5.5 | 3.5 | 5380 | 8.8 | 5.2 | 5020 | 17.6 | 10.0 | 4830 | 11600 | |
| | 170.91 | 4.4 | 2.8 | 5350 | 5.3 | 3.3 | 5300 | 8.5 | 5.1 | 5150 | 17.0 | 9.7 | 4870 | 11600 | |
| | 201.77 | 3.7 | 2.5 | 5710 | 4.5 | 2.9 | 5550 | 7.2 | 4.4 | 5160 | 14.4 | 8.3 | 4880 | 11600 | |
| | 231.29 | 3.2 | 2.1 | 5600 | 3.9 | 2.5 | 5540 | 6.3 | 4.0 | 5400 | 12.5 | 7.3 | 4950 | 11600 | |
| | 247.17 | 3.0 | 2.1 | 5880 | 3.6 | 2.5 | 5720 | 5.9 | 3.7 | 5320 | 11.7 | 6.8 | 4940 | 11600 | |
| | 273.05 | 2.7 | 1.9 | 5970 | 3.3 | 2.3 | 5810 | 5.3 | 3.4 | 5410 | 10.6 | 6.2 | 4970 | 11600 | |
| | 310.18 | 2.4 | 1.4 | 4770 | 2.9 | 1.6 | 4640 | 4.7 | 2.4 | 4320 | 9.3 | 4.4 | 4030 | 9500 | |
| | 340.76 | 2.2 | 1.4 | 5410 | 2.6 | 1.7 | 5360 | 4.3 | 2.6 | 5210 | 8.5 | 5.0 | 5010 | 11600 | |
| | 417.45 | 1.8 | 1.3 | 6370 | 2.2 | 1.6 | 6200 | 3.5 | 2.4 | 5760 | 6.9 | 4.2 | 5190 | 11600 | |
| | 452.66 | 1.7 | 0.94 | 4830 | 2.0 | 1.1 | 4780 | 3.2 | 1.8 | 4660 | 6.4 | 3.4 | 4480 | 11300 | |
| | 497.11 | 1.5 | 0.75 | 4230 | 1.8 | 0.88 | 4110 | 2.9 | 1.3 | 3820 | 5.8 | 2.4 | 3470 | 8050 | |
| | 564.92 | 1.3 | 0.77 | 4910 | 1.6 | 0.91 | 4850 | 2.6 | 1.4 | 4720 | 5.1 | 2.7 | 4530 | 11300 | |
| | 608.98 | 1.2 | 0.63 | 4360 | 1.5 | 0.74 | 4240 | 2.4 | 1.1 | 3940 | 4.8 | 2.0 | 3550 | 8050 | |
| | 708.92 | 1.1 | 0.67 | 5410 | 1.3 | 0.79 | 5260 | 2.0 | 1.2 | 4900 | 4.1 | 2.1 | 4410 | 9500 | |
| | 824.12 | 0.91 | 0.49 | 4560 | 1.1 | 0.57 | 4440 | 1.8 | 0.85 | 4130 | 3.5 | 1.5 | 3720 | 8050 | |
| | 884.74 | 0.85 | 0.44 | 4420 | 1.0 | 0.52 | 4380 | 1.6 | 0.82 | 4260 | 3.3 | 1.6 | 4100 | 9500 | |
| | 1028.51 | 0.73 | 0.40 | 4720 | 0.88 | 0.47 | 4590 | 1.4 | 0.71 | 4270 | 2.8 | 1.3 | 3840 | 8050 | |
| 1244.16 | 0.60 | 0.26 | 3680 | 0.72 | 0.31 | 3580 | 1.2 | 0.46 | 3340 | 2.3 | 0.82 | 3000 | 6320 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|--------------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 611 | 4.00 | 188 | 93 | 4630 | 225 | 106 | 4380 | 363 | 148 | 3800 | 725 | 240 | 3080 | 14900 | 20 (N) 24 (T) 14 (F) 37 (P) |
| | 4.55 | 165 | 84 | 4730 | 198 | 95 | 4480 | 319 | 133 | 3880 | 638 | 216 | 3160 | 12860 | |
| RE 612 | 14.40 | 52 | 34.3 | 5970 | 63 | 40.7 | 5910 | 101 | 62 | 5580 | 201 | 100 | 4530 | 14900 | 15 (N) 14 (T) 9 (F) 22 (P) |
| | 16.36 | 45.8 | 26.8 | 5320 | 55 | 31.9 | 5260 | 89 | 50 | 5120 | 177 | 90 | 4630 | 12860 | |
| | 17.00 | 44.1 | 29.3 | 6030 | 53 | 34.8 | 5970 | 85 | 55 | 5810 | 171 | 89 | 4760 | 14900 | |
| | 19.32 | 38.8 | 23.0 | 5370 | 46.6 | 27.3 | 5310 | 75 | 42.7 | 5170 | 150 | 81 | 4870 | 12860 | |
| | 21.33 | 35.2 | 23.6 | 6110 | 42.2 | 28.1 | 6040 | 68 | 44.0 | 5880 | 136 | 76 | 5100 | 14900 | |
| | 24.24 | 30.9 | 18.5 | 5440 | 37.1 | 22.0 | 5380 | 60 | 34.5 | 5240 | 120 | 66 | 5030 | 12860 | |
| | 28.18 | 26.6 | 16.1 | 5490 | 31.9 | 19.1 | 5430 | 51 | 29.9 | 5280 | 103 | 58 | 5080 | 12860 | |
| | 30.00 | 25.0 | 12.2 | 4440 | 30.0 | 14.5 | 4400 | 48.3 | 22.8 | 4280 | 97 | 43.8 | 4110 | 12300 | |
| | 34.09 | 22.0 | 12.2 | 5050 | 26.4 | 14.5 | 5000 | 42.5 | 22.8 | 4860 | 85 | 43.8 | 4670 | 12860 | |
| RE 613 | 50.11 | 15.0 | 10.8 | 6410 | 18.0 | 12.9 | 6350 | 28.9 | 20.2 | 6180 | 58 | 38.8 | 5940 | 14900 | 9 (N) 10 (T) 7 (F) 17 (P) |
| | 56.95 | 13.2 | 8.5 | 5710 | 15.8 | 10.1 | 5650 | 25.5 | 15.8 | 5500 | 51 | 30.4 | 5290 | 12860 | |
| | 61.39 | 12.2 | 9.0 | 6490 | 14.7 | 10.6 | 6420 | 23.6 | 16.7 | 6250 | 47.2 | 32.0 | 6000 | 14900 | |
| | 69.76 | 10.8 | 7.0 | 5780 | 12.9 | 8.3 | 5720 | 20.8 | 13.1 | 5560 | 41.6 | 25.1 | 5350 | 12860 | |
| | 82.36 | 9.1 | 6.0 | 5830 | 10.9 | 7.1 | 5770 | 17.6 | 11.2 | 5620 | 35.2 | 21.5 | 5400 | 12860 | |
| | 90.95 | 8.2 | 6.2 | 6630 | 9.9 | 7.3 | 6570 | 15.9 | 11.5 | 6390 | 31.9 | 22.1 | 6140 | 14900 | |
| | 98.08 | 7.6 | 5.8 | 6660 | 9.2 | 6.8 | 6590 | 14.8 | 10.7 | 6420 | 29.6 | 20.6 | 6170 | 14900 | |
| | 111.45 | 6.7 | 4.5 | 5930 | 8.1 | 5.4 | 5870 | 13.0 | 8.4 | 5710 | 26.0 | 16.1 | 5490 | 12860 | |
| | 123.08 | 6.1 | 4.7 | 6830 | 7.3 | 5.5 | 6680 | 11.8 | 8.7 | 6500 | 23.6 | 16.6 | 6250 | 14900 | |
| | 139.86 | 5.4 | 3.7 | 6060 | 6.4 | 4.3 | 5950 | 10.4 | 6.8 | 5790 | 20.7 | 13.0 | 5560 | 12860 | |
| | 153.60 | 4.9 | 3.9 | 7070 | 5.9 | 4.6 | 6870 | 9.4 | 7.0 | 6580 | 18.9 | 13.5 | 6330 | 14900 | |
| | 174.55 | 4.3 | 3.0 | 6270 | 5.2 | 3.6 | 6100 | 8.3 | 5.5 | 5860 | 16.6 | 10.6 | 5640 | 12860 | |
| | 202.91 | 3.7 | 2.7 | 6410 | 4.4 | 3.1 | 6240 | 7.1 | 4.8 | 5910 | 14.3 | 9.2 | 5680 | 12860 | |
| RE 614 | 174.39 | 4.3 | 3.6 | 7200 | 5.2 | 4.2 | 7010 | 8.3 | 6.4 | 6630 | 16.6 | 12.3 | 6370 | 14900 | 7 (N) 9 (T) 6 (F) 13 (P) |
| | 205.88 | 3.6 | 3.1 | 7390 | 4.4 | 3.6 | 7190 | 7.0 | 5.5 | 6690 | 14.1 | 10.5 | 6430 | 14900 | |
| | 233.95 | 3.2 | 2.4 | 6550 | 3.8 | 2.8 | 6380 | 6.2 | 4.3 | 5960 | 12.4 | 8.2 | 5730 | 12860 | |
| | 252.21 | 3.0 | 2.6 | 7620 | 3.6 | 3.1 | 7410 | 5.7 | 4.6 | 6890 | 11.5 | 8.7 | 6510 | 14900 | |
| | 286.60 | 2.6 | 2.0 | 6760 | 3.1 | 2.4 | 6570 | 5.1 | 3.6 | 6120 | 10.1 | 6.8 | 5800 | 12860 | |
| | 316.50 | 2.4 | 2.1 | 7820 | 2.8 | 2.5 | 7670 | 4.6 | 3.8 | 7140 | 9.2 | 7.0 | 6590 | 14900 | |
| | 354.17 | 2.1 | 2.0 | 8020 | 2.5 | 2.3 | 7800 | 4.1 | 3.4 | 7260 | 8.2 | 6.3 | 6640 | 14900 | |
| | 402.47 | 1.9 | 1.5 | 7110 | 2.2 | 1.8 | 6920 | 3.6 | 2.7 | 6440 | 7.2 | 4.9 | 5910 | 12860 | |
| | 450.73 | 1.7 | 1.3 | 6680 | 2.0 | 1.5 | 6610 | 3.2 | 2.4 | 6430 | 6.4 | 4.6 | 6180 | 14900 | |
| | 502.28 | 1.5 | 1.3 | 7360 | 1.8 | 1.5 | 7160 | 2.9 | 2.2 | 6660 | 5.8 | 4.0 | 6000 | 12860 | |
| | 565.83 | 1.3 | 1.3 | 8610 | 1.6 | 1.5 | 8370 | 2.6 | 2.3 | 7790 | 5.1 | 4.2 | 7020 | 14900 | |
| | 642.99 | 1.2 | 1.0 | 7640 | 1.4 | 1.2 | 7430 | 2.3 | 1.8 | 6910 | 4.5 | 3.3 | 6220 | 12860 | |
| | 706.15 | 1.1 | 1.1 | 8900 | 1.3 | 1.3 | 8660 | 2.1 | 1.9 | 8060 | 4.1 | 3.5 | 7250 | 14900 | |
| | 802.45 | 0.93 | 0.86 | 7900 | 1.1 | 1.0 | 7680 | 1.8 | 1.5 | 7150 | 3.6 | 2.7 | 6440 | 12860 | |
| | 886.15 | 0.85 | 0.86 | 8810 | 1.0 | 1.0 | 8570 | 1.6 | 1.5 | 7990 | 3.3 | 2.8 | 7510 | 14900 | |
| | 1006.99 | 0.74 | 0.71 | 8170 | 0.89 | 0.82 | 7950 | 1.4 | 1.2 | 7400 | 2.9 | 2.2 | 6660 | 12860 | |
| | 1105.92 | 0.68 | 0.64 | 8180 | 0.81 | 0.76 | 8100 | 1.3 | 1.2 | 7880 | 2.6 | 2.3 | 7570 | 14900 | |
| | 1256.73 | 0.60 | 0.58 | 8450 | 0.72 | 0.68 | 8220 | 1.2 | 1.0 | 7650 | 2.3 | 1.8 | 6890 | 12860 | |
| | 1416.08 | 0.53 | 0.40 | 6590 | 0.64 | 0.47 | 6410 | 1.0 | 0.71 | 6020 | 2.0 | 1.4 | 5780 | 12860 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------------|---------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|-------------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 612 | 11.14 | 67 | 27.1 | 3600 | 81 | 30.8 | 3410 | 130 | 43.0 | 2950 | 260 | 70 | 2400 | 14900 | 11 (N) 12 (T) 9 (F) 16 (P) |
| | 12.66 | 59 | 27.1 | 4090 | 71 | 30.8 | 3870 | 115 | 43.0 | 3350 | 229 | 70 | 2720 | 12800 | |
| | 16.00 | 46.9 | 20.0 | 3820 | 56 | 22.8 | 3620 | 91 | 31.8 | 3140 | 181 | 51.7 | 2550 | 11100 | |
| | 18.18 | 41.3 | 20.0 | 4340 | 49.5 | 22.8 | 4110 | 80 | 31.8 | 3560 | 160 | 51.7 | 2890 | 12800 | |
| RA 613 | 40.11 | 18.7 | 13.6 | 6330 | 22.4 | 16.1 | 6270 | 36.1 | 25.3 | 6100 | 72 | 48.6 | 5860 | 14900 | 9 (N) 10 (T) 8 (F) 14 (P) |
| | 45.58 | 16.5 | 10.6 | 5640 | 19.7 | 12.6 | 5580 | 31.8 | 19.8 | 5430 | 64 | 38.1 | 5220 | 12800 | |
| | 47.36 | 15.8 | 11.6 | 6390 | 19.0 | 13.8 | 6330 | 30.6 | 21.6 | 6160 | 61 | 41.6 | 5920 | 14900 | |
| | 57.60 | 13.0 | 9.7 | 6460 | 15.6 | 11.5 | 6400 | 25.2 | 18.0 | 6220 | 50 | 34.6 | 5980 | 14900 | |
| | 65.45 | 11.5 | 7.6 | 5760 | 13.8 | 9.0 | 5700 | 22.2 | 14.1 | 5540 | 44.3 | 27.1 | 5330 | 12800 | |
| | 68.00 | 11.0 | 8.3 | 6530 | 13.2 | 9.8 | 6460 | 21.3 | 15.4 | 6280 | 42.6 | 29.6 | 6040 | 14900 | |
| | 78.51 | 9.6 | 6.4 | 5820 | 11.5 | 7.6 | 5760 | 18.5 | 11.9 | 5600 | 36.9 | 22.8 | 5380 | 12800 | |
| | 85.33 | 8.8 | 6.7 | 6610 | 10.5 | 7.9 | 6540 | 17.0 | 12.4 | 6370 | 34.0 | 23.9 | 6120 | 14900 | |
| | 96.97 | 7.7 | 5.2 | 5890 | 9.3 | 6.2 | 5830 | 15.0 | 9.7 | 5670 | 29.9 | 18.7 | 5450 | 12800 | |
| | 112.73 | 6.7 | 4.5 | 5940 | 8.0 | 5.4 | 5880 | 12.9 | 8.4 | 5720 | 25.7 | 16.2 | 5500 | 12800 | |
| RA 614 | 160.36 | 4.7 | 3.9 | 7110 | 5.6 | 4.6 | 6920 | 9.0 | 7.0 | 6600 | 18.1 | 13.5 | 6340 | 14900 | 6 (N) 7 (T) 5 (F) 11 (P) |
| | 182.23 | 4.1 | 3.1 | 6310 | 4.9 | 3.6 | 6140 | 8.0 | 5.5 | 5880 | 15.9 | 10.6 | 5650 | 12800 | |
| | 196.45 | 3.8 | 3.3 | 7330 | 4.6 | 3.8 | 7140 | 7.4 | 5.8 | 6680 | 14.8 | 11.1 | 6420 | 14900 | |
| | 231.92 | 3.2 | 2.9 | 7520 | 3.9 | 3.3 | 7320 | 6.3 | 5.0 | 6810 | 12.5 | 9.5 | 6480 | 14900 | |
| | 263.54 | 2.8 | 2.2 | 6670 | 3.4 | 2.6 | 6490 | 5.5 | 3.9 | 6040 | 11.0 | 7.5 | 5770 | 12800 | |
| | 291.03 | 2.6 | 2.4 | 7780 | 3.1 | 2.8 | 7570 | 5.0 | 4.1 | 7050 | 10.0 | 7.7 | 6560 | 14900 | |
| | 313.85 | 2.4 | 2.2 | 7870 | 2.9 | 2.6 | 7660 | 4.6 | 3.9 | 7130 | 9.2 | 7.2 | 6590 | 14900 | |
| | 356.64 | 2.1 | 1.7 | 6990 | 2.5 | 2.0 | 6800 | 4.1 | 3.0 | 6320 | 8.1 | 5.6 | 5870 | 12800 | |
| | 393.85 | 1.9 | 1.8 | 7920 | 2.3 | 2.1 | 7840 | 3.7 | 3.2 | 7380 | 7.4 | 5.8 | 6680 | 14900 | |
| | 447.55 | 1.7 | 1.4 | 7230 | 2.0 | 1.7 | 7030 | 3.2 | 2.5 | 6540 | 6.5 | 4.5 | 5950 | 12800 | |
| | 491.52 | 1.5 | 1.4 | 7810 | 1.8 | 1.7 | 7730 | 3.0 | 2.6 | 7520 | 5.9 | 4.8 | 6870 | 14900 | |
| | 558.55 | 1.3 | 1.2 | 7480 | 1.6 | 1.4 | 7270 | 2.6 | 2.1 | 6770 | 5.2 | 3.7 | 6090 | 12800 | |
| | 629.37 | 1.2 | 0.84 | 5960 | 1.4 | 0.99 | 5900 | 2.3 | 1.6 | 5740 | 4.6 | 3.0 | 5520 | 12800 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|--------------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 811 | 3.56 | 211 | 155 | 6860 | 253 | 108 | 3970 | 407 | 150 | 3440 | — | — | — | 18600 | 30 (N) 29 (T) 19 (F) 56 (P) |
| | 4.15 | 181 | 118 | 6100 | 217 | 95 | 4090 | 349 | 133 | 3550 | — | — | — | 16800 | |
| | 5.10 | 147 | 81 | 5130 | 176 | 81 | 4250 | 284 | 113 | 3690 | — | — | — | 14200 | |
| | 5.82 | 129 | 60 | 4370 | 155 | 72 | 4330 | 249 | 102 | 3800 | — | — | — | 12100 | |
| | 6.86 | 109 | 44.2 | 3760 | 131 | 52 | 3720 | 211 | 82 | 3620 | — | — | — | 10400 | |
| RE 812 | 12.83 | 58 | 47.6 | 7380 | 70 | 45.1 | 5830 | 113 | 63 | 5060 | 226 | 102 | 4110 | 18600 | 17 (N) 16 (T) 11 (F) 31 (P) |
| | 15.14 | 49.5 | 39.9 | 7310 | 59 | 40.1 | 6130 | 96 | 56 | 5310 | 192 | 91 | 4320 | 18600 | |
| | 17.65 | 42.5 | 31.0 | 6630 | 51 | 35.5 | 6320 | 82 | 49.5 | 5470 | 164 | 80.5 | 4450 | 16800 | |
| | 18.36 | 40.8 | 24.9 | 5520 | 49.0 | 29.5 | 5470 | 79 | 46.3 | 5320 | 158 | 76.5 | 4400 | 14200 | |
| | 22.15 | 33.9 | 25.0 | 6710 | 40.6 | 29.7 | 6640 | 65 | 42.2 | 5860 | 131 | 68.6 | 4760 | 16800 | |
| | 25.75 | 29.1 | 18.8 | 5870 | 34.9 | 22.4 | 5810 | 56 | 35.1 | 5660 | 113 | 61.8 | 4980 | 16200 | |
| | 27.20 | 27.6 | 17.2 | 5650 | 33.1 | 20.4 | 5590 | 53 | 31.9 | 5440 | 107 | 58.1 | 4950 | 14200 | |
| | 31.62 | 23.7 | 14.9 | 5700 | 28.5 | 17.7 | 5640 | 45.9 | 27.7 | 5490 | 92 | 52.3 | 5180 | 14200 | |
| | 36.11 | 20.8 | 11.1 | 4850 | 24.9 | 13.2 | 4800 | 40.2 | 20.7 | 4670 | 80 | 39.7 | 4490 | 12100 | |
| | 38.25 | 19.6 | 12.2 | 5660 | 23.5 | 14.5 | 5610 | 37.9 | 22.8 | 5460 | 76 | 43.8 | 5240 | 14200 | |
| | 43.68 | 17.2 | 9.3 | 4900 | 20.6 | 11.0 | 4850 | 33.2 | 17.3 | 4720 | 66 | 33.2 | 4540 | 12100 | |
| 51.43 | 14.6 | 6.8 | 4220 | 17.5 | 8.1 | 4180 | 28.2 | 12.6 | 4060 | 56 | 24.3 | 3910 | 10400 | | |
| RE 813 | 52.69 | 14.2 | 12.6 | 7850 | 17.1 | 15.0 | 7770 | 27.5 | 23.5 | 7560 | 55 | 39.0 | 6270 | 18600 | 12 (N) 12 (T) 8 (F) 22 (P) |
| | 54.68 | 13.7 | 12.4 | 8020 | 16.5 | 14.8 | 7940 | 26.5 | 21.2 | 7060 | 53 | 34.4 | 5730 | 18600 | |
| | 63.75 | 11.8 | 9.5 | 7130 | 14.1 | 11.3 | 7060 | 22.7 | 17.6 | 6870 | 45.5 | 33.6 | 6540 | 16800 | |
| | 75.26 | 10.0 | 8.1 | 7200 | 12.0 | 9.6 | 7120 | 19.3 | 15.1 | 6930 | 38.5 | 29.0 | 6660 | 16800 | |
| | 77.10 | 9.7 | 7.9 | 7210 | 11.7 | 9.4 | 7130 | 18.8 | 14.8 | 6940 | 37.6 | 28.4 | 6670 | 16800 | |
| | 87.35 | 8.6 | 7.0 | 7230 | 10.3 | 8.3 | 7150 | 16.6 | 13.1 | 6960 | 33.2 | 25.1 | 6690 | 18600 | |
| | 101.85 | 7.4 | 6.2 | 7450 | 8.8 | 7.2 | 7250 | 14.2 | 11.3 | 7050 | 28.5 | 21.8 | 6780 | 16800 | |
| | 109.62 | 6.8 | 5.1 | 6600 | 8.2 | 6.1 | 6530 | 13.2 | 9.5 | 6360 | 26.5 | 18.3 | 6110 | 16500 | |
| | 127.81 | 5.9 | 5.1 | 7700 | 7.0 | 6.0 | 7500 | 11.3 | 9.2 | 7150 | 22.7 | 17.6 | 6870 | 16800 | |
| | 134.80 | 5.6 | 4.0 | 6310 | 6.7 | 4.6 | 6130 | 10.8 | 7.2 | 5960 | 21.5 | 13.9 | 5730 | 14200 | |
| | 156.92 | 4.8 | 3.5 | 6450 | 5.7 | 4.1 | 6280 | 9.2 | 6.3 | 6010 | 18.5 | 12.1 | 5780 | 14200 | |
| | 182.42 | 4.1 | 3.1 | 6600 | 4.9 | 3.6 | 6420 | 7.9 | 5.4 | 6060 | 15.9 | 10.5 | 5830 | 14200 | |
| | 195.84 | 3.8 | 2.9 | 6670 | 4.6 | 3.4 | 6490 | 7.4 | 5.1 | 6090 | 14.8 | 9.8 | 5850 | 14200 | |
| | 227.66 | 3.3 | 2.5 | 6830 | 4.0 | 3.0 | 6640 | 6.4 | 4.4 | 6180 | 12.7 | 8.5 | 5900 | 14200 | |
| | 251.98 | 3.0 | 1.9 | 5770 | 3.6 | 2.3 | 5610 | 5.8 | 3.4 | 5220 | 11.5 | 6.5 | 5020 | 12100 | |
| 275.40 | 2.7 | 2.0 | 6340 | 3.3 | 2.3 | 6280 | 5.3 | 3.6 | 6110 | 10.5 | 7.0 | 5870 | 14200 | | |
| 314.47 | 2.4 | 1.6 | 5960 | 2.9 | 1.9 | 5800 | 4.6 | 2.8 | 5400 | 9.2 | 5.3 | 5080 | 12100 | | |
| RE 814 | 183.36 | 4.1 | 4.0 | 8430 | 4.9 | 4.7 | 8340 | 7.9 | 7.4 | 8120 | 15.8 | 14.3 | 7800 | 18600 | 9 (N) 9 (T) 7 (F) 17 (P) |
| | 224.62 | 3.3 | 3.3 | 8530 | 4.0 | 3.9 | 8440 | 6.5 | 6.1 | 8210 | 12.9 | 11.8 | 7900 | 18600 | |
| | 261.91 | 2.9 | 2.9 | 8590 | 3.4 | 3.3 | 8360 | 5.5 | 5.0 | 7780 | 11.1 | 9.2 | 7160 | 16800 | |
| | 275.17 | 2.7 | 2.7 | 8630 | 3.3 | 3.2 | 8540 | 5.3 | 5.1 | 8310 | 10.5 | 9.8 | 7990 | 18600 | |
| | 320.85 | 2.3 | 2.4 | 8860 | 2.8 | 2.8 | 8620 | 4.5 | 4.2 | 8020 | 9.0 | 7.6 | 7240 | 16800 | |
| | 354.43 | 2.1 | 2.2 | 9000 | 2.5 | 2.6 | 8750 | 4.1 | 3.9 | 8140 | 8.2 | 7.0 | 7330 | 16800 | |
| | 393.66 | 1.9 | 2.1 | 9300 | 2.3 | 2.4 | 9200 | 3.7 | 3.7 | 8770 | 7.4 | 7.2 | 8430 | 18600 | |
| | 459.00 | 1.6 | 1.8 | 9350 | 2.0 | 2.1 | 9100 | 3.2 | 3.1 | 8470 | 6.3 | 5.6 | 7620 | 16800 | |
| | 503.94 | 1.5 | 1.4 | 7990 | 1.8 | 1.6 | 7910 | 2.9 | 2.6 | 7690 | 5.8 | 4.9 | 7390 | 18600 | |
| | 541.88 | 1.4 | 1.5 | 9590 | 1.7 | 1.8 | 9330 | 2.7 | 2.7 | 8680 | 5.4 | 4.8 | 7820 | 16800 | |
| | 634.83 | 1.2 | 1.1 | 7970 | 1.4 | 1.3 | 7750 | 2.3 | 1.9 | 7210 | 4.6 | 3.4 | 6500 | 14200 | |
| | 733.31 | 1.0 | 1.1 | 9430 | 1.2 | 1.3 | 9330 | 2.0 | 2.1 | 9080 | 4.0 | 3.8 | 8180 | 16800 | |
| | 792.27 | 0.95 | 0.90 | 8240 | 1.1 | 1.1 | 8020 | 1.8 | 1.6 | 7460 | 3.7 | 2.8 | 6720 | 14200 | |
| | 905.33 | 0.83 | 0.81 | 8410 | 0.99 | 0.94 | 8180 | 1.6 | 1.4 | 7610 | 3.2 | 2.5 | 6850 | 14200 | |
| | 1052.44 | 0.71 | 0.71 | 8600 | 0.86 | 0.83 | 8370 | 1.4 | 1.2 | 7790 | 2.8 | 2.2 | 7010 | 14200 | |
| | 1129.85 | 0.66 | 0.67 | 8700 | 0.80 | 0.78 | 8460 | 1.3 | 1.2 | 7870 | 2.6 | 2.1 | 7090 | 14200 | |
| | 1313.45 | 0.57 | 0.59 | 8900 | 0.69 | 0.69 | 8660 | 1.1 | 1.0 | 8050 | 2.2 | 1.9 | 7250 | 14200 | |
| | 1410.05 | 0.53 | 0.55 | 8990 | 0.64 | 0.65 | 8750 | 1.0 | 0.97 | 8140 | 2.1 | 1.7 | 7330 | 14200 | |
| | 1639.18 | 0.46 | 0.49 | 9200 | 0.55 | 0.57 | 8950 | 0.88 | 0.85 | 8330 | 1.8 | 1.5 | 7500 | 14200 | |
| 1814.25 | 0.41 | 0.37 | 7780 | 0.50 | 0.43 | 7560 | 0.80 | 0.65 | 7040 | 1.6 | 1.2 | 6340 | 12100 | | |
| 1982.88 | 0.38 | 0.34 | 7650 | 0.45 | 0.39 | 7440 | 0.73 | 0.59 | 6920 | 1.5 | 1.1 | 6570 | 14200 | | |
| 2264.19 | 0.33 | 0.31 | 8040 | 0.40 | 0.36 | 7820 | 0.64 | 0.54 | 7280 | 1.3 | 0.97 | 6550 | 12100 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|--------------------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 812 | 10.41 | 72 | 46.6 | 5790 | 86 | 53 | 5480 | 139 | 74 | 4750 | 278 | 120 | 3860 | 18600 | 16 (N) 16 (T) 13 (F) 29 (P) |
| | 12.14 | 62 | 41.2 | 5960 | 74 | 46.8 | 5650 | 119 | 65.4 | 4890 | 239 | 106 | 3970 | 16800 | |
| | 14.25 | 53 | 37.4 | 6360 | 63 | 42.5 | 6020 | 102 | 59.4 | 5220 | 204 | 96 | 4240 | 18600 | |
| | 16.62 | 45.1 | 33.1 | 6550 | 54 | 37.6 | 6200 | 87 | 52.5 | 5380 | 175 | 85 | 4370 | 16800 | |
| | 20.40 | 36.8 | 22.9 | 5560 | 44.1 | 27.1 | 5500 | 71 | 42.5 | 5350 | 142 | 72 | 4540 | 14200 | |
| | 23.29 | 32.2 | 17.0 | 4730 | 38.6 | 20.2 | 4680 | 62 | 31.7 | 4560 | 124 | 61 | 4380 | 12100 | |
| | 27.43 | 27.3 | 12.5 | 4070 | 32.8 | 14.8 | 4030 | 53 | 23.2 | 3920 | 106 | 44.6 | 3770 | 10400 | |
| RA 813 | 35.73 | 21.0 | 18.9 | 7830 | 25.2 | 22.4 | 7750 | 40.6 | 32.0 | 6870 | 81 | 52 | 5580 | 18600 | 12 (N) 12 (T) 9 (F) 25 (P) |
| | 41.66 | 18.0 | 14.4 | 6960 | 21.6 | 17.1 | 6890 | 34.8 | 26.8 | 6700 | 70 | 46.0 | 5750 | 16800 | |
| | 51.30 | 14.6 | 13.4 | 7990 | 17.5 | 15.9 | 7910 | 28.3 | 24.8 | 7660 | 57 | 40.4 | 6220 | 18600 | |
| | 60.56 | 12.4 | 11.2 | 7910 | 14.9 | 13.4 | 7830 | 23.9 | 20.9 | 7620 | 47.9 | 35.9 | 6540 | 18600 | |
| | 70.62 | 10.6 | 8.7 | 7170 | 12.7 | 10.4 | 7100 | 20.5 | 16.3 | 6910 | 41.1 | 31.3 | 6640 | 16800 | |
| | 76.00 | 9.9 | 7.3 | 6460 | 11.8 | 8.7 | 6400 | 19.1 | 13.6 | 6230 | 38.2 | 26.2 | 5980 | 16500 | |
| | 88.62 | 8.5 | 7.1 | 7290 | 10.2 | 8.4 | 7190 | 16.4 | 13.1 | 7000 | 32.7 | 25.3 | 6730 | 16800 | |
| | 103.02 | 7.3 | 5.3 | 6360 | 8.7 | 6.3 | 6290 | 14.1 | 9.9 | 6120 | 28.2 | 19.0 | 5890 | 16200 | |
| | 108.80 | 6.9 | 4.8 | 6110 | 8.3 | 5.7 | 6050 | 13.3 | 9.0 | 5890 | 26.7 | 17.3 | 5660 | 14200 | |
| | 126.48 | 5.9 | 4.2 | 6240 | 7.1 | 5.0 | 6100 | 11.5 | 7.8 | 5940 | 22.9 | 15.0 | 5710 | 14200 | |
| | 144.42 | 5.2 | 3.2 | 5300 | 6.2 | 3.7 | 5200 | 10.0 | 5.8 | 5060 | 20.1 | 11.2 | 4860 | 12100 | |
| | 153.00 | 4.9 | 3.4 | 6130 | 5.9 | 4.1 | 6070 | 9.5 | 6.4 | 5910 | 19.0 | 12.3 | 5680 | 14200 | |
| | 174.71 | 4.3 | 2.7 | 5460 | 5.2 | 3.1 | 5310 | 8.3 | 4.9 | 5110 | 16.6 | 9.4 | 4910 | 12100 | |
| RA 814 | 142.82 | 5.3 | 5.3 | 8590 | 6.3 | 6.3 | 8500 | 10.2 | 9.8 | 8210 | 20.3 | 18.5 | 7760 | 18600 | 8 (N) 8 (T) 6 (F) 15 (P) |
| | 168.61 | 4.4 | 4.4 | 8390 | 5.3 | 5.2 | 8300 | 8.6 | 8.2 | 8080 | 17.2 | 15.7 | 7770 | 18600 | |
| | 174.96 | 4.3 | 4.4 | 8690 | 5.1 | 5.2 | 8600 | 8.3 | 8.2 | 8370 | 16.6 | 15.5 | 7940 | 18600 | |
| | 206.55 | 3.6 | 3.6 | 8490 | 4.4 | 4.3 | 8400 | 7.0 | 6.8 | 8180 | 14.0 | 13.0 | 7860 | 18600 | |
| | 211.58 | 3.5 | 2.9 | 6850 | 4.3 | 3.4 | 6780 | 6.9 | 5.3 | 6600 | 13.7 | 10.2 | 6340 | 16500 | |
| | 246.71 | 3.0 | 2.9 | 7990 | 3.6 | 3.4 | 7910 | 5.9 | 5.3 | 7700 | 11.8 | 9.9 | 7130 | 16800 | |
| | 279.52 | 2.7 | 2.4 | 7720 | 3.2 | 2.9 | 7640 | 5.2 | 4.5 | 7440 | 10.4 | 8.7 | 7150 | 18600 | |
| | 302.23 | 2.5 | 2.4 | 8090 | 3.0 | 2.8 | 8000 | 4.8 | 4.4 | 7790 | 9.6 | 8.1 | 7210 | 16800 | |
| | 352.12 | 2.1 | 1.8 | 7290 | 2.6 | 2.1 | 7090 | 4.1 | 3.2 | 6600 | 8.2 | 5.9 | 6050 | 14200 | |
| | 408.99 | 1.8 | 1.8 | 8230 | 2.2 | 2.1 | 8140 | 3.5 | 3.3 | 7920 | 7.1 | 6.3 | 7490 | 16800 | |
| | 431.36 | 1.7 | 1.5 | 7520 | 2.1 | 1.8 | 7310 | 3.4 | 2.7 | 6800 | 6.7 | 4.8 | 6130 | 14200 | |
| | 502.15 | 1.5 | 1.4 | 7690 | 1.8 | 1.6 | 7480 | 2.9 | 2.4 | 6960 | 5.8 | 4.3 | 6270 | 14200 | |
| | 583.75 | 1.3 | 1.2 | 7870 | 1.5 | 1.4 | 7660 | 2.5 | 2.1 | 7120 | 5.0 | 3.7 | 6410 | 14200 | |
| | 626.69 | 1.2 | 1.1 | 7960 | 1.4 | 1.3 | 7740 | 2.3 | 2.0 | 7200 | 4.6 | 3.5 | 6480 | 14200 | |
| | 728.52 | 1.0 | 0.99 | 8140 | 1.2 | 1.2 | 7920 | 2.0 | 1.7 | 7370 | 4.0 | 3.1 | 6630 | 14200 | |
| | 806.33 | 0.93 | 0.75 | 6880 | 1.1 | 0.88 | 6690 | 1.8 | 1.3 | 6230 | 3.6 | 2.4 | 5610 | 12100 | |
| | 881.28 | 0.85 | 0.68 | 6780 | 1.0 | 0.81 | 6710 | 1.6 | 1.3 | 6530 | 3.3 | 2.4 | 6270 | 14200 | |
| | 1006.31 | 0.75 | 0.62 | 7110 | 0.89 | 0.73 | 6920 | 1.4 | 1.1 | 6440 | 2.9 | 2.0 | 5800 | 12100 | |
| 1184.91 | 0.63 | 0.45 | 6100 | 0.76 | 0.53 | 5940 | 1.2 | 0.80 | 5520 | 2.4 | 1.4 | 4970 | 10400 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|----------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 1021 | 3.56 | 211 | 130 | 5750 | 253 | 148 | 5440 | 407 | 206 | 4720 | — | — | — | 27200 | 36 (T) 22 (F) 58 (P) |
| | 4.15 | 181 | 115 | 5920 | 217 | 131 | 5610 | 349 | 182 | 4860 | — | — | — | 24200 | |
| | 5.10 | 147 | 97 | 6160 | 176 | 111 | 5830 | 284 | 154 | 5050 | — | — | — | 20400 | |
| | 5.82 | 129 | 87 | 6320 | 155 | 100 | 6010 | 249 | 139 | 5200 | — | — | — | 17400 | |
| | 6.86 | 109 | 64 | 5440 | 131 | 76 | 5380 | 211 | 119 | 5240 | — | — | — | 15000 | |
| RE 1022 | 12.83 | 58 | 54 | 8440 | 70 | 62 | 8000 | 113 | 86 | 6930 | 226 | 140 | 5630 | 27200 | 20 (T) 13 (F) 33 (P) |
| | 15.14 | 49.5 | 48.4 | 8880 | 59 | 55 | 8400 | 96 | 77 | 7280 | 192 | 125 | 5920 | 27200 | |
| | 17.65 | 42.5 | 42.8 | 9140 | 51 | 48.6 | 8660 | 82 | 68 | 7500 | 164 | 110 | 6090 | 24200 | |
| | 19.00 | 39.5 | 41.3 | 9500 | 47.4 | 46.9 | 9000 | 76 | 66 | 7800 | 153 | 106 | 6330 | 27200 | |
| | 22.15 | 33.9 | 36.3 | 9720 | 40.6 | 41.5 | 9270 | 65 | 58 | 8030 | 131 | 94 | 6520 | 24200 | |
| | 25.75 | 29.1 | 31.5 | 9810 | 34.9 | 37.3 | 9700 | 56 | 52 | 8400 | 113 | 85 | 6830 | 24200 | |
| | 27.20 | 27.6 | 24.8 | 8170 | 33.1 | 29.5 | 8080 | 53 | 46.2 | 7870 | 107 | 79.7 | 6780 | 20400 | |
| | 31.62 | 23.7 | 21.5 | 8240 | 28.5 | 25.6 | 8150 | 45.9 | 40.1 | 7930 | 92 | 71.7 | 7100 | 20400 | |
| | 36.11 | 20.8 | 16.1 | 7020 | 24.9 | 19.1 | 6940 | 40.2 | 29.9 | 6760 | 80 | 57.5 | 6490 | 17400 | |
| | 38.25 | 19.6 | 18.0 | 8330 | 23.5 | 21.4 | 8240 | 37.9 | 33.5 | 8020 | 76 | 62.7 | 7510 | 20400 | |
| | 43.68 | 17.2 | 13.4 | 7090 | 20.6 | 15.9 | 7020 | 33.2 | 25.0 | 6830 | 66 | 48.0 | 6570 | 17400 | |
| 51.43 | 14.6 | 9.8 | 6110 | 17.5 | 11.6 | 6040 | 28.2 | 18.3 | 5880 | 56 | 35.1 | 5650 | 15000 | | |
| RE 1023 | 52.69 | 14.2 | 18.6 | 11600 | 17.1 | 22.1 | 11500 | 27.5 | 32.9 | 10600 | 55 | 53.5 | 8600 | 27200 | 15 (T) 10 (F) 22 (P) |
| | 54.68 | 13.7 | 18.0 | 11600 | 16.5 | 21.4 | 11500 | 26.5 | 32.1 | 10700 | 53 | 52.1 | 8700 | 27200 | |
| | 63.75 | 11.8 | 13.7 | 10300 | 14.1 | 16.3 | 10200 | 22.7 | 25.6 | 9950 | 45.5 | 46.0 | 8960 | 24200 | |
| | 73.99 | 10.1 | 13.6 | 11900 | 12.2 | 16.1 | 11700 | 19.6 | 25.2 | 11400 | 39.2 | 42.2 | 9500 | 27200 | |
| | 81.00 | 9.3 | 12.6 | 12100 | 11.1 | 14.8 | 11800 | 17.9 | 23.1 | 11400 | 35.8 | 39.6 | 9800 | 27200 | |
| | 87.35 | 8.6 | 11.8 | 12200 | 10.3 | 13.8 | 11900 | 16.6 | 21.5 | 11500 | 33.2 | 37.5 | 10000 | 27200 | |
| | 89.62 | 8.4 | 10.0 | 10600 | 10.0 | 11.8 | 10400 | 16.2 | 18.5 | 10100 | 32.4 | 35.6 | 9750 | 24200 | |
| | 101.85 | 7.4 | 9.0 | 10800 | 8.8 | 10.5 | 10500 | 14.2 | 16.4 | 10200 | 28.5 | 31.6 | 9820 | 24200 | |
| | 109.62 | 6.8 | 9.8 | 12600 | 8.2 | 11.4 | 12300 | 13.2 | 17.4 | 11600 | 26.5 | 32.0 | 10700 | 27200 | |
| | 127.81 | 5.9 | 7.4 | 11200 | 7.0 | 8.6 | 10900 | 11.3 | 13.3 | 10300 | 22.7 | 25.5 | 9950 | 24200 | |
| | 148.58 | 5.0 | 6.5 | 11400 | 6.1 | 7.6 | 11100 | 9.8 | 11.5 | 10400 | 19.5 | 22.1 | 10000 | 24200 | |
| | 159.51 | 4.7 | 6.1 | 11500 | 5.6 | 7.2 | 11200 | 9.1 | 10.8 | 10500 | 18.2 | 20.7 | 10100 | 24200 | |
| | 185.43 | 4.0 | 5.4 | 11800 | 4.9 | 6.3 | 11500 | 7.8 | 9.4 | 10700 | 15.6 | 18.0 | 10200 | 24200 | |
| | 195.84 | 3.8 | 4.2 | 9650 | 4.6 | 4.9 | 9390 | 7.4 | 7.4 | 8810 | 14.8 | 14.2 | 8460 | 20400 | |
| | 227.66 | 3.3 | 3.7 | 9870 | 4.0 | 4.3 | 9600 | 6.4 | 6.4 | 8930 | 12.7 | 12.3 | 8540 | 20400 | |
| | 275.40 | 2.7 | 3.1 | 10160 | 3.3 | 3.6 | 9880 | 5.3 | 5.5 | 9190 | 10.5 | 10.3 | 8630 | 20400 | |
| 314.47 | 2.4 | 2.3 | 8630 | 2.9 | 2.7 | 8390 | 4.6 | 4.1 | 7810 | 9.2 | 7.7 | 7350 | 17400 | | |
| RE 1024 | 190.27 | 3.9 | 6.3 | 13700 | 4.7 | 7.3 | 13300 | 7.6 | 11.0 | 12400 | 15.2 | 20.4 | 11500 | 27200 | 12 (T) 8 (F) 17 (P) |
| | 224.62 | 3.3 | 5.4 | 14100 | 4.0 | 6.4 | 13700 | 6.5 | 9.5 | 12700 | 12.9 | 17.4 | 11700 | 27200 | |
| | 257.49 | 2.9 | 4.8 | 14400 | 3.5 | 5.7 | 14000 | 5.6 | 8.5 | 13000 | 11.3 | 15.3 | 11700 | 27200 | |
| | 275.17 | 2.7 | 4.6 | 14500 | 3.3 | 5.3 | 14100 | 5.3 | 8.0 | 13100 | 10.5 | 14.4 | 11800 | 27200 | |
| | 315.43 | 2.4 | 4.1 | 14800 | 2.9 | 4.8 | 14400 | 4.6 | 7.1 | 13400 | 9.2 | 12.9 | 12100 | 27200 | |
| | 345.32 | 2.2 | 3.7 | 14500 | 2.6 | 4.3 | 14400 | 4.2 | 6.6 | 13600 | 8.4 | 11.9 | 12200 | 27200 | |
| | 393.66 | 1.9 | 3.4 | 15300 | 2.3 | 3.9 | 14900 | 3.7 | 5.9 | 13900 | 7.4 | 10.7 | 12500 | 27200 | |
| | 503.94 | 1.5 | 2.7 | 15900 | 1.8 | 3.2 | 15500 | 2.9 | 4.8 | 14400 | 5.8 | 8.6 | 13000 | 27200 | |
| | 583.20 | 1.3 | 2.3 | 15400 | 1.5 | 2.7 | 15000 | 2.5 | 4.2 | 14400 | 5.0 | 7.6 | 13200 | 27200 | |
| | 632.40 | 1.2 | 2.1 | 15600 | 1.4 | 2.5 | 15200 | 2.3 | 3.8 | 14500 | 4.6 | 7.1 | 13400 | 27200 | |
| | 733.31 | 1.0 | 1.7 | 14500 | 1.2 | 2.0 | 14100 | 2.0 | 3.0 | 13200 | 4.0 | 5.4 | 11900 | 24200 | |
| | 857.19 | 0.87 | 1.5 | 14900 | 1.0 | 1.8 | 14500 | 1.7 | 2.6 | 13500 | 3.4 | 4.8 | 12100 | 24200 | |
| | 920.24 | 0.82 | 1.4 | 15100 | 0.98 | 1.7 | 14600 | 1.6 | 2.5 | 13600 | 3.2 | 4.5 | 12300 | 24200 | |
| | 984.96 | 0.76 | 1.3 | 14700 | 0.91 | 1.5 | 14600 | 1.5 | 2.4 | 14200 | 2.9 | 4.7 | 13700 | 27200 | |
| | 1148.46 | 0.65 | 1.2 | 15600 | 0.78 | 1.4 | 15100 | 1.3 | 2.1 | 14100 | 2.5 | 3.7 | 12700 | 24200 | |
| | 1273.11 | 0.59 | 0.87 | 12800 | 0.71 | 1.0 | 12500 | 1.1 | 1.5 | 11600 | 2.3 | 2.8 | 10400 | 20400 | |
| | 1410.05 | 0.53 | 0.80 | 13000 | 0.64 | 0.94 | 12700 | 1.0 | 1.4 | 11800 | 2.1 | 2.5 | 10600 | 20400 | |
| | 1588.85 | 0.47 | 0.72 | 13200 | 0.57 | 0.85 | 12900 | 0.91 | 1.3 | 12000 | 1.8 | 2.3 | 10800 | 20400 | |
| | 1814.25 | 0.41 | 0.54 | 11200 | 0.50 | 0.63 | 10900 | 0.80 | 0.94 | 10200 | 1.6 | 1.70 | 9170 | 17400 | |
| 1982.88 | 0.38 | 0.60 | 13700 | 0.45 | 0.70 | 13300 | 0.73 | 1.05 | 12400 | 1.5 | 1.89 | 11200 | 20400 | | |
| 2264.19 | 0.33 | 0.45 | 11600 | 0.40 | 0.52 | 11300 | 0.64 | 0.78 | 10500 | 1.3 | 1.41 | 9480 | 17400 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|----------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 1022 | 10.41 | 72 | 64 | 7930 | 86 | 73 | 7510 | 139 | 101 | 6510 | 278 | 165 | 5290 | 27200 | 19 (T) 14 (F) 29 (P) |
| | 12.14 | 61 | 56 | 8170 | 74 | 64 | 7740 | 119 | 90 | 6707 | 239 | 146 | 5450 | 24200 | |
| | 14.25 | 53 | 51.3 | 8720 | 63 | 58 | 8250 | 102 | 81 | 7152 | 204 | 132 | 5810 | 24700 | |
| | 16.62 | 45 | 45.3 | 8980 | 54 | 52 | 8500 | 87 | 72 | 7369 | 175 | 117 | 5990 | 24200 | |
| | 20.40 | 36.8 | 33.0 | 8030 | 44.1 | 39.2 | 7950 | 71 | 61 | 7660 | 142 | 99 | 6220 | 20400 | |
| | 23.29 | 32.2 | 24.6 | 6840 | 38.6 | 29.3 | 6770 | 62 | 45.9 | 6590 | 124 | 88 | 6330 | 17400 | |
| | 27.43 | 27.3 | 18.0 | 5890 | 32.8 | 21.4 | 5830 | 53 | 33.5 | 5672 | 106 | 64 | 5450 | 15000 | |
| RA 1023 | 35.73 | 21.0 | 27.3 | 11300 | 25.2 | 31.4 | 10900 | 40.6 | 43.9 | 9423 | 81 | 71 | 7650 | 27200 | 14 (T) 10 (F) 25 (P) |
| | 41.66 | 18.0 | 20.8 | 10100 | 21.6 | 24.7 | 9980 | 34.8 | 38.8 | 9707 | 70 | 63 | 7890 | 24200 | |
| | 49.18 | 15.3 | 17.8 | 10200 | 18.3 | 21.1 | 10100 | 29.5 | 33.2 | 9800 | 59 | 56 | 8290 | 24200 | |
| | 59.82 | 12.5 | 14.8 | 10300 | 15.0 | 17.6 | 10200 | 24.2 | 27.6 | 9910 | 48.5 | 48.9 | 8790 | 24200 | |
| | 61.71 | 12.2 | 14.4 | 10300 | 14.6 | 17.1 | 10200 | 23.5 | 26.8 | 9927 | 47.0 | 47.8 | 8870 | 24200 | |
| | 70.62 | 10.6 | 12.7 | 10400 | 12.7 | 15.0 | 10300 | 20.5 | 23.6 | 10004 | 41.1 | 43.5 | 9240 | 24200 | |
| | 76.00 | 9.9 | 13.5 | 11900 | 11.8 | 15.9 | 11700 | 19.1 | 24.9 | 11396 | 38.2 | 42.0 | 9600 | 27200 | |
| | 88.62 | 8.5 | 8.5 | 8740 | 10.2 | 12.1 | 10400 | 16.4 | 19.0 | 10135 | 32.7 | 36.6 | 9740 | 24200 | |
| | 103.02 | 7.3 | 9.0 | 10800 | 8.7 | 10.5 | 10500 | 14.1 | 16.5 | 10222 | 28.2 | 31.7 | 9830 | 24200 | |
| | 108.80 | 6.9 | 7.0 | 8840 | 8.3 | 8.3 | 8750 | 13.3 | 13.0 | 8514 | 26.7 | 25.0 | 8180 | 20400 | |
| | 126.48 | 5.9 | 6.1 | 9030 | 7.1 | 7.2 | 8830 | 11.5 | 11.3 | 8588 | 22.9 | 21.7 | 8250 | 20400 | |
| | 153.00 | 4.9 | 5.2 | 9290 | 5.9 | 6.1 | 9040 | 9.5 | 9.4 | 8682 | 19.0 | 18.1 | 8340 | 20400 | |
| | 174.71 | 4.3 | 3.9 | 7890 | 5.2 | 4.5 | 7680 | 8.3 | 7.0 | 7394 | 16.6 | 13.5 | 7110 | 17400 | |
| | RA 1024 | 142.82 | 5.3 | 7.5 | 12100 | 6.3 | 8.9 | 11900 | 10.2 | 13.1 | 10941 | 20.3 | 21.2 | 8890 | |
| 168.61 | | 4.5 | 7.1 | 13500 | 5.3 | 8.2 | 13100 | 8.6 | 12.3 | 12190 | 17.2 | 21.2 | 10500 | 27200 | |
| 174.96 | | 4.3 | 6.8 | 13500 | 5.1 | 8.0 | 13200 | 8.3 | 12.0 | 12258 | 16.6 | 21.2 | 10900 | 27200 | |
| 206.55 | | 3.6 | 5.9 | 13900 | 4.4 | 6.9 | 13500 | 7.0 | 10.4 | 12570 | 14.0 | 19.2 | 11600 | 27200 | |
| 236.77 | | 3.2 | 4.9 | 13200 | 3.8 | 5.8 | 13100 | 6.1 | 9.2 | 12711 | 12.2 | 16.8 | 11700 | 27200 | |
| 259.20 | | 2.9 | 4.9 | 14300 | 3.5 | 5.7 | 14000 | 5.6 | 8.6 | 13009 | 11.2 | 15.5 | 11700 | 27200 | |
| 302.23 | | 2.5 | 3.7 | 12700 | 3.0 | 4.3 | 12400 | 4.8 | 6.5 | 11511 | 9.6 | 11.8 | 10400 | 24200 | |
| 350.77 | | 2.1 | 3.7 | 14500 | 2.6 | 4.3 | 14400 | 4.1 | 6.6 | 13618 | 8.3 | 11.9 | 12300 | 27200 | |
| 408.99 | | 1.8 | 2.9 | 13300 | 2.2 | 3.4 | 13000 | 3.5 | 5.0 | 12050 | 7.1 | 9.1 | 10900 | 24200 | |
| 475.46 | | 1.6 | 2.5 | 13600 | 1.9 | 3.0 | 13200 | 3.0 | 4.4 | 12327 | 6.1 | 8.0 | 11100 | 24200 | |
| 510.42 | | 1.5 | 2.4 | 13800 | 1.8 | 2.8 | 13400 | 2.8 | 4.2 | 12460 | 5.7 | 7.5 | 11200 | 24200 | |
| 593.37 | | 1.3 | 2.1 | 14100 | 1.5 | 2.4 | 13700 | 2.4 | 3.7 | 12748 | 4.9 | 6.6 | 11500 | 24200 | |
| 706.15 | | 1.1 | 1.5 | 11700 | 1.3 | 1.7 | 11400 | 2.1 | 2.6 | 10602 | 4.1 | 4.6 | 9550 | 20400 | |
| 806.33 | | 0.93 | 1.1 | 9950 | 1.1 | 1.3 | 9680 | 1.8 | 1.9 | 9004 | 3.6 | 3.4 | 8110 | 17400 | |
| 881.28 | | 0.85 | 1.2 | 12100 | 1.0 | 1.4 | 11800 | 1.6 | 2.1 | 10963 | 3.3 | 3.8 | 9870 | 20400 | |
| 1006.31 | | 0.75 | 0.90 | 10300 | 0.89 | 1.1 | 10000 | 1.4 | 1.6 | 9311 | 2.9 | 2.8 | 8380 | 17400 | |
| 1184.91 | | 0.63 | 0.66 | 8830 | 0.76 | 0.77 | 8590 | 1.2 | 1.15 | 7991 | 2.4 | 2.1 | 7200 | 15000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|----------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 1521 | 4.09 | 183 | 193 | 9800 | 220 | 219 | 9280 | 354 | 306 | 8040 | — | — | — | 39000 | 44 (T) |
| | 5.25 | 143 | 158 | 10300 | 171 | 179 | 9730 | 276 | 250 | 8430 | — | — | — | 30500 | 36 (H) |
| | 6.23 | 120 | 114 | 8780 | 144 | 135 | 8690 | 233 | 211 | 8460 | — | — | — | 24200 | 28 (F) |
| RE 1522 | 14.73 | 51 | 78 | 13900 | 61 | 89 | 13200 | 98 | 124 | 11400 | 197 | 201 | 9270 | 39000 | 25 (T) 21 (H) 16 (F) |
| | 17.39 | 43.1 | 68 | 14400 | 52 | 78 | 13600 | 83 | 108 | 11800 | 167 | 176 | 9590 | 39000 | |
| | 21.82 | 34.4 | 53 | 14100 | 41.3 | 64 | 14000 | 66 | 90 | 12300 | 133 | 146 | 9990 | 38900 | |
| | 25.36 | 29.6 | 38.9 | 11900 | 35.5 | 46.2 | 11800 | 57 | 72 | 11500 | 114 | 130 | 10400 | 32900 | |
| | 28.00 | 26.8 | 35.9 | 12200 | 32.1 | 42.7 | 12100 | 52 | 67 | 11700 | 104 | 129 | 11300 | 30500 | |
| | 32.55 | 23.0 | 31.2 | 12300 | 27.6 | 37.0 | 12200 | 44.5 | 58 | 11800 | 89 | 112 | 11400 | 30500 | |
| | 33.23 | 22.6 | 24.0 | 9700 | 27.1 | 28.5 | 9570 | 43.6 | 44.7 | 9310 | 87 | 86 | 8950 | 24200 | |
| | 39.38 | 19.0 | 25.2 | 12000 | 22.9 | 29.9 | 11900 | 36.8 | 46.9 | 11600 | 74 | 90 | 11100 | 30500 | |
| | 46.73 | 16.0 | 17.4 | 9900 | 19.3 | 20.7 | 9750 | 31.0 | 32.4 | 9490 | 62 | 62 | 9120 | 24200 | |
| RE 1523 | 51.25 | 14.6 | 27.2 | 16400 | 17.6 | 31.7 | 16000 | 28.3 | 44.2 | 13800 | 57 | 72 | 11200 | 39000 | 17 (T) 15 (H) 12 (F) |
| | 60.50 | 12.4 | 23.2 | 16600 | 14.9 | 27.6 | 16400 | 24.0 | 43.2 | 16000 | 47.9 | 72 | 13300 | 39000 | |
| | 62.78 | 11.9 | 22.4 | 16600 | 14.3 | 26.6 | 16400 | 23.1 | 37.8 | 14500 | 46.2 | 61 | 11800 | 39000 | |
| | 74.12 | 10.1 | 19.2 | 16800 | 12.1 | 22.8 | 16600 | 19.6 | 35.7 | 16200 | 39.1 | 61 | 13900 | 39000 | |
| | 80.57 | 9.3 | 13.6 | 12900 | 11.2 | 16.2 | 12800 | 18.0 | 25.3 | 12500 | 36.0 | 49 | 12000 | 30500 | |
| | 93.01 | 8.1 | 14.0 | 15300 | 9.7 | 16.6 | 15200 | 15.6 | 26.0 | 14800 | 31.2 | 50 | 14200 | 38900 | |
| | 100.31 | 7.5 | 14.1 | 16700 | 9.0 | 16.8 | 16600 | 14.5 | 26.3 | 16100 | 28.9 | 48.1 | 14700 | 39000 | |
| | 109.04 | 6.9 | 10.2 | 13200 | 8.3 | 12.1 | 13000 | 13.3 | 19.0 | 12700 | 26.6 | 36.6 | 12200 | 30500 | |
| | 125.87 | 6.0 | 10.5 | 15600 | 7.2 | 12.5 | 15500 | 11.5 | 19.6 | 15000 | 23.0 | 37.6 | 14500 | 38900 | |
| | 146.33 | 5.1 | 7.6 | 13200 | 6.2 | 9.1 | 13100 | 9.9 | 14.2 | 12700 | 19.8 | 27.4 | 12200 | 32900 | |
| | 157.09 | 4.8 | 8.2 | 15100 | 5.7 | 9.7 | 15000 | 9.2 | 15.2 | 14600 | 18.5 | 29.2 | 14000 | 38900 | |
| | 182.62 | 4.1 | 6.2 | 13400 | 4.9 | 7.4 | 13200 | 7.9 | 11.6 | 12900 | 15.9 | 22.2 | 12400 | 32900 | |
| | 201.60 | 3.7 | 6.0 | 14400 | 4.5 | 7.1 | 14000 | 7.2 | 10.7 | 13100 | 14.4 | 20.5 | 12600 | 30500 | |
| | 234.36 | 3.2 | 5.3 | 14700 | 3.8 | 6.2 | 14300 | 6.2 | 9.3 | 13300 | 12.4 | 17.8 | 12700 | 30500 | |
| | 239.26 | 3.1 | 4.0 | 11400 | 3.8 | 4.7 | 11100 | 6.1 | 7.1 | 10400 | 12.1 | 13.7 | 10000 | 24200 | |
| 278.14 | 2.7 | 3.5 | 11600 | 3.2 | 4.1 | 11300 | 5.2 | 6.2 | 10500 | 10.4 | 11.9 | 10100 | 24200 | | |
| RE 1524 | 210.56 | 3.6 | 8.0 | 19400 | 4.3 | 9.4 | 18900 | 6.9 | 14.0 | 17600 | 13.8 | 26.3 | 16500 | 39000 | 14 (T) 12 (F) 9 (P) |
| | 218.49 | 3.4 | 7.8 | 19500 | 4.1 | 9.1 | 19000 | 6.6 | 13.6 | 17700 | 13.3 | 25.4 | 16500 | 39000 | |
| | 257.94 | 2.9 | 6.7 | 20000 | 3.5 | 7.9 | 19500 | 5.6 | 11.8 | 18100 | 11.2 | 21.7 | 16700 | 39000 | |
| | 280.40 | 2.7 | 4.7 | 15100 | 3.2 | 5.5 | 14700 | 5.2 | 8.2 | 13700 | 10.3 | 15.4 | 12900 | 30500 | |
| | 315.99 | 2.4 | 5.6 | 20400 | 2.8 | 6.6 | 20100 | 4.6 | 9.9 | 18700 | 9.2 | 17.9 | 16900 | 39000 | |
| | 349.06 | 2.1 | 5.1 | 20500 | 2.6 | 6.1 | 20300 | 4.2 | 9.1 | 19000 | 8.3 | 16.5 | 17100 | 39000 | |
| | 396.53 | 1.9 | 3.7 | 16700 | 2.3 | 4.3 | 16500 | 3.7 | 6.8 | 16100 | 7.3 | 13.1 | 15400 | 38900 | |
| | 452.05 | 1.7 | 4.1 | 21400 | 2.0 | 4.9 | 21100 | 3.2 | 7.3 | 19700 | 6.4 | 13.2 | 17800 | 39000 | |
| | 508.89 | 1.5 | 2.8 | 16500 | 1.8 | 3.3 | 16100 | 2.8 | 4.9 | 15000 | 5.7 | 8.9 | 13500 | 30500 | |
| | 578.69 | 1.3 | 2.8 | 18500 | 1.6 | 3.3 | 18300 | 2.5 | 5.2 | 17800 | 5.0 | 9.9 | 17100 | 39000 | |
| | 629.07 | 1.2 | 2.4 | 17100 | 1.4 | 2.8 | 16600 | 2.3 | 4.1 | 15500 | 4.6 | 7.4 | 13900 | 30500 | |
| | 722.20 | 1.0 | 2.3 | 18700 | 1.2 | 2.7 | 18500 | 2.0 | 4.2 | 18000 | 4.0 | 8.1 | 17300 | 39000 | |
| | 800.57 | 0.94 | 1.9 | 17700 | 1.1 | 2.2 | 17200 | 1.8 | 3.4 | 16000 | 3.6 | 6.1 | 14400 | 30500 | |
| | 906.29 | 0.83 | 1.8 | 18600 | 0.99 | 2.1 | 18100 | 1.6 | 3.1 | 16800 | 3.2 | 6.0 | 16200 | 38900 | |
| | 999.11 | 0.75 | 1.6 | 18300 | 0.90 | 1.9 | 17800 | 1.5 | 2.8 | 16600 | 2.9 | 5.0 | 14900 | 30500 | |
| | 1156.68 | 0.65 | 1.3 | 17300 | 0.78 | 1.5 | 17100 | 1.3 | 2.4 | 16700 | 2.5 | 4.4 | 15300 | 30500 | |
| | 1285.79 | 0.58 | 0.99 | 14700 | 0.70 | 1.2 | 14300 | 1.1 | 1.7 | 13300 | 2.3 | 3.1 | 12000 | 24200 | |
| | 1451.52 | 0.52 | 1.2 | 19400 | 0.62 | 1.4 | 18900 | 1.0 | 2.0 | 17500 | 2.0 | 3.7 | 15800 | 30500 | |
| | 1635.58 | 0.46 | 0.83 | 15700 | 0.55 | 0.97 | 15300 | 0.89 | 1.5 | 14300 | 1.8 | 2.8 | 13800 | 30500 | |
| 1722.68 | 0.44 | 0.77 | 15300 | 0.52 | 0.90 | 14900 | 0.84 | 1.4 | 13900 | 1.7 | 2.4 | 12500 | 24200 | | |
| 2041.20 | 0.37 | 0.69 | 16200 | 0.44 | 0.81 | 15800 | 0.71 | 1.2 | 14700 | 1.4 | 2.3 | 13900 | 30500 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|----------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 1522 | 12.56 | 60 | 91.7 | 13700 | 72 | 104 | 13000 | 115 | 145 | 11300 | 231 | 236 | 9150 | 39000 | 24 (T) 20 (H) 18 (F) |
| | 16.13 | 46.5 | 61.4 | 11800 | 56 | 73 | 11700 | 90 | 114 | 11400 | 180 | 193 | 9590 | 30500 | |
| | 19.09 | 39.3 | 53.9 | 12300 | 47.1 | 64 | 12100 | 76 | 100 | 11800 | 152 | 176 | 10400 | 31600 | |
| | 24.50 | 30.6 | 41.4 | 12100 | 36.7 | 49.2 | 12000 | 59 | 77 | 11600 | 118 | 144 | 10900 | 30500 | |
| | 29.08 | 25.8 | 27.7 | 9600 | 31.0 | 32.9 | 9500 | 49.9 | 52 | 9200 | 100 | 99 | 8880 | 24200 | |
| RA 1523 | 34.38 | 21.8 | 27.8 | 11100 | 26.2 | 31.6 | 10500 | 42.2 | 44.1 | 9100 | 84 | 72 | 7400 | 34100 | 15 (T) 13 (H) 11 (F) |
| | 41.03 | 18.3 | 27.8 | 13200 | 21.9 | 31.6 | 12500 | 35.3 | 44.1 | 10900 | 71 | 72 | 8830 | 39000 | |
| | 48.43 | 15.5 | 27.8 | 15600 | 18.6 | 31.6 | 14800 | 29.9 | 44.1 | 12800 | 60 | 72 | 10400 | 39000 | |
| | 58.91 | 12.7 | 20.6 | 14100 | 15.3 | 23.4 | 13300 | 24.9 | 32.6 | 11400 | 49.2 | 53.0 | 9380 | 39000 | |
| | 62.16 | 12.1 | 17.6 | 12700 | 14.5 | 21.0 | 12600 | 23.3 | 32.9 | 12300 | 46.7 | 63 | 11800 | 30500 | |
| | 70.66 | 10.6 | 15.4 | 12700 | 12.7 | 18.3 | 12500 | 20.5 | 28.7 | 12200 | 41.0 | 55 | 11700 | 24200 | |
| | 78.00 | 9.6 | 14.2 | 12900 | 11.5 | 16.9 | 12800 | 18.6 | 26.5 | 12400 | 37.2 | 51 | 12000 | 32900 | |
| | 89.25 | 8.4 | 12.5 | 13000 | 10.1 | 14.9 | 12900 | 16.2 | 23.4 | 12500 | 32.5 | 44.9 | 12000 | 30500 | |
| | 101.45 | 7.4 | 11.0 | 12900 | 8.9 | 13.0 | 12800 | 14.3 | 20.4 | 12500 | 28.6 | 39.3 | 12000 | 30500 | |
| | 112.00 | 6.7 | 10.1 | 13200 | 8.0 | 12.0 | 13000 | 12.9 | 18.9 | 12700 | 25.9 | 36.2 | 12200 | 32900 | |
| | 130.20 | 5.8 | 8.9 | 13500 | 6.9 | 10.4 | 13200 | 11.1 | 16.4 | 12800 | 22.3 | 31.5 | 12300 | 30500 | |
| | 154.52 | 4.9 | 5.9 | 10600 | 5.8 | 7.0 | 10400 | 9.4 | 10.9 | 10200 | 18.8 | 21.0 | 9770 | 30500 | |
| | 186.92 | 4.0 | 5.0 | 11000 | 4.8 | 5.9 | 10700 | 7.8 | 9.1 | 10300 | 15.5 | 17.6 | 9880 | 24200 | |
| RA 1524 | 164.00 | 4.6 | 7.5 | 13900 | 5.5 | 8.9 | 13700 | 8.8 | 13.1 | 12600 | 17.7 | 21.2 | 10200 | 24200 | 11 (T) 9 (H) 8 (F) |
| | 193.61 | 3.9 | 7.5 | 16400 | 4.6 | 8.9 | 16200 | 7.5 | 13.1 | 14800 | 15.0 | 21.2 | 12000 | 35500 | |
| | 200.91 | 3.7 | 7.5 | 17000 | 4.5 | 8.9 | 16800 | 7.2 | 13.1 | 15400 | 14.4 | 21.2 | 12500 | 39000 | |
| | 237.19 | 3.2 | 7.4 | 19800 | 3.8 | 8.6 | 19200 | 6.1 | 12.9 | 17900 | 12.2 | 21.2 | 14800 | 39000 | |
| | 248.47 | 3.0 | 5.3 | 14800 | 3.6 | 6.2 | 14400 | 5.8 | 9.2 | 13400 | 11.7 | 17.5 | 12800 | 39000 | |
| | 271.89 | 2.8 | 4.9 | 15200 | 3.3 | 5.8 | 15000 | 5.3 | 9.2 | 14600 | 10.7 | 17.6 | 14000 | 30500 | |
| | 297.65 | 2.5 | 4.9 | 16400 | 3.0 | 5.8 | 16200 | 4.9 | 9.1 | 15800 | 9.7 | 17.4 | 15200 | 39000 | |
| | 320.98 | 2.3 | 4.9 | 17900 | 2.8 | 5.8 | 17700 | 4.5 | 9.2 | 17200 | 9.0 | 17.6 | 16600 | 38900 | |
| | 348.92 | 2.1 | 4.0 | 15600 | 2.6 | 4.6 | 15200 | 4.2 | 6.9 | 14100 | 8.3 | 12.7 | 13000 | 39000 | |
| | 402.80 | 1.9 | 3.7 | 16700 | 2.2 | 4.3 | 16500 | 3.6 | 6.8 | 16100 | 7.2 | 13.1 | 15400 | 30500 | |
| | 444.05 | 1.7 | 3.2 | 16200 | 2.0 | 3.8 | 15800 | 3.3 | 5.6 | 14700 | 6.5 | 10.1 | 13200 | 38900 | |
| | 516.92 | 1.5 | 2.8 | 16600 | 1.7 | 3.3 | 16100 | 2.8 | 5.0 | 15000 | 5.6 | 8.9 | 13500 | 30500 | |
| | 600.92 | 1.2 | 2.5 | 17000 | 1.5 | 2.9 | 16500 | 2.4 | 4.4 | 15300 | 4.8 | 7.8 | 13800 | 30500 | |
| | 645.12 | 1.2 | 2.3 | 17100 | 1.4 | 2.7 | 16700 | 2.2 | 4.1 | 15500 | 4.5 | 7.4 | 14000 | 30500 | |
| | 749.95 | 1.0 | 2.1 | 17500 | 1.2 | 2.4 | 17100 | 1.9 | 3.6 | 15900 | 3.9 | 6.5 | 14300 | 30500 | |
| | 907.20 | 0.83 | 1.4 | 14400 | 0.99 | 1.7 | 14200 | 1.6 | 2.6 | 13800 | 3.2 | 5.0 | 13300 | 30500 | |
| | 1076.68 | 0.70 | 1.2 | 14300 | 0.84 | 1.4 | 13900 | 1.3 | 2.0 | 12900 | 2.7 | 3.7 | 11600 | 30500 | |

| | | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] | |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|----------------------------|
| ie | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | | |
| RE 2001 | | 3.83 | 196 | 272 | 12900 | 235 | 309 | 12200 | 378 | 431 | 10600 | — | — | — | 44100 | 44 (T) 36 (H) 28 (F) |
| | | 5.25 | 143 | 210 | 13700 | 171 | 239 | 13000 | 276 | 333 | 11200 | — | — | — | 40300 | |
| RE 2002 | L | 13.80 | 54 | 78 | 13000 | 65 | 89 | 12300 | 105 | 124 | 10700 | 210 | 201 | 8680 | 44000 | 25 (T) 21 (H) 16 (F) |
| | | 15.33 | 48.9 | 96 | 17700 | 59 | 109 | 16800 | 95 | 152 | 14600 | 189 | 246 | 11800 | 44100 | |
| | | 17.42 | 43.0 | 86 | 18100 | 52 | 98 | 17200 | 83 | 136 | 14900 | 166 | 222 | 12100 | 44100 | |
| | | 21.00 | 35.7 | 61 | 15600 | 42.9 | 73 | 15400 | 69 | 114 | 15000 | 138 | 210 | 13800 | 40300 | |
| | L | 22.31 | 33.6 | 58 | 15600 | 40.3 | 69 | 15500 | 65 | 108 | 15100 | 130 | 176 | 12300 | 40300 | |
| | L | 28.00 | 26.8 | 46.7 | 15800 | 32.1 | 55 | 15700 | 52 | 87 | 15300 | 104 | 146 | 12800 | 40300 | |
| | L | 32.55 | 23.0 | 38.9 | 15300 | 27.6 | 46.2 | 15200 | 44.5 | 72 | 14800 | 89 | 130 | 13300 | 40300 | |
| | L | 39.38 | 19.0 | 25.2 | 12000 | 22.9 | 29.9 | 11900 | 36.8 | 47 | 11600 | 74 | 90 | 11100 | 33200 | |
| RE 2003 | L | 48.02 | 15.6 | 27.9 | 15800 | 18.7 | 31.7 | 15000 | 30.2 | 44 | 13000 | 60 | 72 | 10500 | 44000 | 18 (T) 15 (H) 12 (F) |
| | | 55.20 | 13.6 | 35.1 | 22900 | 16.3 | 41.7 | 22700 | 26.3 | 63 | 21400 | 53 | 103 | 17400 | 44100 | |
| | | 65.17 | 11.5 | 30.0 | 23100 | 13.8 | 35.7 | 22900 | 22.3 | 56 | 22300 | 44.5 | 92 | 18200 | 44100 | |
| | | 74.05 | 10.1 | 23.5 | 20600 | 12.2 | 28.0 | 20400 | 19.6 | 43.8 | 19800 | 39.2 | 83 | 18700 | 44100 | |
| | | 81.78 | 9.2 | 24.3 | 23400 | 11.0 | 28.8 | 23200 | 17.7 | 45.2 | 22500 | 35.5 | 78 | 19500 | 44100 | |
| | | 92.93 | 8.1 | 19.0 | 20800 | 9.7 | 22.6 | 20600 | 15.6 | 35.4 | 20100 | 31.2 | 68 | 19300 | 44100 | |
| | | 101.42 | 7.4 | 14.2 | 17000 | 8.9 | 16.9 | 16900 | 14.3 | 26.5 | 16400 | 28.6 | 51 | 15800 | 40300 | |
| | | 112.00 | 6.7 | 13.0 | 17100 | 8.0 | 15.4 | 17000 | 12.9 | 24.1 | 16500 | 25.9 | 46.4 | 15900 | 40300 | |
| | L | 128.73 | 5.8 | 11.4 | 17300 | 7.0 | 13.5 | 17100 | 11.3 | 21.2 | 16600 | 22.5 | 40.7 | 16000 | 40300 | |
| | | 147.95 | 5.1 | 10.0 | 17400 | 6.1 | 11.8 | 17200 | 9.8 | 18.6 | 16800 | 19.6 | 35.7 | 16100 | 40300 | |
| | | 157.50 | 4.8 | 9.4 | 17500 | 5.7 | 11.2 | 17300 | 9.2 | 17.5 | 16800 | 18.4 | 33.7 | 16200 | 40300 | |
| | | 178.98 | 4.2 | 8.5 | 17900 | 5.0 | 9.9 | 17400 | 8.1 | 15.5 | 17000 | 16.2 | 29.8 | 16300 | 40300 | |
| | L | 201.60 | 3.7 | 7.6 | 18200 | 4.5 | 8.9 | 17700 | 7.2 | 13.9 | 17100 | 14.4 | 26.7 | 16400 | 40300 | |
| RE 2004 | | 192.10 | 3.9 | 11.1 | 24600 | 4.7 | 13.2 | 24300 | 7.5 | 20.7 | 23700 | 15.1 | 39.8 | 22800 | 44100 | 14 (T) 12 (H) 10 (F) |
| | | 226.78 | 3.3 | 9.5 | 24800 | 4.0 | 11.3 | 24600 | 6.4 | 17.7 | 23900 | 12.8 | 34.0 | 23000 | 44100 | |
| | | 257.70 | 2.9 | 7.5 | 22100 | 3.5 | 8.8 | 21900 | 5.6 | 13.9 | 21300 | 11.3 | 26.7 | 20500 | 44100 | |
| | | 284.59 | 2.6 | 7.7 | 25100 | 3.2 | 9.1 | 24900 | 5.1 | 14.3 | 24200 | 10.2 | 27.5 | 23300 | 44100 | |
| | | 315.70 | 2.4 | 6.2 | 22400 | 2.9 | 7.3 | 22100 | 4.6 | 11.5 | 21500 | 9.2 | 22.0 | 20700 | 44100 | |
| | | 348.63 | 2.2 | 6.3 | 25400 | 2.6 | 7.5 | 25200 | 4.2 | 4.7 | 24500 | 8.3 | 22.7 | 23500 | 44100 | |
| | | 396.17 | 1.9 | 5.0 | 22600 | 2.3 | 5.9 | 22400 | 3.7 | 9.2 | 21800 | 7.3 | 17.8 | 21000 | 44100 | |
| | L | 447.97 | 1.7 | 4.0 | 20500 | 2.0 | 4.6 | 20000 | 3.2 | 7.0 | 18600 | 6.5 | 12.9 | 17200 | 40100 | |
| | L | 500.07 | 1.5 | 3.6 | 20500 | 1.8 | 4.2 | 19900 | 2.9 | 6.4 | 19000 | 5.8 | 12.3 | 18300 | 40100 | |
| | L | 562.15 | 1.3 | 3.3 | 21200 | 1.6 | 3.8 | 20700 | 2.6 | 5.7 | 19200 | 5.2 | 10.4 | 17400 | 40100 | |
| | L | 629.07 | 1.2 | 2.8 | 20100 | 1.4 | 3.3 | 19900 | 2.3 | 5.2 | 19400 | 4.6 | 9.4 | 17600 | 40100 | |
| | L | 701.57 | 1.1 | 2.7 | 22000 | 1.3 | 3.2 | 21400 | 2.1 | 4.8 | 19900 | 4.1 | 8.6 | 17900 | 40100 | |
| | | 806.40 | 0.93 | 2.4 | 22400 | 1.1 | 2.8 | 21800 | 1.8 | 4.2 | 20300 | 3.6 | 7.6 | 18300 | 40300 | |
| | | 908.65 | 0.83 | 2.2 | 22800 | 0.99 | 2.6 | 22200 | 1.6 | 3.8 | 20700 | 3.2 | 6.9 | 18600 | 40300 | |
| | | 1032.56 | 0.73 | 2.0 | 23300 | 0.87 | 2.3 | 22700 | 1.4 | 3.4 | 21100 | 2.8 | 6.2 | 19000 | 40300 | |
| | | 1134.00 | 0.66 | 1.8 | 23600 | 0.79 | 2.1 | 23000 | 1.3 | 3.2 | 21400 | 2.6 | 5.7 | 19300 | 40300 | |
| | 1288.64 | 0.58 | 1.6 | 24100 | 0.70 | 1.9 | 23400 | 1.1 | 2.8 | 21800 | 2.3 | 5.1 | 19600 | 40300 | | |
| L | 1451.52 | 0.52 | 1.3 | 21700 | 0.62 | 1.5 | 21500 | 1.0 | 2.4 | 20900 | 2.0 | 4.6 | 20000 | 40100 | | |

| | | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] | |
|---------|---------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|----------------------------|
| ie | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | | |
| RA 2002 | | 11.77 | 64 | 107 | 15000 | 76 | 121 | 14200 | 123 | 169 | 12300 | 246 | 275 | 9970 | 44100 | 24 (T) 20 (H) 18 (F) |
| | | 16.13 | 46.5 | 80 | 15300 | 56 | 95 | 15200 | 90 | 149 | 14800 | 180 | 257 | 12800 | 40300 | |
| | | 17.89 | 41.9 | 54 | 11500 | 50 | 64 | 11400 | 81 | 100 | 11100 | 162 | 191 | 10500 | 29600 | |
| | | 24.50 | 30.6 | 54 | 15700 | 36.7 | 64 | 15600 | 59 | 100 | 15100 | 118 | 191 | 14400 | 40300 | |
| RA 2003 | L | 38.44 | 19.5 | 27.1 | 12400 | 23.4 | 31.6 | 11800 | 37.7 | 44.1 | 10200 | 75 | 72 | 8270 | 44000 | 15 (T) 13 (H) 11 (F) |
| | | 42.71 | 17.6 | 27.1 | 13800 | 21.1 | 31.6 | 13100 | 33.9 | 44.1 | 11300 | 68 | 72 | 9190 | 44100 | |
| | L | 45.38 | 16.5 | 27.8 | 14700 | 19.8 | 31.6 | 13900 | 31.9 | 44.1 | 12000 | 64 | 72 | 9770 | 44000 | |
| | L | 52.65 | 14.2 | 26.8 | 16400 | 17.1 | 31.6 | 16100 | 27.5 | 44.1 | 13900 | 55 | 72 | 11300 | 40300 | |
| | L | 55.20 | 13.6 | 20.6 | 13200 | 16.3 | 23.4 | 12500 | 26.3 | 32.6 | 10800 | 53 | 53 | 8790 | 38200 | |
| | L | 62.16 | 12.1 | 22.9 | 16600 | 14.5 | 27.3 | 16400 | 23.3 | 42.7 | 16000 | 46.7 | 72 | 13400 | 40300 | |
| | | 69.70 | 10.8 | 20.6 | 16600 | 12.9 | 23.4 | 15800 | 20.8 | 32.6 | 13700 | 41.6 | 53.0 | 11100 | 44100 | |
| | L | 78.00 | 9.6 | 18.5 | 16800 | 11.5 | 22.0 | 16600 | 18.6 | 34.5 | 16200 | 37.2 | 66 | 15500 | 40300 | |
| | L | 89.25 | 8.4 | 16.3 | 16900 | 10.1 | 19.4 | 16700 | 16.2 | 30.4 | 16300 | 32.5 | 53.0 | 14200 | 40300 | |
| | | 95.45 | 7.9 | 15.3 | 17000 | 9.4 | 18.2 | 16800 | 15.2 | 28.5 | 16400 | 30.4 | 53.0 | 15200 | 40300 | |
| | L | 112.00 | 6.7 | 13.2 | 17100 | 8.0 | 15.6 | 17000 | 12.9 | 24.5 | 16500 | 25.9 | 47.1 | 15900 | 40300 | |
| | L | 130.20 | 5.8 | 11.0 | 16600 | 6.9 | 13.0 | 16400 | 11.1 | 20.4 | 16000 | 22.3 | 39.3 | 15400 | 40300 | |
| L | 157.50 | 4.8 | 7.1 | 13000 | 5.7 | 8.4 | 12900 | 9.2 | 13.2 | 12500 | 18.4 | 25.4 | 12000 | 33200 | | |
| RA 2004 | | 153.77 | 4.9 | 13.9 | 24300 | 5.9 | 16.5 | 24000 | 9.4 | 25.9 | 23400 | 18.9 | 49.9 | 22500 | 44100 | 13 (T) 9 (H) 10 (F) |
| | | 181.54 | 4.1 | 11.9 | 24500 | 5.0 | 14.1 | 24200 | 8.0 | 22.2 | 23600 | 16.0 | 42.6 | 22700 | 44100 | |
| | | 206.29 | 3.6 | 9.3 | 21800 | 4.4 | 11.1 | 21600 | 7.0 | 17.4 | 21000 | 14.1 | 33.4 | 20200 | 44100 | |
| | | 220.80 | 3.4 | 9.9 | 24800 | 4.1 | 11.8 | 24500 | 6.6 | 18.4 | 23900 | 13.1 | 35.4 | 22900 | 44100 | |
| | L | 248.47 | 3.0 | 6.7 | 18800 | 3.6 | 7.8 | 18300 | 5.8 | 11.9 | 17300 | 11.7 | 21.2 | 15500 | 40300 | |
| | | 282.53 | 2.7 | 6.0 | 19100 | 3.2 | 5.8 | 15200 | 5.1 | 10.5 | 17400 | 10.3 | 20.2 | 16700 | 40300 | |
| | L | 311.81 | 2.4 | 5.5 | 19400 | 3.2 | 7.0 | 18600 | 4.7 | 9.6 | 17600 | 9.3 | 18.4 | 16800 | 40300 | |
| | L | 348.92 | 2.1 | 4.9 | 19500 | 2.6 | 5.8 | 19200 | 4.2 | 8.7 | 17900 | 8.3 | 16.6 | 16900 | 40300 | |
| | L | 411.92 | 1.8 | 4.3 | 20300 | 2.2 | 5.1 | 19700 | 3.5 | 7.6 | 18300 | 7.0 | 14.2 | 17100 | 40300 | |
| | | 448.00 | 1.7 | 4.0 | 20500 | 2.0 | 4.7 | 20000 | 3.2 | 7.1 | 18600 | 6.5 | 13.1 | 17200 | 40300 | |
| | | 498.58 | 1.5 | 3.7 | 20900 | 1.8 | 4.3 | 20300 | 2.9 | 6.5 | 18900 | 5.8 | 11.8 | 17300 | 40300 | |
| | L | 547.58 | 1.4 | 2.2 | 13400 | 1.6 | 2.6 | 13300 | 2.6 | 4.0 | 12900 | 5.3 | 7.7 | 12400 | 30900 | |
| | | 591.82 | 1.3 | 3.2 | 21400 | 1.5 | 3.7 | 20800 | 2.5 | 5.6 | 19400 | 4.9 | 10.1 | 17500 | 40300 | |
| | | 630.00 | 1.2 | 3.0 | 21600 | 1.4 | 3.5 | 21000 | 2.3 | 5.3 | 19600 | 4.6 | 9.5 | 17600 | 40300 | |
| | | 715.91 | 1.0 | 2.7 | 22000 | 1.3 | 3.2 | 21400 | 2.0 | 4.8 | 19900 | 4.1 | 8.6 | 18000 | 40300 | |
| L | 907.20 | 0.83 | 1.4 | 14400 | 1.0 | 1.7 | 14200 | 1.6 | 2.6 | 13800 | 3.2 | 5.0 | 13300 | 33200 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 2521 | 4.00 | 188 | 294 | 14600 | 225 | 334 | 13800 | 363 | 467 | 12000 | — | — | — | 63000 | 46 (H) 41 (F) |
| | 5.20 | 144 | 238 | 15300 | 173 | 270 | 14500 | 279 | 377 | 12600 | — | — | — | 50100 | |
| | 6.25 | 120 | 184 | 14300 | 144 | 218 | 14100 | 232 | 327 | 13100 | — | — | — | 39300 | |
| RE 2522 | 14.25 | 53 | 97 | 16800 | 63 | 111 | 15900 | 102 | 154 | 13800 | — | — | — | 47700 | 26 (H) 24 (F) |
| | 16.62 | 45.1 | 86 | 17300 | 54 | 98 | 16400 | 87 | 136 | 14200 | — | — | — | 47700 | |
| | 18.53 | 40.5 | 87 | 19600 | 48.6 | 104 | 19400 | 78 | 154 | 17900 | — | — | — | 50100 | |
| | 21.60 | 34.7 | 76 | 19700 | 41.7 | 90 | 19500 | 67 | 136 | 18400 | — | — | — | 50100 | |
| | 26.52 | 28.3 | 62 | 20000 | 33.9 | 74 | 19800 | 55 | 115 | 19200 | — | — | — | 50100 | |
| | 30.28 | 24.8 | 55 | 20100 | 29.7 | 65 | 19900 | 47.9 | 102 | 19400 | — | — | — | 50100 | |
| | 35.66 | 21.0 | 45.3 | 19600 | 25.2 | 54 | 19400 | 40.7 | 84 | 18800 | — | — | — | 50100 | |
| | 42.86 | 17.5 | 30.7 | 15900 | 21.0 | 36.5 | 15800 | 33.8 | 57 | 15300 | — | — | — | 39300 | |
| RE 2523 | 51.30 | 14.6 | 40.7 | 24600 | 17.5 | 46.2 | 23300 | 28.3 | 65 | 20200 | 57 | 105 | 16400 | 47700 | 19 (H) 17 (F) |
| | 59.82 | 12.5 | 36.0 | 25400 | 15.0 | 40.9 | 24000 | 24.2 | 57 | 20800 | 48.5 | 93 | 16900 | 47700 | |
| | 60.56 | 12.4 | 36.2 | 25900 | 14.9 | 41.2 | 24500 | 23.9 | 57 | 21300 | 47.9 | 93 | 17300 | 47700 | |
| | 70.62 | 10.6 | 31.8 | 26500 | 12.7 | 36.4 | 25300 | 20.5 | 51 | 21900 | 41.1 | 83 | 17800 | 47700 | |
| | 78.73 | 9.5 | 22.9 | 21300 | 11.4 | 27.2 | 21000 | 18.4 | 42.6 | 20500 | 36.8 | 82 | 19700 | 50100 | |
| | 86.70 | 8.7 | 21.8 | 22300 | 10.4 | 25.9 | 22100 | 16.7 | 40.6 | 21500 | 33.4 | 70 | 18500 | 47700 | |
| | 103.02 | 7.3 | 19.3 | 23500 | 8.7 | 22.9 | 23300 | 14.1 | 36.0 | 22600 | 28.2 | 63 | 19900 | 47700 | |
| | 112.71 | 6.7 | 16.3 | 21700 | 8.0 | 19.4 | 21500 | 12.9 | 30.4 | 20900 | 25.7 | 58 | 20100 | 50100 | |
| | 128.70 | 5.8 | 14.6 | 22100 | 7.0 | 17.1 | 21600 | 11.3 | 26.8 | 21100 | 22.5 | 52 | 20200 | 50100 | |
| | 141.44 | 5.3 | 13.4 | 22400 | 6.4 | 15.7 | 21800 | 10.3 | 24.5 | 21200 | 20.5 | 47.1 | 20400 | 50100 | |
| | 164.42 | 4.6 | 11.8 | 23000 | 5.5 | 13.8 | 22300 | 8.8 | 21.3 | 21400 | 17.6 | 40.9 | 20500 | 50100 | |
| | 187.75 | 4.0 | 10.6 | 23400 | 4.8 | 12.3 | 22800 | 7.7 | 18.8 | 21500 | 15.4 | 36.1 | 20700 | 50100 | |
| | 198.90 | 3.8 | 10.1 | 23600 | 4.5 | 11.8 | 23000 | 7.3 | 17.8 | 21600 | 14.6 | 34.2 | 20800 | 50100 | |
| | 221.07 | 3.4 | 8.3 | 21700 | 4.1 | 9.9 | 21500 | 6.6 | 15.5 | 20900 | 13.1 | 29.8 | 20100 | 50100 | |
| | 239.06 | 3.1 | 6.5 | 18500 | 3.8 | 7.6 | 18000 | 6.1 | 11.6 | 16900 | 12.1 | 22.3 | 16300 | 39300 | |
| | 267.43 | 2.8 | 7.0 | 21900 | 3.4 | 8.3 | 21700 | 5.4 | 12.9 | 21100 | 10.8 | 24.9 | 20300 | 50100 | |
| 321.43 | 2.3 | 5.1 | 19300 | 2.8 | 5.9 | 18800 | 4.5 | 8.9 | 17500 | 9.0 | 16.9 | 16500 | 39300 | | |
| RE 2524 | 210.76 | 3.6 | 13.0 | 31400 | 4.3 | 15.4 | 31100 | 6.9 | 23.7 | 29700 | 13.8 | 40.0 | 25100 | 47700 | 15 (H) 14 (F) |
| | 218.70 | 3.4 | 12.7 | 32100 | 4.1 | 15.1 | 31800 | 6.6 | 21.7 | 28200 | 13.3 | 35.2 | 22900 | 47700 | |
| | 245.74 | 3.1 | 10.1 | 28500 | 3.7 | 12.0 | 28200 | 5.9 | 18.7 | 27400 | 11.8 | 35.4 | 25900 | 47700 | |
| | 301.04 | 2.5 | 8.3 | 28800 | 3.0 | 9.9 | 28500 | 4.8 | 15.5 | 27700 | 9.6 | 29.8 | 26700 | 47700 | |
| | 308.38 | 2.4 | 8.1 | 28800 | 2.9 | 9.7 | 28500 | 4.7 | 15.1 | 27800 | 9.4 | 29.1 | 26700 | 47700 | |
| | 345.09 | 2.2 | 7.2 | 28600 | 2.6 | 8.5 | 28300 | 4.2 | 13.4 | 27500 | 8.4 | 25.7 | 26400 | 47700 | |
| | 407.40 | 1.8 | 6.4 | 29800 | 2.2 | 7.4 | 29000 | 3.6 | 11.6 | 28200 | 7.1 | 22.4 | 27100 | 47700 | |
| | 448.62 | 1.7 | 5.2 | 26700 | 2.0 | 6.0 | 26000 | 3.2 | 9.1 | 24200 | 6.5 | 16.3 | 21800 | 50100 | |
| | 500.19 | 1.5 | 4.3 | 24900 | 1.8 | 5.1 | 24400 | 2.9 | 8.0 | 23700 | 5.8 | 15.3 | 22800 | 47700 | |
| | 550.80 | 1.4 | 4.4 | 27600 | 1.6 | 5.1 | 26800 | 2.6 | 7.6 | 25000 | 5.3 | 13.7 | 22500 | 50100 | |
| | 638.03 | 1.2 | 4.1 | 30400 | 1.4 | 4.9 | 30000 | 2.3 | 7.6 | 28900 | 4.5 | 14.7 | 27800 | 47700 | |
| | 711.36 | 1.1 | 3.5 | 28700 | 1.3 | 4.1 | 27900 | 2.0 | 6.1 | 25900 | 4.1 | 11.0 | 23400 | 50100 | |
| | 800.41 | 0.94 | 3.0 | 27800 | 1.1 | 3.5 | 27100 | 1.8 | 5.5 | 26400 | 3.6 | 10.0 | 23800 | 50100 | |
| | 910.66 | 0.82 | 2.6 | 27300 | 0.99 | 3.0 | 26600 | 1.6 | 4.6 | 24700 | 3.2 | 8.7 | 23600 | 47700 | |
| | 1018.37 | 0.74 | 2.6 | 30300 | 0.88 | 3.0 | 29400 | 1.4 | 4.5 | 27400 | 2.8 | 8.1 | 24700 | 50100 | |
| | 1147.50 | 0.65 | 2.3 | 30800 | 0.78 | 2.7 | 30000 | 1.3 | 4.1 | 27900 | 2.5 | 7.4 | 25100 | 50100 | |
| | 1310.29 | 0.57 | 2.0 | 30000 | 0.69 | 2.3 | 29200 | 1.1 | 3.5 | 27100 | 2.2 | 6.6 | 25600 | 50100 | |
| | 1432.08 | 0.52 | 1.9 | 31900 | 0.63 | 2.3 | 31000 | 1.0 | 3.4 | 28800 | 2.0 | 6.1 | 26000 | 50100 | |
| | 1635.25 | 0.46 | 1.6 | 31000 | 0.55 | 1.9 | 30200 | 0.89 | 2.9 | 28100 | 1.8 | 5.4 | 26400 | 50100 | |
| 1925.49 | 0.39 | 1.2 | 26600 | 0.47 | 1.4 | 25900 | 0.75 | 2.1 | 24100 | 1.5 | 4.0 | 22700 | 50100 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 2522 | 12.29 | 61 | 107 | 15600 | 73 | 121 | 14800 | 118 | 169 | 12800 | 236 | 275 | 10400 | 48300 | 24 (H) 22 (F) |
| | 15.97 | 47.0 | 102 | 19400 | 56 | 121 | 19200 | 91 | 169 | 16700 | 182 | 275 | 13500 | 50100 | |
| | 19.20 | 39.1 | 66 | 15200 | 48.2 | 64 | 11900 | 76 | 124 | 14600 | 151 | 238 | 14100 | 39300 | |
| | 24.27 | 30.9 | 54 | 15600 | 37.1 | 64 | 15400 | 60 | 100 | 15000 | 120 | 191 | 14300 | 40200 | |
| | 29.17 | 25.7 | 44.8 | 15600 | 30.9 | 53 | 15400 | 49.7 | 83 | 15000 | 99 | 160 | 14400 | 39300 | |
| RA 2523 | 41.65 | 18.0 | 47.8 | 23100 | 21.6 | 54 | 21900 | 34.8 | 76 | 19000 | 70 | 123 | 15400 | 57300 | 18 (H) 17 (F) |
| | 44.01 | 17.0 | 42.3 | 21600 | 20.4 | 48.0 | 20500 | 32.9 | 67 | 17700 | 66 | 109 | 14400 | 51900 | |
| | 51.66 | 14.5 | 38.4 | 23000 | 17.4 | 43.6 | 21800 | 28.1 | 61 | 18900 | 56 | 99 | 15400 | 51900 | |
| | 57.00 | 13.2 | 38.4 | 25400 | 15.8 | 43.6 | 24100 | 25.4 | 61 | 20900 | 51 | 99 | 17000 | 57300 | |
| | 66.46 | 11.3 | 33.9 | 26200 | 13.5 | 38.5 | 24800 | 21.8 | 54 | 21500 | 43.6 | 87 | 17500 | 57300 | |
| | 68.09 | 11.0 | 23.5 | 18600 | 13.2 | 27.9 | 18400 | 21.3 | 43.7 | 17900 | 42.6 | 83 | 17000 | 57300 | |
| | 81.60 | 9.2 | 23.4 | 22200 | 11.0 | 27.8 | 22000 | 17.8 | 43.6 | 21400 | 35.5 | 74 | 18200 | 57300 | |
| | 88.52 | 8.5 | 20.8 | 21400 | 10.2 | 24.7 | 21200 | 16.4 | 38.7 | 20600 | 32.8 | 74 | 19800 | 50100 | |
| | 103.85 | 7.2 | 13.9 | 16700 | 8.7 | 16.5 | 16600 | 14.0 | 25.8 | 16100 | 27.9 | 49.7 | 15500 | 39300 | |
| | 109.71 | 6.8 | 12.8 | 16300 | 8.2 | 15.2 | 16100 | 13.2 | 23.8 | 15700 | 26.4 | 45.7 | 15100 | 41500 | |
| | 125.27 | 6.0 | 11.6 | 16900 | 7.2 | 13.8 | 16800 | 11.6 | 21.7 | 16300 | 23.1 | 41.6 | 15700 | 39300 | |
| | 142.63 | 5.3 | 12.8 | 21200 | 6.3 | 15.2 | 21000 | 10.2 | 23.8 | 20400 | 20.3 | 45.7 | 19600 | 50100 | |
| | 171.43 | 4.4 | 8.8 | 17500 | 5.3 | 10.3 | 17100 | 8.5 | 16.1 | 16600 | 16.9 | 31.0 | 16000 | 39300 | |
| RA 2524 | 129.51 | 5.8 | 17.8 | 26200 | 6.9 | 20.8 | 25400 | 11.2 | 31.4 | 23800 | 22.4 | 53 | 20200 | 51900 | 14 (H) 13 (F) |
| | 142.91 | 5.2 | 19.1 | 31000 | 6.3 | 22.3 | 30100 | 10.1 | 32.8 | 27500 | 20.3 | 53 | 22300 | 57300 | |
| | 152.89 | 4.9 | 15.5 | 26800 | 5.9 | 18.1 | 26100 | 9.5 | 27.1 | 24300 | 19.0 | 47.5 | 21300 | 51900 | |
| | 196.71 | 3.8 | 12.6 | 28100 | 4.6 | 15.0 | 27800 | 7.4 | 23.5 | 27100 | 14.7 | 42.0 | 24200 | 57300 | |
| | 219.54 | 3.4 | 11.4 | 28300 | 4.1 | 13.3 | 27600 | 6.6 | 19.9 | 25600 | 13.2 | 36.7 | 23600 | 51900 | |
| | 255.98 | 2.9 | 9.0 | 26000 | 3.5 | 10.6 | 25700 | 5.7 | 16.7 | 25000 | 11.3 | 31.7 | 23800 | 51900 | |
| | 282.46 | 2.7 | 9.0 | 28700 | 3.2 | 10.6 | 28400 | 5.1 | 16.7 | 27600 | 10.3 | 32.1 | 26600 | 57300 | |
| | 314.93 | 2.4 | 7.1 | 25300 | 2.9 | 8.3 | 24600 | 4.6 | 12.4 | 22900 | 9.2 | 23.1 | 21300 | 50100 | |
| | 354.46 | 2.1 | 7.3 | 29200 | 2.5 | 8.6 | 28800 | 4.1 | 13.5 | 28000 | 8.2 | 25.9 | 26900 | 57300 | |
| | 395.20 | 1.9 | 5.9 | 26200 | 2.3 | 6.8 | 25500 | 3.7 | 10.2 | 23700 | 7.3 | 18.6 | 21600 | 50100 | |
| | 449.91 | 1.7 | 5.2 | 26500 | 2.0 | 6.1 | 26000 | 3.2 | 9.2 | 24200 | 6.4 | 16.5 | 21800 | 50100 | |
| | 505.92 | 1.5 | 4.4 | 25000 | 1.8 | 5.1 | 24400 | 2.9 | 8.0 | 23800 | 5.7 | 15.4 | 22800 | 57300 | |
| | 565.76 | 1.3 | 4.3 | 27700 | 1.6 | 5.0 | 26900 | 2.6 | 7.6 | 25100 | 5.1 | 13.6 | 22600 | 50100 | |
| | 632.68 | 1.2 | 3.8 | 27000 | 1.4 | 4.5 | 26800 | 2.3 | 6.9 | 25500 | 4.6 | 12.4 | 22900 | 50100 | |
| | 698.82 | 1.1 | 2.8 | 21800 | 1.3 | 3.2 | 21200 | 2.1 | 5.0 | 20400 | 4.1 | 9.6 | 19700 | 57300 | |
| | 795.60 | 0.94 | 3.2 | 29200 | 1.1 | 3.8 | 28400 | 1.8 | 5.7 | 26400 | 3.6 | 10.2 | 23800 | 50100 | |
| | 884.30 | 0.85 | 2.4 | 23700 | 1.0 | 2.8 | 23300 | 1.6 | 4.4 | 22600 | 3.3 | 8.4 | 21700 | 50100 | |
| | 956.25 | 0.78 | 2.1 | 22800 | 0.94 | 2.5 | 22100 | 1.5 | 3.7 | 20600 | 3.0 | 6.6 | 18500 | 39300 | |
| | 1091.91 | 0.69 | 1.9 | 23200 | 0.82 | 2.2 | 22600 | 1.3 | 3.3 | 21000 | 2.7 | 5.9 | 18900 | 39300 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 3001 | 4.00 | 188 | 392 | 19500 | 225 | 446 | 18500 | 363 | 623 | 16000 | — | — | — | 78800 | 46 (H) |
| | 4.71 | 159 | 344 | 20100 | 191 | 390 | 19000 | 308 | 545 | 16500 | — | — | — | 71700 | 41 (F) |
| RE 3002 | 14.25 | 53 | 133 | 23000 | 63 | 152 | 21800 | 102 | 212 | 18900 | — | — | — | 78800 | 27 (H) 24 (F) |
| | 16.62 | 45.1 | 118 | 23700 | 54 | 134 | 22400 | 87 | 187 | 19400 | — | — | — | 78800 | |
| | 19.55 | 38.4 | 118 | 27900 | 46.0 | 134 | 26400 | 74 | 187 | 22900 | — | — | — | 71700 | |
| | 23.29 | 32.2 | 90 | 25300 | 38.6 | 102 | 24000 | 62 | 143 | 20800 | — | — | — | 69600 | |
| | 24.00 | 31.3 | 97 | 28200 | 37.5 | 113 | 27400 | 60 | 158 | 23800 | — | — | — | 71700 | |
| | 27.40 | 27.4 | 86 | 28400 | 32.8 | 102 | 28100 | 53 | 143 | 24500 | — | — | — | 71700 | |
| | 32.27 | 23.2 | 66 | 25600 | 27.9 | 78 | 25300 | 44.9 | 122 | 24700 | — | — | — | 70600 | |
| RE 3003 | 51.30 | 14.6 | 56 | 33800 | 17.5 | 63 | 32000 | 28.3 | 89 | 27700 | 57 | 144 | 22500 | 78800 | 19 (H) 18 (F) |
| | 60.56 | 12.4 | 49.7 | 35500 | 14.9 | 56 | 33600 | 23.9 | 79 | 29100 | 47.9 | 128 | 23700 | 78800 | |
| | 76.00 | 9.9 | 40.4 | 36200 | 11.8 | 48.0 | 35900 | 19.1 | 67 | 31200 | 38.2 | 109 | 25300 | 78800 | |
| | 88.62 | 8.5 | 35.0 | 36600 | 10.2 | 41.5 | 36200 | 16.4 | 59 | 32100 | 32.7 | 96 | 26100 | 78800 | |
| | 103.02 | 7.3 | 30.3 | 36900 | 8.7 | 36.0 | 36500 | 14.1 | 53 | 33600 | 28.2 | 87 | 27300 | 78800 | |
| | 108.80 | 6.9 | 25.4 | 32700 | 8.3 | 30.2 | 32300 | 13.3 | 47.4 | 31500 | 26.7 | 81.7 | 27100 | 78800 | |
| | 124.62 | 6.0 | 25.7 | 37800 | 7.2 | 30.1 | 36900 | 11.6 | 46.8 | 35600 | 23.3 | 76.0 | 28900 | 78800 | |
| | 144.42 | 5.2 | 16.5 | 28100 | 6.2 | 19.6 | 27800 | 10.0 | 30.7 | 27000 | 20.1 | 58.9 | 26000 | 69600 | |
| | 153.00 | 4.9 | 18.4 | 33300 | 5.9 | 21.9 | 33000 | 9.5 | 34.4 | 32100 | 19.0 | 64.4 | 30100 | 78800 | |
| | 180.00 | 4.2 | 15.3 | 32600 | 5.0 | 17.9 | 31700 | 8.1 | 27.7 | 30500 | 16.1 | 53.3 | 29300 | 71700 | |
| | 205.54 | 3.6 | 13.7 | 33200 | 4.4 | 16.0 | 32300 | 7.1 | 24.5 | 30700 | 14.1 | 47.0 | 29500 | 71700 | |
| 242.02 | 3.1 | 10.1 | 28700 | 3.7 | 11.9 | 28400 | 6.0 | 18.7 | 27700 | 12.0 | 36.0 | 26600 | 70600 | | |
| RE 3004 | 178.52 | 4.2 | 19.4 | 39900 | 5.0 | 22.7 | 38800 | 8.1 | 34.5 | 36700 | 16.2 | 61.6 | 32700 | 78800 | 15 (H) 14 (F) |
| | 208.16 | 3.6 | 17.0 | 40800 | 4.3 | 19.9 | 39700 | 7.0 | 29.8 | 37000 | 13.9 | 54.4 | 33700 | 78800 | |
| | 218.70 | 3.4 | 16.3 | 41100 | 4.1 | 19.1 | 40000 | 6.6 | 28.6 | 37200 | 13.3 | 53.4 | 34800 | 78800 | |
| | 255.00 | 2.9 | 14.1 | 41300 | 3.5 | 16.7 | 40900 | 5.7 | 25.1 | 38100 | 11.4 | 47.2 | 35800 | 78800 | |
| | 289.11 | 2.6 | 10.5 | 35000 | 3.1 | 12.3 | 34000 | 5.0 | 18.4 | 31700 | 10.0 | 35.0 | 30100 | 71700 | |
| | 324.00 | 2.3 | 11.7 | 43700 | 2.8 | 13.7 | 42500 | 4.5 | 20.5 | 39500 | 9.0 | 37.8 | 36400 | 78800 | |
| | 349.40 | 2.1 | 11.0 | 44200 | 2.6 | 12.8 | 43000 | 4.1 | 19.2 | 40000 | 8.3 | 35.2 | 36600 | 78800 | |
| | 381.18 | 2.0 | 8.3 | 36500 | 2.4 | 9.7 | 35500 | 3.8 | 14.5 | 33000 | 7.6 | 27.0 | 30600 | 71700 | |
| | 439.17 | 1.7 | 8.6 | 43600 | 2.0 | 10.1 | 42500 | 3.3 | 15.7 | 41000 | 6.6 | 28.5 | 37300 | 78800 | |
| | 508.43 | 1.5 | 7.6 | 44600 | 1.8 | 8.9 | 43400 | 2.9 | 13.7 | 41400 | 5.7 | 25.2 | 38100 | 78800 | |
| | 569.18 | 1.3 | 5.4 | 35400 | 1.6 | 6.4 | 35000 | 2.5 | 10.1 | 34100 | 5.1 | 18.6 | 31600 | 71700 | |
| | 636.12 | 1.2 | 6.4 | 46600 | 1.4 | 7.6 | 46100 | 2.3 | 11.6 | 43800 | 4.6 | 20.8 | 39400 | 78800 | |
| | 699.20 | 1.1 | 5.0 | 40000 | 1.3 | 5.8 | 38900 | 2.1 | 8.7 | 36200 | 4.1 | 15.7 | 32600 | 71700 | |
| | 783.36 | 0.96 | 4.3 | 38600 | 1.1 | 5.0 | 37500 | 1.9 | 7.6 | 35200 | 3.7 | 14.5 | 33900 | 78800 | |
| | 897.23 | 0.84 | 4.1 | 42600 | 1.0 | 4.9 | 42100 | 1.6 | 7.7 | 41000 | 3.2 | 14.8 | 39400 | 78800 | |
| | 1007.92 | 0.74 | 2.9 | 33400 | 0.89 | 3.4 | 32500 | 1.4 | 5.0 | 30200 | 2.9 | 9.7 | 29000 | 69600 | |
| | 1101.60 | 0.68 | 3.2 | 40600 | 0.82 | 3.7 | 39500 | 1.3 | 5.6 | 36800 | 2.6 | 10.5 | 34500 | 78800 | |
| | 1257.88 | 0.60 | 2.4 | 34500 | 0.72 | 2.8 | 33600 | 1.2 | 4.2 | 31200 | 2.3 | 7.9 | 29400 | 69600 | |
| | 1396.25 | 0.54 | 2.1 | 33700 | 0.64 | 2.4 | 32800 | 1.0 | 3.7 | 30600 | 2.1 | 7.1 | 29400 | 70600 | |
| 1742.52 | 0.43 | 1.7 | 34800 | 0.52 | 2.0 | 33900 | 0.83 | 3.0 | 31500 | 1.7 | 5.7 | 29800 | 70600 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|---------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 3002 | 12.29 | 61 | 107 | 15600 | 73 | 121 | 14800 | 118 | 169 | 12800 | 236 | 275 | 10400 | 48300 | 24 (H) 22 (F) |
| | 14.45 | 52 | 107 | 18400 | 62 | 121 | 17400 | 100 | 169 | 15100 | 201 | 275 | 12200 | 56900 | |
| | 18.67 | 40.2 | 54 | 12000 | 48.2 | 64 | 11900 | 78 | 100 | 11500 | 155 | 191 | 11000 | 30900 | |
| | 21.96 | 34.2 | 54 | 14100 | 41.0 | 64 | 14000 | 66 | 100 | 13600 | 132 | 191 | 12900 | 36400 | |
| RA 3003 | 41.65 | 18.0 | 66 | 31700 | 21.6 | 74 | 30000 | 34.8 | 104 | 26000 | 70 | 169 | 21100 | 78800 | 15 (H) 17 (F) |
| | 48.57 | 15.4 | 58 | 32700 | 18.5 | 66 | 31000 | 29.9 | 92 | 26800 | 60 | 149 | 21800 | 78800 | |
| | 57.00 | 13.2 | 52.6 | 34900 | 15.8 | 60 | 33000 | 25.4 | 84 | 28600 | 51 | 136 | 23200 | 78800 | |
| | 66.46 | 11.3 | 46.5 | 35900 | 13.5 | 53 | 34000 | 21.8 | 74 | 29500 | 43.6 | 120 | 23900 | 78800 | |
| | 70.15 | 10.7 | 36.8 | 30000 | 12.8 | 43.7 | 29700 | 20.7 | 68 | 28900 | 41.3 | 126 | 26700 | 71700 | |
| | 78.19 | 9.6 | 33.2 | 30200 | 11.5 | 39.4 | 29900 | 18.5 | 62 | 29100 | 37.1 | 119 | 27900 | 71700 | |
| | 93.18 | 8.0 | 25.3 | 27400 | 9.7 | 30.0 | 27100 | 15.6 | 47.1 | 26400 | 31.1 | 90 | 25300 | 69600 | |
| | 109.62 | 6.8 | 24.1 | 30800 | 8.2 | 28.7 | 30400 | 13.2 | 45.0 | 29600 | 26.5 | 86 | 28500 | 71700 | |
| | 129.08 | 5.8 | 18.5 | 27700 | 7.0 | 21.9 | 27400 | 11.2 | 34.4 | 26700 | 22.5 | 66 | 25700 | 70600 | |
| RA 3004 | 142.91 | 5.2 | 23.2 | 38600 | 6.3 | 27.8 | 37500 | 10.1 | 43.2 | 36200 | 20.3 | 73 | 30600 | 78800 | 14 (H) 13 (F) |
| | 166.63 | 4.5 | 20.4 | 39500 | 5.4 | 24.4 | 38400 | 8.7 | 37.4 | 36500 | 17.4 | 65 | 31500 | 78800 | |
| | 196.71 | 3.8 | 17.7 | 40500 | 4.6 | 21.2 | 39400 | 7.4 | 32.0 | 36900 | 14.7 | 58 | 33200 | 78800 | |
| | 231.43 | 3.2 | 12.6 | 33800 | 3.9 | 15.1 | 32900 | 6.3 | 22.8 | 30900 | 12.5 | 43.8 | 29700 | 71700 | |
| | 246.86 | 3.0 | 14.4 | 41200 | 3.7 | 17.5 | 40700 | 5.9 | 26.2 | 37900 | 11.7 | 49.1 | 35500 | 71700 | |
| | 282.46 | 2.7 | 12.7 | 41600 | 3.2 | 15.4 | 41100 | 5.1 | 23.4 | 38700 | 10.3 | 43.7 | 36200 | 78800 | |
| | 304.00 | 2.5 | 12.2 | 43200 | 3.0 | 14.7 | 42100 | 4.8 | 22.0 | 39100 | 9.5 | 40.8 | 36300 | 78800 | |
| | 347.14 | 2.2 | 10.0 | 40300 | 2.6 | 12.2 | 39900 | 4.2 | 19.1 | 38800 | 8.4 | 36.0 | 36600 | 78800 | |
| | 407.16 | 1.8 | 7.3 | 34700 | 2.2 | 8.9 | 34300 | 3.6 | 14.0 | 33300 | 7.1 | 19.7 | 23500 | 71700 | |
| | 435.20 | 1.7 | 7.0 | 35400 | 2.1 | 8.5 | 35000 | 3.3 | 13.4 | 34100 | 6.7 | 25.7 | 32700 | 78800 | |
| | 502.94 | 1.5 | 6.5 | 38000 | 1.8 | 7.8 | 37000 | 2.9 | 11.7 | 34400 | 5.8 | 21.1 | 31100 | 71700 | |
| | 572.57 | 1.3 | 5.3 | 35400 | 1.6 | 6.5 | 35000 | 2.5 | 10.2 | 34100 | 5.1 | 18.8 | 31600 | 71700 | |
| | 612.00 | 1.2 | 5.2 | 37200 | 1.5 | 6.3 | 36200 | 2.4 | 9.7 | 34700 | 4.7 | 18.6 | 33400 | 78800 | |
| | 720.00 | 1.0 | 4.8 | 40100 | 1.3 | 5.7 | 39100 | 2.0 | 8.6 | 36300 | 4.0 | 15.5 | 32700 | 71700 | |
| | 800.27 | 0.94 | 3.3 | 31000 | 1.1 | 4.0 | 30400 | 1.8 | 6.3 | 29600 | 3.6 | 12.1 | 28500 | 70600 | |
| | 968.07 | 0.77 | 2.8 | 31900 | 0.93 | 3.4 | 31000 | 1.5 | 5.3 | 29900 | 3.0 | 10.1 | 28800 | 70600 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|---------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 3511 | 3.84 | 195 | 451 | 21500 | 234 | 512 | 20300 | 378 | 715 | 17600 | — | — | — | 96500 | 53 (H) 54 (F) |
| | 4.74 | 158 | 379 | 22300 | 190 | 431 | 21100 | 306 | 602 | 18300 | — | — | — | 79800 | |
| | 5.44 | 138 | 340 | 22900 | 166 | 386 | 21700 | 267 | 539 | 18800 | — | — | — | 64100 | |
| | 6.46 | 116 | 253 | 20300 | 139 | 301 | 20100 | 224 | 467 | 19400 | — | — | — | 56000 | |
| RE 3512 | 13.68 | 55 | 133 | 22100 | 66 | 152 | 20900 | 106 | 212 | 18100 | — | — | — | 96500 | 31 (H) 31 (F) |
| | 16.88 | 44.4 | 133 | 27200 | 53 | 152 | 25800 | 86 | 212 | 22400 | — | — | — | 79800 | |
| | 19.68 | 38.1 | 118 | 28100 | 45.7 | 134 | 26600 | 74 | 187 | 23000 | — | — | — | 79800 | |
| | 22.59 | 33.2 | 92 | 25300 | 39.8 | 110 | 25000 | 64 | 172 | 24300 | — | — | — | 64100 | |
| | 24.16 | 31.0 | 100 | 29200 | 37.3 | 113 | 27600 | 60 | 158 | 23900 | — | — | — | 79800 | |
| | 27.73 | 27.0 | 76 | 25600 | 32.5 | 90 | 25300 | 52 | 142 | 24600 | — | — | — | 64100 | |
| | 31.67 | 23.7 | 67 | 25800 | 28.4 | 80 | 25500 | 45.8 | 125 | 24800 | — | — | — | 64100 | |
| | 37.29 | 20.1 | 58 | 26000 | 24.1 | 68 | 25700 | 38.9 | 107 | 25000 | — | — | — | 64100 | |
| | 44.31 | 16.9 | 42 | 22700 | 20.3 | 50 | 22400 | 32.7 | 79 | 21800 | — | — | — | 56000 | |
| RE 3513 | 49.25 | 15.2 | 56 | 32400 | 18.3 | 63 | 30700 | 29.4 | 89 | 26600 | 59 | 144 | 21600 | 96500 | 22 (H) 22 (F) |
| | 58.14 | 12.9 | 49.7 | 34100 | 15.5 | 56 | 32300 | 24.9 | 79 | 28000 | 49.9 | 128 | 22700 | 96500 | |
| | 60.75 | 12.3 | 46.9 | 33600 | 14.8 | 56 | 33300 | 23.9 | 87 | 32400 | 47.7 | 144 | 26700 | 79800 | |
| | 72.96 | 10.3 | 42.4 | 36500 | 12.3 | 48.1 | 34500 | 19.9 | 67 | 29900 | 39.7 | 109 | 24300 | 96500 | |
| | 82.33 | 9.1 | 28.0 | 27200 | 10.9 | 33.3 | 26900 | 17.6 | 52 | 26200 | 35.2 | 100 | 25200 | 64100 | |
| | 90.00 | 8.3 | 32.4 | 34400 | 10.0 | 38.4 | 34000 | 16.1 | 60 | 33100 | 32.2 | 109 | 30000 | 79800 | |
| | 98.89 | 7.6 | 32.3 | 37700 | 9.1 | 38.3 | 37200 | 14.7 | 53 | 32300 | 29.3 | 87 | 26200 | 92900 | |
| | 104.94 | 7.1 | 28.1 | 34800 | 8.6 | 33.3 | 34300 | 13.8 | 52 | 33400 | 27.6 | 96 | 30900 | 79800 | |
| | 121.99 | 6.1 | 24.7 | 35600 | 7.4 | 28.9 | 34600 | 11.9 | 45.2 | 33700 | 23.8 | 87 | 32300 | 79800 | |
| | 149.78 | 5.0 | 20.8 | 36700 | 6.0 | 24.3 | 35700 | 9.7 | 37.3 | 34100 | 19.4 | 72 | 32800 | 79800 | |
| | 168.88 | 4.4 | 14.7 | 29300 | 5.3 | 17.1 | 28500 | 8.6 | 26.5 | 27300 | 17.2 | 51 | 26200 | 64100 | |
| | 181.18 | 4.1 | 17.7 | 37800 | 5.0 | 20.6 | 36800 | 8.0 | 31.2 | 34500 | 16.0 | 60 | 33100 | 79800 | |
| | 207.98 | 3.6 | 12.3 | 30200 | 4.3 | 14.4 | 29400 | 7.0 | 21.8 | 27600 | 13.9 | 41.8 | 26600 | 64100 | |
| | 237.49 | 3.2 | 11.0 | 30800 | 3.8 | 12.8 | 30000 | 6.1 | 19.2 | 27900 | 12.2 | 36.9 | 26800 | 64100 | |
| | 247.15 | 3.0 | 9.0 | 26300 | 3.6 | 10.5 | 25500 | 5.9 | 16.0 | 24100 | 11.7 | 30.7 | 23200 | 56000 | |
| | 279.64 | 2.7 | 9.6 | 31600 | 3.2 | 11.2 | 30700 | 5.2 | 16.8 | 28600 | 10.4 | 31.6 | 27000 | 64100 | |
| 332.31 | 2.3 | 7.0 | 27500 | 2.7 | 8.2 | 26700 | 4.4 | 12.3 | 24900 | 8.7 | 23.2 | 23600 | 56000 | | |
| RE 3514 | 202.33 | 3.7 | 19.1 | 44500 | 4.4 | 22.7 | 44000 | 7.2 | 33.8 | 40700 | 14.3 | 54.8 | 33000 | 96500 | 17 (H) 18 (F) |
| | 209.95 | 3.6 | 18.5 | 44600 | 4.3 | 21.9 | 44100 | 6.9 | 32.9 | 41100 | 13.8 | 53.4 | 33400 | 96500 | |
| | 247.86 | 3.0 | 15.8 | 45000 | 3.6 | 18.7 | 44600 | 5.9 | 29.3 | 43200 | 11.7 | 47.6 | 35100 | 96500 | |
| | 291.01 | 2.6 | 12.1 | 40600 | 3.1 | 14.2 | 39500 | 5.0 | 21.2 | 36800 | 10.0 | 39.3 | 34000 | 79800 | |
| | 311.04 | 2.4 | 12.9 | 46300 | 2.9 | 15.1 | 45100 | 4.7 | 23.7 | 43900 | 9.3 | 40.6 | 37600 | 96500 | |
| | 350.48 | 2.1 | 10.4 | 41800 | 2.6 | 12.1 | 40600 | 4.1 | 18.1 | 37800 | 8.3 | 33.0 | 34400 | 79800 | |
| | 408.66 | 1.8 | 9.1 | 42800 | 2.2 | 10.6 | 41600 | 3.5 | 15.9 | 38700 | 7.1 | 28.7 | 34800 | 79800 | |
| | 447.37 | 1.7 | 8.4 | 43300 | 2.0 | 9.8 | 42200 | 3.2 | 14.7 | 39200 | 6.5 | 26.5 | 35300 | 79800 | |
| | 501.74 | 1.5 | 7.2 | 41800 | 1.8 | 8.6 | 41400 | 2.9 | 13.4 | 39900 | 5.8 | 24.1 | 35900 | 79800 | |
| | 570.55 | 1.3 | 6.7 | 43900 | 1.6 | 7.8 | 42700 | 2.5 | 11.8 | 40100 | 5.1 | 22.7 | 38500 | 92900 | |
| | 648.00 | 1.2 | 6.1 | 45800 | 1.4 | 7.2 | 44600 | 2.2 | 10.8 | 41500 | 4.5 | 19.4 | 37400 | 79800 | |
| | 703.80 | 1.1 | 5.7 | 46400 | 1.3 | 6.7 | 45200 | 2.1 | 10.0 | 42000 | 4.1 | 18.1 | 37800 | 79800 | |
| | 807.90 | 0.93 | 4.0 | 37100 | 1.1 | 4.7 | 36100 | 1.8 | 7.0 | 33600 | 3.6 | 12.6 | 30200 | 64100 | |
| | 878.34 | 0.85 | 4.7 | 48000 | 1.0 | 5.5 | 46700 | 1.7 | 8.3 | 43400 | 3.3 | 15.0 | 39100 | 79800 | |
| | 1045.29 | 0.72 | 3.9 | 46500 | 0.86 | 4.5 | 45300 | 1.4 | 6.8 | 42100 | 2.8 | 12.9 | 40200 | 79800 | |
| | 1140.94 | 0.66 | 2.8 | 36900 | 0.79 | 3.3 | 35900 | 1.3 | 5.1 | 34600 | 2.5 | 9.4 | 31900 | 64100 | |
| | 1304.53 | 0.57 | 3.2 | 48100 | 0.69 | 3.7 | 46800 | 1.1 | 5.6 | 43600 | 2.2 | 10.5 | 40900 | 79800 | |
| | 1413.55 | 0.53 | 2.5 | 40400 | 0.64 | 2.9 | 39300 | 1.0 | 4.3 | 36500 | 2.1 | 7.8 | 32900 | 64100 | |
| | 1613.32 | 0.46 | 2.1 | 38900 | 0.56 | 2.4 | 37900 | 0.90 | 3.7 | 35300 | 1.8 | 7.0 | 33600 | 64100 | |
| | 1779.51 | 0.42 | 1.7 | 35400 | 0.51 | 2.0 | 34400 | 0.81 | 3.0 | 32000 | 1.6 | 5.4 | 28900 | 56000 | |
| 2013.43 | 0.37 | 0.2 | 40300 | 0.45 | 2.0 | 39200 | 0.72 | 3.0 | 36400 | 1.4 | 5.7 | 34400 | 64100 | | |
| 2392.62 | 0.31 | 0.1 | 37000 | 0.38 | 1.6 | 36000 | 0.61 | 2.4 | 33500 | 1.2 | 4.2 | 30200 | 56000 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 3512 | 12.48 | 60 | 206 | 30600 | 72 | 234 | 29000 | 116 | 326 | 25100 | 232 | 530 | 20400 | 88500 | 30 (H) 31 (F) |
| | 15.39 | 48.7 | 169 | 31100 | 58 | 197 | 30100 | 94 | 275 | 26100 | 188 | 446 | 21200 | 79800 | |
| | 17.67 | 42.4 | 118 | 24900 | 51 | 141 | 24700 | 82 | 220 | 24000 | 164 | 399 | 21800 | 64100 | |
| | 21.00 | 35.7 | 87 | 21700 | 42.9 | 103 | 21500 | 69 | 162 | 20900 | 138 | 311 | 20100 | 56000 | |
| RA 3513 | 39.99 | 18.8 | 66 | 30500 | 22.5 | 74 | 28800 | 36.3 | 104 | 25000 | 73 | 169 | 20300 | 96500 | 20 (H) 20 (F) |
| | 46.63 | 16.1 | 58 | 31400 | 19.3 | 66 | 29700 | 31.1 | 92 | 25800 | 62 | 149 | 20900 | 92900 | |
| | 49.33 | 15.2 | 58 | 33200 | 18.2 | 69 | 32900 | 29.4 | 104 | 30800 | 59 | 169 | 25000 | 79800 | |
| | 57.51 | 13.0 | 50 | 33500 | 15.6 | 60 | 33200 | 25.2 | 92 | 31800 | 50 | 149 | 25800 | 79800 | |
| | 63.80 | 11.8 | 46.5 | 34500 | 14.1 | 53 | 32600 | 22.7 | 74 | 28300 | 45.5 | 120 | 23000 | 92900 | |
| | 70.62 | 10.6 | 41.3 | 33900 | 12.7 | 49.1 | 33600 | 20.5 | 77 | 32600 | 41.1 | 126 | 26800 | 79800 | |
| | 78.70 | 9.5 | 37.3 | 34100 | 11.4 | 44.3 | 33800 | 18.4 | 69 | 32900 | 36.8 | 120 | 28400 | 79800 | |
| | 90.35 | 8.3 | 26.1 | 27400 | 10.0 | 30.9 | 27100 | 16.0 | 48.5 | 26300 | 32.1 | 93 | 25300 | 64100 | |
| | 96.63 | 7.8 | 30.7 | 34500 | 9.3 | 36.5 | 34200 | 15.0 | 57 | 33200 | 30.0 | 101 | 29500 | 79800 | |
| | 110.34 | 6.8 | 25.3 | 32400 | 8.2 | 30.0 | 32100 | 13.1 | 47.1 | 31200 | 26.3 | 90 | 30000 | 79800 | |
| | 126.66 | 5.9 | 19.0 | 28000 | 7.1 | 22.5 | 27600 | 11.4 | 35.3 | 26900 | 22.9 | 68 | 25800 | 64100 | |
| | 131.82 | 5.7 | 15.8 | 24100 | 6.8 | 18.7 | 23900 | 11.0 | 29.3 | 23200 | 22.0 | 56 | 22300 | 56000 | |
| | 149.14 | 5.0 | 16.6 | 28700 | 6.0 | 19.4 | 28000 | 9.7 | 30.2 | 27100 | 19.4 | 58 | 26100 | 64100 | |
| | 177.23 | 4.2 | 12.1 | 25000 | 5.1 | 14.2 | 24300 | 8.2 | 22.2 | 23600 | 16.4 | 43 | 22700 | 56000 | |
| RA 3514 | 137.19 | 5.5 | 28.0 | 43500 | 6.6 | 32.2 | 41700 | 10.6 | 45.0 | 36200 | 21.1 | 73 | 29400 | 96500 | 16 (H) 16 (F) |
| | 161.96 | 4.6 | 23.9 | 43900 | 5.6 | 28.4 | 43500 | 9.0 | 40.1 | 38000 | 17.9 | 65 | 30900 | 96500 | |
| | 196.99 | 3.8 | 19.9 | 44400 | 4.6 | 23.6 | 44000 | 7.4 | 33.4 | 38600 | 14.7 | 52.3 | 30100 | 96500 | |
| | 229.69 | 3.3 | 15.2 | 39500 | 3.9 | 18.0 | 39100 | 6.3 | 28.3 | 38100 | 12.6 | 50.1 | 33800 | 92900 | |
| | 250.71 | 3.0 | 14.0 | 39700 | 3.6 | 16.3 | 38600 | 5.8 | 24.5 | 35900 | 11.6 | 45.9 | 33700 | 79800 | |
| | 283.34 | 2.6 | 12.6 | 40400 | 3.2 | 14.7 | 39300 | 5.1 | 22.0 | 36600 | 10.2 | 40.9 | 34000 | 79800 | |
| | 317.56 | 2.4 | 9.0 | 32200 | 2.8 | 10.5 | 31300 | 4.6 | 15.7 | 29200 | 9.1 | 29.2 | 27200 | 56000 | |
| | 358.92 | 2.1 | 10.1 | 41000 | 2.5 | 12.0 | 40600 | 4.0 | 18.0 | 37900 | 8.1 | 32.7 | 34400 | 79800 | |
| | 395.58 | 1.9 | 9.3 | 41500 | 2.3 | 10.8 | 40400 | 3.7 | 16.9 | 39300 | 7.3 | 32.6 | 37700 | 92900 | |
| | 445.50 | 1.7 | 5.7 | 28700 | 2.0 | 6.6 | 27900 | 3.3 | 10.0 | 26000 | 6.5 | 18.3 | 23900 | 56000 | |
| | 504.73 | 1.5 | 7.3 | 41800 | 1.8 | 8.7 | 41400 | 2.9 | 13.5 | 40000 | 5.7 | 24.3 | 36000 | 79800 | |
| | 561.00 | 1.3 | 4.8 | 30300 | 1.6 | 5.7 | 30000 | 2.6 | 8.9 | 29200 | 5.2 | 17.1 | 28100 | 56000 | |
| | 633.86 | 1.2 | 4.8 | 34800 | 1.4 | 5.8 | 34400 | 2.3 | 8.7 | 32400 | 4.6 | 15.7 | 29200 | 64100 | |
| | 724.74 | 1.0 | 5.4 | 44000 | 1.2 | 6.3 | 42800 | 2.0 | 9.7 | 41100 | 4.0 | 17.9 | 38000 | 79800 | |
| | 795.43 | 0.94 | 3.9 | 35200 | 1.1 | 4.6 | 34900 | 1.8 | 7.2 | 33500 | 3.6 | 12.9 | 30200 | 64100 | |
| | 924.69 | 0.81 | 3.4 | 35800 | 1.0 | 4.0 | 35200 | 1.6 | 6.3 | 34200 | 3.1 | 11.4 | 30900 | 64100 | |
| | 988.62 | 0.76 | 2.9 | 32400 | 0.91 | 3.4 | 31500 | 1.5 | 5.1 | 29300 | 2.9 | 9.1 | 26400 | 56000 | |
| | 1118.57 | 0.67 | 2.9 | 36800 | 0.80 | 3.4 | 35800 | 1.3 | 5.3 | 34600 | 2.6 | 9.7 | 31800 | 64100 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RE 4801 | 3.84 | 195 | 601 | 28700 | 234 | 683 | 27100 | 378 | 953 | 23500 | — | — | — | 111000 | 53 (H) |
| | 5.18 | 145 | 471 | 30200 | 174 | 535 | 28600 | 280 | 746 | 24800 | — | — | — | 93500 | 54 (F) |
| RE 4802 | 13.17 | 57 | 227 | 36200 | 68 | 258 | 34300 | 110 | 361 | 29700 | — | — | — | 111000 | 34 (H) 34 (F) |
| | 15.71 | 47.7 | 198 | 37600 | 57 | 225 | 35600 | 92 | 314 | 30900 | — | — | — | 111000 | |
| | 17.75 | 42.3 | 167 | 35900 | 51 | 198 | 35500 | 82 | 311 | 34600 | — | — | — | 93500 | |
| | 20.16 | 37.2 | 162 | 39400 | 44.6 | 184 | 37300 | 72 | 256 | 32400 | — | — | — | 111000 | |
| | 21.18 | 35.4 | 141 | 36300 | 42.5 | 168 | 35900 | 68 | 263 | 34900 | — | — | — | 93500 | |
| | 23.93 | 31.3 | 116 | 33700 | 37.6 | 138 | 33400 | 61 | 217 | 32500 | — | — | — | 92900 | |
| | 27.18 | 27.6 | 112 | 36800 | 33.1 | 133 | 36400 | 53 | 208 | 35400 | — | — | — | 93500 | |
| | 32.25 | 23.3 | 95 | 37100 | 27.9 | 113 | 36800 | 45.0 | 177 | 35800 | — | — | — | 93500 | |
| RE 4803 | 47.40 | 15.8 | 80 | 44700 | 19.0 | 91 | 42400 | 30.6 | 127 | 36700 | 61 | 206 | 29800 | 111000 | 24 (H) 25 (F) |
| | 56.55 | 13.3 | 79 | 52700 | 15.9 | 91 | 50500 | 25.6 | 127 | 43800 | 51 | 206 | 35600 | 111000 | |
| | 66.76 | 11.2 | 67 | 53200 | 13.5 | 80 | 52300 | 21.7 | 111 | 45300 | 43.4 | 181 | 36800 | 111000 | |
| | 72.58 | 10.3 | 53 | 45700 | 12.4 | 63 | 45300 | 20.0 | 99 | 44000 | 40.0 | 174 | 38600 | 111000 | |
| | 83.78 | 9.0 | 54 | 53900 | 10.7 | 65 | 53300 | 17.3 | 92 | 47200 | 34.6 | 150 | 38400 | 111000 | |
| | 90.00 | 8.3 | 37.1 | 39400 | 10.0 | 44.0 | 39000 | 16.1 | 69 | 37900 | 32.2 | 133 | 36400 | 93500 | |
| | 101.69 | 7.4 | 30.5 | 36600 | 8.9 | 36.3 | 36300 | 14.3 | 57 | 35300 | 28.5 | 109 | 33900 | 92900 | |
| | 112.94 | 6.6 | 29.9 | 39900 | 8.0 | 35.5 | 39500 | 12.8 | 56 | 38400 | 25.7 | 107 | 36900 | 93500 | |
| | 124.99 | 6.0 | 32.0 | 47200 | 7.2 | 38.0 | 46700 | 11.6 | 60 | 45400 | 23.2 | 114 | 43700 | 111000 | |
| | 144.94 | 5.2 | 23.7 | 40500 | 6.2 | 28.1 | 40000 | 10.0 | 44.0 | 39000 | 20.0 | 85 | 37500 | 93500 | |
| | 158.82 | 4.7 | 21.8 | 40900 | 5.7 | 25.8 | 40300 | 9.1 | 40.4 | 39200 | 18.3 | 78 | 37700 | 93500 | |
| | 172.02 | 4.4 | 20.4 | 41400 | 5.2 | 23.9 | 40400 | 8.4 | 37.5 | 39400 | 16.9 | 72 | 37800 | 93500 | |
| | 199.97 | 3.8 | 17.9 | 42300 | 4.5 | 20.9 | 41200 | 7.3 | 32.5 | 39700 | 14.5 | 63 | 38200 | 93500 | |
| | 241.90 | 3.1 | 15.3 | 43600 | 3.7 | 17.8 | 42400 | 6.0 | 27.2 | 40100 | 12.0 | 52 | 38600 | 93500 | |
| RE 4804 | 164.94 | 4.5 | 27.9 | 54300 | 5.5 | 32.5 | 51400 | 8.8 | 45.4 | 44500 | 17.6 | 74 | 36200 | 111000 | 19 (H) 19 (F) |
| | 196.80 | 3.8 | 25.9 | 60100 | 4.6 | 31.0 | 58500 | 7.4 | 45.4 | 53100 | 14.7 | 74 | 43200 | 111000 | |
| | 232.34 | 3.2 | 22.5 | 61700 | 3.9 | 26.9 | 60000 | 6.2 | 40.4 | 55800 | 12.5 | 74 | 50900 | 111000 | |
| | 252.56 | 3.0 | 16.5 | 49100 | 3.6 | 20.1 | 48600 | 5.7 | 31.5 | 47300 | 11.5 | 60 | 45400 | 111000 | |
| | 284.62 | 2.6 | 18.9 | 63600 | 3.2 | 22.7 | 61900 | 5.1 | 34.0 | 57600 | 10.2 | 63 | 53400 | 111000 | |
| | 322.81 | 2.3 | 14.1 | 53900 | 2.8 | 17.2 | 53300 | 4.5 | 27.0 | 51900 | 9.0 | 49.4 | 47400 | 111000 | |
| | 357.18 | 2.1 | 14.0 | 58900 | 2.5 | 17.0 | 58300 | 4.1 | 26.7 | 56800 | 8.1 | 50.9 | 54200 | 111000 | |
| | 401.94 | 1.9 | 9.9 | 47100 | 2.2 | 11.9 | 45800 | 3.6 | 17.8 | 42600 | 7.2 | 33.2 | 39700 | 93500 | |
| | 456.90 | 1.6 | 8.9 | 48000 | 2.0 | 10.7 | 46700 | 3.2 | 16.0 | 43400 | 6.3 | 29.4 | 40000 | 93500 | |
| | 504.40 | 1.5 | 8.2 | 48700 | 1.8 | 9.8 | 47400 | 2.9 | 14.7 | 44100 | 5.7 | 26.8 | 40200 | 93500 | |
| | 564.43 | 1.3 | 7.4 | 49500 | 1.6 | 8.9 | 48200 | 2.6 | 13.3 | 44800 | 5.1 | 24.1 | 40500 | 93500 | |
| | 634.83 | 1.2 | 6.7 | 50400 | 1.4 | 8.1 | 49100 | 2.3 | 12.1 | 45600 | 4.6 | 21.8 | 41100 | 93500 | |
| | 709.31 | 1.1 | 6.1 | 51300 | 1.3 | 7.3 | 49900 | 2.0 | 11.0 | 46400 | 4.1 | 19.8 | 41800 | 93500 | |
| | 792.27 | 0.95 | 5.6 | 52100 | 1.1 | 6.7 | 50700 | 1.8 | 10.0 | 47200 | 3.7 | 18.0 | 42500 | 93500 | |
| | 899.94 | 0.83 | 5.3 | 56500 | 1.0 | 6.4 | 54900 | 1.6 | 9.5 | 51100 | 3.2 | 18.2 | 48900 | 111000 | |
| | 992.41 | 0.76 | 4.6 | 53900 | 0.91 | 5.5 | 52500 | 1.5 | 8.3 | 48800 | 2.9 | 14.9 | 44000 | 93500 | |
| | 1143.53 | 0.66 | 4.0 | 54200 | 0.79 | 4.9 | 53600 | 1.3 | 7.3 | 49900 | 2.5 | 13.2 | 44900 | 93500 | |
| | 1238.53 | 0.61 | 3.8 | 55800 | 0.73 | 4.6 | 54300 | 1.2 | 6.8 | 50500 | 2.3 | 12.3 | 45500 | 93500 | |
| | 1439.79 | 0.52 | 3.4 | 57100 | 0.63 | 4.0 | 55500 | 1.0 | 6.0 | 51700 | 2.0 | 10.9 | 46500 | 93500 | |
| | 1741.68 | 0.43 | 2.9 | 58700 | 0.52 | 3.4 | 57100 | 0.83 | 5.1 | 53200 | 1.7 | 9.2 | 47900 | 93500 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|----------------|---------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 4802 | 12.48 | 60 | 233 | 34600 | 72 | 273 | 33800 | 116 | 381 | 29300 | 232 | 619 | 23800 | 88500 | 30 (H) |
| | 16.82 | 44.6 | 178 | 35800 | 53 | 212 | 35400 | 86 | 332 | 34500 | 172 | 553 | 28700 | 93500 | 31 (F) |
| RA 4803 | 40.44 | 18.5 | 108 | 50800 | 22.3 | 123 | 48100 | 35.9 | 171 | 41600 | 72 | 278 | 33800 | 111000 | 24 (H) 18 (F) |
| | 48.25 | 15.5 | 93 | 52200 | 18.7 | 107 | 49900 | 30.1 | 149 | 43200 | 60 | 242 | 35100 | 111000 | |
| | 54.51 | 13.8 | 60 | 38300 | 16.5 | 72 | 37900 | 26.6 | 112 | 36900 | 53 | 216 | 35400 | 93500 | |
| | 61.92 | 12.1 | 63 | 45300 | 14.5 | 75 | 44800 | 23.4 | 117 | 43600 | 46.8 | 198 | 36800 | 111000 | |
| | 73.31 | 10.2 | 55 | 47100 | 12.3 | 66 | 46600 | 19.8 | 103 | 45300 | 39.6 | 181 | 39800 | 111000 | |
| | 94.08 | 8.0 | 42.4 | 46400 | 9.6 | 50 | 45900 | 15.4 | 79 | 44700 | 30.8 | 148 | 41700 | 111000 | |
| | 99.06 | 7.6 | 34.4 | 39600 | 9.1 | 40.8 | 39200 | 14.6 | 64 | 38100 | 29.3 | 123 | 36700 | 93500 | |
| | 111.66 | 6.7 | 28.4 | 36800 | 8.1 | 33.7 | 36500 | 13.0 | 53 | 35500 | 26.0 | 102 | 34100 | 92900 | |
| | 126.82 | 5.9 | 27.2 | 40200 | 7.1 | 32.4 | 39700 | 11.4 | 51 | 38700 | 22.9 | 98 | 37200 | 93500 | |
| | 150.52 | 5.0 | 23.2 | 40600 | 6.0 | 27.5 | 40100 | 9.6 | 43.2 | 39100 | 19.3 | 83 | 37500 | 93500 | |
| RA 4804 | 132.03 | 5.7 | 28.5 | 42600 | 6.8 | 32.4 | 40400 | 11.0 | 45.2 | 35000 | 22.0 | 73 | 28400 | 111000 | 17 (H) 15 (F) |
| | 157.54 | 4.8 | 28.5 | 50900 | 5.7 | 32.4 | 48200 | 9.2 | 45.2 | 41700 | 18.4 | 73 | 33900 | 111000 | |
| | 177.99 | 4.2 | 20.6 | 41600 | 5.1 | 24.1 | 40500 | 8.1 | 37.8 | 39400 | 16.3 | 73 | 37900 | 93500 | |
| | 202.18 | 3.7 | 21.2 | 48500 | 4.5 | 25.1 | 48000 | 7.2 | 39.4 | 46700 | 14.3 | 73 | 43500 | 111000 | |
| | 223.82 | 3.4 | 21.1 | 53500 | 4.0 | 24.0 | 50600 | 6.5 | 33.4 | 43900 | 13.0 | 54.3 | 35600 | 111000 | |
| | 250.71 | 3.0 | 15.4 | 43800 | 3.6 | 18.0 | 42600 | 5.8 | 27.4 | 40200 | 11.6 | 53 | 38600 | 93500 | |
| | 280.87 | 2.7 | 15.5 | 49200 | 3.2 | 18.4 | 48700 | 5.2 | 28.8 | 47400 | 10.3 | 54.3 | 44700 | 111000 | |
| | 314.62 | 2.4 | 12.7 | 45300 | 2.9 | 14.8 | 44100 | 4.6 | 22.3 | 41000 | 9.2 | 42.5 | 39200 | 93500 | |
| | 348.19 | 2.2 | 12.7 | 50000 | 2.6 | 15.1 | 49500 | 4.2 | 23.6 | 48200 | 8.3 | 45.4 | 46300 | 111000 | |
| | 403.76 | 1.9 | 10.3 | 47100 | 2.2 | 12.0 | 45800 | 3.6 | 18.0 | 42600 | 7.2 | 33.6 | 39700 | 93500 | |
| | 442.44 | 1.7 | 9.5 | 47700 | 2.0 | 11.1 | 46400 | 3.3 | 16.7 | 43200 | 6.6 | 30.8 | 39900 | 93500 | |
| | 499.97 | 1.5 | 9.1 | 51700 | 1.8 | 10.7 | 50500 | 2.9 | 16.8 | 49200 | 5.8 | 32.3 | 47300 | 111000 | |
| | 567.79 | 1.3 | 7.7 | 49600 | 1.6 | 9.0 | 48200 | 2.6 | 13.5 | 44900 | 5.1 | 24.3 | 40500 | 93500 | |
| | 635.29 | 1.2 | 7.0 | 50400 | 1.4 | 8.2 | 49100 | 2.3 | 12.3 | 45600 | 4.6 | 22.1 | 41100 | 93500 | |
| | 688.07 | 1.1 | 6.5 | 51000 | 1.3 | 7.6 | 49700 | 2.1 | 11.5 | 46200 | 4.2 | 20.6 | 41600 | 93500 | |
| | 799.88 | 0.94 | 5.8 | 52200 | 1.1 | 6.7 | 50800 | 1.8 | 10.1 | 47300 | 3.6 | 18.2 | 42600 | 93500 | |
| | 967.60 | 0.78 | 4.9 | 53700 | 0.93 | 5.7 | 52300 | 1.5 | 8.6 | 48600 | 3.0 | 15.4 | 43800 | 93500 | |

| | | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] | |
|----------------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------|
| ie | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | | |
| RE 6001 | | 4.14 | 181 | 576 | 29600 | 217 | 654 | 28100 | 350 | 910 | 24300 | — | — | — | 136000 | 70 (H) 63 (F) |
| | | 5.40 | 139 | 467 | 31300 | 167 | 530 | 29600 | 269 | 740 | 25700 | — | — | — | 112000 | |
| | | 6.50 | 115 | 383 | 30900 | 138 | 452 | 30400 | 223 | 630 | 26400 | — | — | — | 85300 | |
| RE 6002 | L | 14.20 | 53 | 227 | 39100 | 63 | 258 | 37000 | 102 | 361 | 32100 | — | — | — | 114000 | 40 (H) 36 (F) |
| | | 15.88 | 47.2 | 231 | 44400 | 57 | 262 | 42000 | 91 | 366 | 36400 | — | — | — | 135000 | |
| | L | 16.95 | 44.3 | 198 | 40600 | 53 | 225 | 38400 | 86 | 314 | 33300 | — | — | — | 114000 | |
| | | 20.70 | 36.2 | 175 | 43900 | 43.5 | 212 | 43400 | 70 | 296 | 38400 | — | — | — | 112000 | |
| | | 21.75 | 34.5 | 185 | 48700 | 41.4 | 210 | 46200 | 67 | 294 | 40000 | — | — | — | 135000 | |
| | L | 22.09 | 34.0 | 165 | 44100 | 40.7 | 196 | 43600 | 66 | 283 | 39200 | — | — | — | 85300 | |
| | L | 25.81 | 29.1 | 116 | 36400 | 34.9 | 138 | 36000 | 56 | 217 | 35000 | — | — | — | 114000 | |
| | L | 28.35 | 26.5 | 130 | 44700 | 31.7 | 155 | 44200 | 51 | 238 | 42200 | — | — | — | 112000 | |
| | L | 33.65 | 22.3 | 111 | 45100 | 26.7 | 132 | 44700 | 43.1 | 206 | 43500 | — | — | — | 112000 | |
| L | 40.50 | 18.5 | 70 | 34300 | 22.2 | 83 | 34000 | 35.8 | 130 | 33100 | — | — | — | 85300 | | |
| RE 6003 | L | 51.13 | 14.7 | 80 | 48300 | 17.6 | 91 | 45700 | 28.4 | 127 | 39600 | 57 | 206 | 32200 | 114000 | 28 (H) 28 (F) |
| | | 63.52 | 11.8 | 77 | 57700 | 14.2 | 102 | 57100 | 22.8 | 142 | 55200 | 45.7 | 231 | 44800 | 135000 | |
| | L | 72.03 | 10.4 | 68 | 58200 | 12.5 | 80 | 56400 | 20.1 | 111 | 48900 | 40.3 | 181 | 39700 | 114000 | |
| | L | 79.53 | 9.4 | 51 | 47400 | 11.3 | 60 | 46900 | 18.2 | 94 | 45600 | 36.5 | 181 | 43900 | 112000 | |
| | | 98.86 | 7.6 | 51 | 60100 | 9.1 | 75 | 58600 | 14.7 | 104 | 57000 | 29.3 | 169 | 51200 | 135000 | |
| | L | 114.79 | 6.5 | 35.7 | 48400 | 7.8 | 42.4 | 47900 | 12.6 | 67 | 46600 | 25.3 | 128 | 44800 | 112000 | |
| | L | 120.49 | 6.2 | 34.2 | 48600 | 7.5 | 40.5 | 48000 | 12.0 | 64 | 46700 | 24.1 | 122 | 44900 | 112000 | |
| | L | 141.82 | 5.3 | 22.0 | 36900 | 6.3 | 26.2 | 36500 | 10.2 | 41.0 | 35500 | 20.4 | 79 | 34100 | 85300 | |
| | L | 160.04 | 4.7 | 21.4 | 40400 | 5.6 | 25.4 | 40000 | 9.1 | 39.8 | 38900 | 18.1 | 77 | 37400 | 100000 | |
| | L | 175.77 | 4.3 | 24.8 | 51500 | 5.1 | 29.0 | 50100 | 8.2 | 44.5 | 47800 | 16.5 | 86 | 45900 | 112000 | |
| | L | 199.43 | 3.8 | 16.4 | 38700 | 4.5 | 19.2 | 37600 | 7.3 | 29.7 | 36200 | 14.5 | 57 | 34800 | 85300 | |
| | L | 216.00 | 3.5 | 15.4 | 39100 | 4.2 | 17.9 | 38100 | 6.7 | 27.6 | 36400 | 13.4 | 53 | 35000 | 85300 | |
| L | 251.10 | 3.0 | 13.5 | 40000 | 3.6 | 15.8 | 38900 | 5.8 | 23.9 | 36700 | 11.5 | 46 | 35300 | 85300 | | |
| RE 6004 | L | 177.95 | 4.2 | 28.6 | 58500 | 5.1 | 32.5 | 55400 | 8.1 | 45.4 | 48000 | 16.3 | 74 | 39000 | 114000 | 22 (H) 21 (F) |
| | L | 212.33 | 3.5 | 27.6 | 67400 | 4.2 | 32.2 | 65600 | 6.8 | 45.4 | 57300 | 13.7 | 74 | 46600 | 114000 | |
| | | 228.69 | 3.3 | 25.9 | 68200 | 3.9 | 42.6 | 66300 | 6.3 | 59 | 61700 | 12.7 | 97 | 57500 | 135000 | |
| | L | 250.66 | 3.0 | 23.8 | 68700 | 3.6 | 28.0 | 67300 | 5.8 | 42.0 | 62600 | 11.6 | 74 | 55000 | 114000 | |
| | L | 284.15 | 2.6 | 16.9 | 55300 | 3.2 | 19.8 | 53800 | 5.1 | 29.6 | 50100 | 10.2 | 56 | 47200 | 112000 | |
| | | 313.20 | 2.4 | 19.3 | 69400 | 2.9 | 34.2 | 68700 | 4.6 | 47.7 | 64700 | 9.3 | 78 | 58500 | 135000 | |
| | | 355.91 | 2.1 | 17.1 | 69900 | 2.5 | 31.3 | 69200 | 4.1 | 43.6 | 66000 | 8.1 | 71 | 59400 | 135000 | |
| | | 393.85 | 1.9 | 16.3 | 74000 | 2.3 | 29.1 | 72000 | 3.7 | 40.7 | 67000 | 7.4 | 66 | 60300 | 135000 | |
| | | 447.55 | 1.7 | 14.7 | 75500 | 2.0 | 26.6 | 73400 | 3.2 | 37.2 | 68300 | 6.5 | 60 | 61500 | 135000 | |
| | L | 502.28 | 1.5 | 10.4 | 60300 | 1.8 | 12.2 | 58700 | 2.9 | 18.3 | 54600 | 5.8 | 32.9 | 49200 | 112000 | |
| | L | 569.67 | 1.3 | 9.4 | 61500 | 1.6 | 10.9 | 59800 | 2.5 | 16.4 | 55600 | 5.1 | 29.6 | 50100 | 112000 | |
| | | 621.00 | 1.2 | 8.7 | 62300 | 1.4 | 20.6 | 60600 | 2.3 | 28.8 | 56400 | 4.7 | 46.8 | 50800 | 112000 | |
| | | 703.08 | 1.1 | 7.8 | 63500 | 1.3 | 18.9 | 61700 | 2.1 | 26.4 | 57400 | 4.1 | 42.9 | 51700 | 112000 | |
| | L | 790.17 | 0.95 | 7.1 | 64600 | 1.1 | 8.3 | 62800 | 1.8 | 12.4 | 58500 | 3.7 | 22.4 | 52600 | 112000 | |
| | L | 906.45 | 0.83 | 6.3 | 66000 | 1.0 | 7.4 | 64200 | 1.6 | 11.1 | 59700 | 3.2 | 19.9 | 53800 | 112000 | |
| | L | 986.14 | 0.76 | 5.9 | 66800 | 0.91 | 6.9 | 65000 | 1.5 | 10.3 | 60500 | 2.9 | 18.6 | 54400 | 112000 | |
| | L | 1088.64 | 0.69 | 5.4 | 67800 | 0.83 | 6.3 | 66000 | 1.3 | 9.5 | 61400 | 2.7 | 17.1 | 55300 | 112000 | |
| L | 1265.54 | 0.59 | 4.8 | 69400 | 0.71 | 5.6 | 67500 | 1.1 | 8.3 | 62800 | 2.3 | 15.0 | 56500 | 112000 | | |
| L | 1435.91 | 0.52 | 3.2 | 52100 | 0.63 | 3.7 | 50700 | 1.0 | 5.5 | 47200 | 2.0 | 9.9 | 42500 | 85300 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|-----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 6002 | 13.46 | 56 | 233 | 37300 | 67 | 273 | 36500 | 108 | 381 | 31600 | 215 | 619 | 25700 | 95500 | 36 (H) 34 (F) |
| | 17.55 | 42.7 | 208 | 43500 | 51 | 242 | 42200 | 83 | 338 | 36600 | 165 | 549 | 29700 | 112000 | |
| | 21.13 | 35.5 | 131 | 33100 | 42.6 | 156 | 32700 | 69 | 245 | 31900 | 137 | 469 | 30500 | 85300 | |
| RA 6003 | L 43.63 | 17.2 | 108 | 54800 | 20.6 | 123 | 51800 | 33.2 | 171 | 44900 | 66 | 278 | 36500 | 114000 | 27 (H) 25 (F) |
| | L 52.05 | 14.4 | 94 | 56900 | 17.3 | 107 | 53800 | 27.9 | 149 | 46700 | 56 | 242 | 37900 | 114000 | |
| | L 56.87 | 13.2 | 70 | 46500 | 15.8 | 84 | 46000 | 25.5 | 131 | 44800 | 51 | 247 | 42300 | 112000 | |
| | 66.80 | 11.2 | 75 | 57900 | 13.5 | 89 | 57300 | 21.7 | 139 | 55800 | 43.4 | 227 | 45500 | 135000 | |
| | 74.11 | 10.1 | 55 | 47600 | 12.1 | 66 | 47100 | 19.6 | 103 | 45800 | 39.1 | 196 | 43600 | 135000 | |
| | L 79.09 | 9.5 | 55 | 50800 | 11.4 | 66 | 50200 | 18.3 | 103 | 48900 | 36.7 | 181 | 43000 | 114000 | |
| | L 87.08 | 8.6 | 47.1 | 47600 | 10.3 | 56 | 47200 | 16.7 | 88 | 45900 | 33.3 | 169 | 44100 | 112000 | |
| | 101.50 | 7.4 | 51 | 60300 | 8.9 | 60 | 58700 | 14.3 | 94 | 57100 | 28.6 | 169 | 51600 | 135000 | |
| | 116.28 | 6.5 | 27.0 | 36500 | 7.7 | 32.1 | 36100 | 12.5 | 50 | 35100 | 24.9 | 97 | 33800 | 85300 | |
| | L 132.30 | 5.7 | 32.1 | 49300 | 6.8 | 37.7 | 48300 | 11.0 | 59 | 47000 | 21.9 | 114 | 45200 | 112000 | |
| L 157.02 | 4.8 | 27.7 | 50600 | 5.7 | 32.4 | 49200 | 9.2 | 50 | 47500 | 18.5 | 97 | 45600 | 112000 | | |
| RA 6004 | L 142.45 | 5.3 | 28.5 | 46000 | 6.3 | 32.4 | 43500 | 10.2 | 45.2 | 37700 | 20.4 | 73 | 30600 | 114000 | 20 (H) 18 (F) |
| | L 168.17 | 4.5 | 28.5 | 54300 | 5.4 | 32.4 | 51400 | 8.6 | 45.2 | 44500 | 17.2 | 73 | 36200 | 114000 | |
| | 176.96 | 4.2 | 28.5 | 57100 | 5.1 | 32.4 | 54100 | 8.2 | 45.2 | 46900 | 16.4 | 73 | 38100 | 135000 | |
| | L 200.65 | 3.7 | 28.5 | 64800 | 4.5 | 32.4 | 61300 | 7.2 | 45.2 | 53200 | 14.5 | 73 | 43200 | 114000 | |
| | L 221.54 | 3.4 | 21.2 | 53300 | 4.1 | 24.8 | 51800 | 6.5 | 37.3 | 48400 | 13.1 | 72 | 46500 | 112000 | |
| | L 251.80 | 3.0 | 21.8 | 62100 | 3.6 | 25.8 | 61400 | 5.8 | 40.5 | 59800 | 11.5 | 73 | 54200 | 114000 | |
| | L 284.31 | 2.6 | 17.2 | 55300 | 3.2 | 20.1 | 53800 | 5.1 | 30.1 | 50100 | 10.2 | 57 | 47200 | 112000 | |
| | L 314.74 | 2.4 | 15.8 | 56200 | 2.9 | 18.4 | 54700 | 4.6 | 27.6 | 50900 | 9.2 | 51.5 | 47500 | 112000 | |
| | 348.00 | 2.2 | 17.7 | 69900 | 2.6 | 21.0 | 69100 | 4.2 | 32.3 | 65800 | 8.3 | 54.3 | 55400 | 135000 | |
| | 395.45 | 1.9 | 15.7 | 70400 | 2.3 | 18.7 | 69600 | 3.7 | 28.9 | 67100 | 7.3 | 52.1 | 60400 | 135000 | |
| | 453.60 | 1.7 | 11.6 | 59400 | 2.0 | 10.0 | 42600 | 3.2 | 14.9 | 39600 | 6.4 | 36.5 | 48500 | 85300 | |
| | 515.45 | 1.5 | 10.4 | 60600 | 1.7 | 12.1 | 58900 | 2.8 | 18.1 | 54800 | 5.6 | 32.7 | 49400 | 112000 | |
| | L 547.85 | 1.4 | 9.8 | 61100 | 1.6 | 11.5 | 59500 | 2.6 | 17.2 | 55300 | 5.3 | 31.0 | 49800 | 112000 | |
| | L 640.17 | 1.2 | 6.1 | 44100 | 1.4 | 7.2 | 43300 | 2.3 | 11.2 | 42100 | 4.5 | 21.6 | 40500 | 114000 | |
| | L 703.08 | 1.1 | 8.0 | 63500 | 1.3 | 9.3 | 61700 | 2.1 | 13.9 | 57400 | 4.1 | 25.1 | 51700 | 112000 | |
| | L 797.73 | 0.94 | 5.3 | 47700 | 1.1 | 6.2 | 46400 | 1.8 | 9.2 | 43200 | 3.6 | 16.6 | 38900 | 85300 | |
| L 1009.38 | 0.74 | 5.2 | 59200 | 0.89 | 6.0 | 57500 | 1.4 | 9.4 | 55500 | 2.9 | 18.0 | 53300 | 112000 | | |

RE 8000



| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] | |
|----------------|---------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|-------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | | |
| RE 8001 | | 188 | 789 | 39200 | 225 | 897 | 37100 | 363 | 1252 | 32200 | — | — | — | 198000 | 77 | |
| | | 4.67 | 161 | 696 | 40300 | 193 | 790 | 38200 | 311 | 1104 | 33100 | — | — | — | 175000 | (H-F) |
| RE 8002 | L | 14.50 | 52 | 329 | 57700 | 62 | 373 | 54600 | 100 | 521 | 47300 | — | — | — | 198000 | 45 (H-F) |
| | L | 16.00 | 46.9 | 302 | 58500 | 56 | 343 | 55400 | 91 | 479 | 48000 | — | — | — | 198000 | |
| | | 18.82 | 39.8 | 274 | 62400 | 47.8 | 311 | 59100 | 77 | 434 | 51200 | — | — | — | 198000 | |
| | L | 20.80 | 36.1 | 244 | 61400 | 43.3 | 277 | 58100 | 70 | 387 | 50300 | — | — | — | 198000 | |
| | | 21.96 | 34.2 | 241 | 64200 | 41.0 | 274 | 60700 | 66 | 383 | 52600 | — | — | — | 175000 | |
| | L | 24.27 | 30.9 | 225 | 66100 | 37.1 | 256 | 62600 | 60 | 357 | 54200 | — | — | — | 175000 | |
| L | 29.17 | 25.7 | 189 | 66600 | 30.9 | 224 | 65900 | 49.7 | 314 | 57300 | — | — | — | 175000 | | |
| RE 8003 | L | 51.66 | 14.5 | 100 | 60800 | 17.4 | 113 | 57600 | 28.1 | 158 | 49900 | — | — | — | 198000 | 33 (H-F) |
| | L | 57.00 | 13.2 | 100 | 67100 | 15.8 | 113 | 63500 | 25.4 | 158 | 55100 | — | — | — | 198000 | |
| | L | 66.46 | 11.3 | 88 | 69200 | 13.5 | 100 | 65500 | 21.8 | 140 | 56700 | — | — | — | 198000 | |
| | L | 70.27 | 10.7 | 87 | 72500 | 12.8 | 100 | 69200 | 20.6 | 140 | 60000 | — | — | — | 175000 | |
| | | 78.19 | 9.6 | 92 | 85200 | 11.5 | 110 | 84300 | 18.5 | 164 | 78500 | — | — | — | 198000 | |
| | | 93.18 | 8.0 | 78 | 86000 | 9.7 | 93 | 85100 | 15.6 | 145 | 82700 | — | — | — | 198000 | |
| | L | 100.80 | 7.4 | 62 | 74000 | 8.9 | 74 | 73200 | 14.4 | 116 | 71200 | — | — | — | 175000 | |
| | | 112.00 | 6.7 | 56 | 74400 | 8.0 | 67 | 73700 | 12.9 | 105 | 71700 | — | — | — | 175000 | |
| | | 129.08 | 5.8 | 58 | 89100 | 7.0 | 68 | 86700 | 11.2 | 107 | 84400 | — | — | — | 198000 | |
| | L | 141.32 | 5.3 | 45.5 | 75900 | 6.4 | 54 | 74600 | 10.3 | 84 | 72600 | — | — | — | 175000 | |
| L | 166.40 | 4.5 | 39.6 | 77800 | 5.4 | 46.3 | 75700 | 8.7 | 72 | 73300 | — | — | — | 175000 | | |
| RE 8004 | L | 185.96 | 4.0 | 41.7 | 89300 | 4.8 | 47.4 | 84600 | 7.8 | 66 | 73300 | 15.6 | 108 | 59500 | 198000 | 26 (H-F) |
| | L | 205.20 | 3.7 | 40.5 | 95600 | 4.4 | 47.3 | 93000 | 7.1 | 66 | 80900 | 14.1 | 108 | 65700 | 198000 | |
| | L | 219.54 | 3.4 | 37.2 | 93900 | 4.1 | 42.2 | 88900 | 6.6 | 59 | 77000 | 13.2 | 96 | 62600 | 198000 | |
| | L | 255.98 | 2.9 | 32.2 | 95000 | 3.5 | 37.3 | 91600 | 5.7 | 52 | 79400 | 11.3 | 85 | 64500 | 198000 | |
| | L | 282.46 | 2.7 | 30.9 | 100000 | 3.2 | 36.0 | 97600 | 5.1 | 52 | 87600 | 10.3 | 85 | 71100 | 198000 | |
| | L | 321.23 | 2.3 | 26.3 | 97300 | 2.8 | 30.9 | 95200 | 4.5 | 44.4 | 85000 | 9.0 | 72 | 69000 | 198000 | |
| | L | 354.46 | 2.1 | 25.5 | 104000 | 2.5 | 29.7 | 101000 | 4.1 | 44.4 | 93800 | 8.2 | 72 | 76200 | 198000 | |
| | | 394.63 | 1.9 | 23.2 | 106000 | 2.3 | 27.1 | 103000 | 3.7 | 40.7 | 95500 | 7.3 | 74 | 86500 | 198000 | |
| | | 435.20 | 1.7 | 21.4 | 107000 | 2.1 | 25.0 | 104000 | 3.3 | 37.4 | 96900 | 6.7 | 67 | 87300 | 198000 | |
| | | 502.94 | 1.5 | 18.9 | 109000 | 1.8 | 22.1 | 106000 | 2.9 | 33.1 | 99100 | 5.8 | 60 | 89200 | 198000 | |
| | | 577.69 | 1.3 | 16.8 | 112000 | 1.6 | 19.6 | 109000 | 2.5 | 29.4 | 101000 | 5.0 | 53 | 91100 | 198000 | |
| | | 612.00 | 1.2 | 16.0 | 113000 | 1.5 | 18.7 | 110000 | 2.4 | 28.0 | 102000 | 4.7 | 50 | 91900 | 198000 | |
| | | 698.82 | 1.1 | 14.1 | 113000 | 1.3 | 16.7 | 112000 | 2.1 | 25.0 | 104000 | 4.1 | 45.1 | 93800 | 198000 | |
| | | 800.27 | 0.94 | 12.3 | 114000 | 1.1 | 14.7 | 113000 | 1.8 | 22.3 | 106000 | 3.6 | 40.2 | 95700 | 198000 | |
| | L | 887.47 | 0.85 | 9.8 | 100000 | 1.0 | 11.5 | 97500 | 1.6 | 17.2 | 90700 | 3.3 | 30.9 | 81700 | 175000 | |
| | | 933.65 | 0.80 | 9.4 | 101000 | 1.0 | 11.0 | 98300 | 1.6 | 16.5 | 91400 | 3.1 | 29.6 | 82300 | 175000 | |
| L | 1031.68 | 0.73 | 8.5 | 101000 | 0.9 | 10.1 | 99800 | 1.4 | 15.1 | 92800 | 2.8 | 27.2 | 83600 | 175000 | | |
| | 1129.41 | 0.66 | 8.0 | 104000 | 0.8 | 9.3 | 101000 | 1.3 | 14.0 | 94100 | 2.6 | 25.2 | 84700 | 175000 | | |
| L | 1248.00 | 0.60 | 7.1 | 102000 | 0.7 | 8.5 | 101000 | 1.2 | 12.9 | 95500 | 2.3 | 23.2 | 86000 | 175000 | | |
| RE 8005 | L | 647.15 | 1.16 | 14.9 | 108000 | 1.4 | 17.4 | 105000 | 2.2 | 26.0 | 97700 | 4.5 | 42.3 | 79400 | 198000 | 22 (H-F) |
| | L | 714.10 | 1.05 | 14.4 | 115000 | 1.3 | 16.8 | 112000 | 2.0 | 25.2 | 104000 | 4.1 | 42.3 | 87600 | 198000 | |
| | L | 792.79 | 0.95 | 12.5 | 112000 | 1.1 | 14.6 | 109000 | 1.8 | 22.0 | 101000 | 3.7 | 36.1 | 83100 | 198000 | |
| | L | 890.81 | 0.84 | 10.3 | 103000 | 1.0 | 12.3 | 102000 | 1.6 | 19.2 | 99400 | 3.3 | 36.3 | 93700 | 198000 | |
| | | 991.80 | 0.76 | 10.9 | 121000 | 0.91 | 12.7 | 118000 | 1.5 | 19.1 | 110000 | 2.9 | 34.4 | 98900 | 198000 | |
| | L | 1117.88 | 0.67 | 8.3 | 105000 | 0.81 | 9.9 | 103000 | 1.3 | 15.5 | 101000 | 2.6 | 29.5 | 95800 | 198000 | |
| | L | 1266.57 | 0.59 | 7.4 | 105000 | 0.71 | 8.8 | 104000 | 1.1 | 13.7 | 101000 | 2.3 | 26.4 | 97000 | 198000 | |
| | | 1416.68 | 0.53 | 8.1 | 128000 | 0.64 | 9.4 | 125000 | 1.0 | 14.1 | 116000 | 2.0 | 25.4 | 104000 | 198000 | |
| | L | 1589.42 | 0.47 | 5.4 | 95700 | 0.57 | 6.4 | 94700 | 0.91 | 10.0 | 92200 | 1.8 | 19.2 | 88600 | 198000 | |
| | | 1777.79 | 0.42 | 6.6 | 133000 | 0.51 | 7.8 | 129000 | 0.82 | 11.6 | 120000 | 1.6 | 20.9 | 108000 | 198000 | |
| | | 1993.85 | 0.38 | 6.0 | 135000 | 0.45 | 7.0 | 131000 | 0.73 | 10.5 | 122000 | 1.5 | 19.0 | 110000 | 198000 | |
| | L | 2236.25 | 0.34 | 4.2 | 106000 | 0.40 | 5.0 | 104000 | 0.65 | 7.8 | 101000 | 1.3 | 14.5 | 93900 | 175000 | |
| | | 2510.77 | 0.30 | 5.0 | 140000 | 0.36 | 5.8 | 136000 | 0.58 | 8.7 | 126000 | 1.2 | 15.6 | 114000 | 198000 | |
| | L | 2813.91 | 0.27 | 3.8 | 119000 | 0.32 | 4.4 | 116000 | 0.52 | 6.6 | 108000 | 1.0 | 11.9 | 97300 | 175000 | |
| | 3164.84 | 0.24 | 3.5 | 124000 | 0.28 | 4.1 | 122000 | 0.46 | 6.4 | 118000 | 0.92 | 12.4 | 114000 | 198000 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------------|------------------------------|--------------------------|--------------------------|------------------------|--------------------------|--------------------------|------------------------|---------------------------|--------------------------|------------------------|---------------------------|--------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| RA 8002 | 13.00 15.17 | 58 49.5 | 233 233 | 36000 42000 | 69 59 | 273 273 | 35200 41100 | 112 96 | 381 381 | 30500 35600 | 223 191 | 619 619 | 24800 28900 | 92200 108000 | 35 (H-F) |
| RA 8003 | L 44.54 | 16.8 | 109 | 56600 | 20.2 | 124 | 53600 | 32.6 | 173 | 46400 | 65 | 282 | 37700 | 175000 | 29 (H-F) |
| | L 49.14 | 15.3 | 109 | 62400 | 18.3 | 124 | 59100 | 29.5 | 173 | 51200 | 59 | 282 | 41600 | 175000 | |
| | L 57.33 | 13.1 | 108 | 71600 | 15.7 | 124 | 69000 | 25.3 | 173 | 59800 | 51 | 282 | 48600 | 175000 | |
| | L 63.89 | 11.7 | 105 | 77600 | 14.1 | 124 | 76800 | 22.7 | 173 | 66600 | 45.4 | 282 | 54100 | 175000 | |
| | L 67.45 | 11.1 | 92 | 72300 | 13.3 | 110 | 71600 | 21.5 | 172 | 69600 | 43.0 | 282 | 57100 | 175000 | |
| | L 76.79 | 9.8 | 68 | 60800 | 11.7 | 81 | 60200 | 18.9 | 127 | 58600 | 37.8 | 244 | 56300 | 158000 | |
| | L 89.58 | 8.4 | 68 | 71000 | 10.0 | 81 | 70200 | 16.2 | 127 | 68400 | 32.4 | 242 | 65200 | 175000 | |
| | L 97.07 | 7.7 | 55 | 62300 | 9.3 | 66 | 61700 | 14.9 | 103 | 60000 | 29.9 | 196 | 57100 | 161000 | |
| | L 113.24 | 6.6 | 55 | 72700 | 7.9 | 66 | 71900 | 12.8 | 103 | 70000 | 25.6 | 196 | 66700 | 175000 | |
| RA 8004 | L 151.00 | 5.0 | 49.1 | 83900 | 6.0 | 56 | 79500 | 9.6 | 78 | 68900 | 19.2 | 126 | 55900 | 175000 | 24 (H-F) |
| | L 166.62 | 4.5 | 49.1 | 92600 | 5.4 | 56 | 87700 | 8.7 | 78 | 76000 | 17.4 | 126 | 61700 | 175000 | |
| | L 176.06 | 4.3 | 43.3 | 86500 | 5.1 | 49.2 | 81900 | 8.2 | 69 | 70900 | 16.5 | 112 | 57600 | 175000 | |
| | L 194.27 | 3.9 | 43.1 | 94800 | 4.6 | 49.2 | 90300 | 7.5 | 69 | 78300 | 14.9 | 112 | 63600 | 175000 | |
| | L 228.00 | 3.3 | 37.6 | 97100 | 3.9 | 43.9 | 94500 | 6.4 | 62 | 83500 | 12.7 | 101 | 67800 | 175000 | |
| | L 252.19 | 3.0 | 29.0 | 82900 | 3.6 | 33.9 | 80600 | 5.7 | 51 | 75100 | 11.5 | 95 | 69900 | 175000 | |
| | L 265.85 | 2.8 | 33.0 | 99400 | 3.4 | 38.5 | 96700 | 5.5 | 58 | 90000 | 10.9 | 109 | 84500 | 198000 | |
| | L 280.62 | 2.7 | 31.5 | 100000 | 3.2 | 36.8 | 97500 | 5.2 | 55 | 90700 | 10.3 | 103 | 84800 | 198000 | |
| | L 312.76 | 2.4 | 28.8 | 102000 | 2.9 | 33.6 | 99100 | 4.6 | 50 | 92200 | 9.3 | 93 | 85300 | 198000 | |
| | L 361.76 | 2.1 | 21.4 | 87500 | 2.5 | 24.9 | 85100 | 4.0 | 37.4 | 79200 | 8.0 | 69 | 73700 | 175000 | |
| | L 384.00 | 2.0 | 24.2 | 105000 | 2.3 | 28.2 | 102000 | 3.8 | 42.3 | 95100 | 7.6 | 77 | 86300 | 198000 | |
| | L 438.48 | 1.7 | 21.6 | 107000 | 2.1 | 25.2 | 104000 | 3.3 | 37.8 | 97000 | 6.6 | 68 | 87400 | 198000 | |
| | L 516.30 | 1.5 | 18.8 | 110000 | 1.7 | 21.9 | 107000 | 2.8 | 32.9 | 99500 | 5.6 | 59 | 89600 | 198000 | |
| | L 602.35 | 1.2 | 13.9 | 94500 | 1.5 | 16.2 | 92000 | 2.4 | 24.2 | 85600 | 4.8 | 43.6 | 77000 | 175000 | |
| | L 685.71 | 1.1 | 9.0 | 70200 | 1.3 | 10.5 | 68300 | 2.1 | 16.5 | 66400 | 4.2 | 31.8 | 63800 | 158000 | |
| L 800.00 | 0.94 | 9.0 | 81900 | 1.1 | 10.5 | 79700 | 1.8 | 16.5 | 77500 | 3.6 | 31.8 | 74500 | 175000 | | |

| | | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------|---------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | ie | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 12013 | L | 45.55 | 16.5 | 109 | 57900 | 19.8 | 124 | 54800 | 31.8 | 173 | 47500 | 64 | 282 | 38600 | 180000 |
| | L | 50.26 | 14.9 | 109 | 63900 | 17.9 | 124 | 60500 | 28.9 | 173 | 52400 | 58 | 282 | 42600 | 198000 |
| | L | 58.45 | 12.8 | 109 | 74300 | 15.4 | 124 | 70300 | 24.8 | 173 | 60900 | 49.6 | 282 | 49500 | 230000 |
| | L | 64.50 | 11.6 | 109 | 82000 | 14.0 | 124 | 77600 | 22.5 | 173 | 67200 | 45.0 | 282 | 54600 | 233000 |
| | L | 69.37 | 10.8 | 98 | 78600 | 13.0 | 116 | 77800 | 20.9 | 173 | 72300 | 41.8 | 282 | 58700 | 189000 |
| | L | 75.88 | 9.9 | 109 | 96400 | 11.9 | 124 | 91300 | 19.1 | 173 | 79100 | 38.2 | 282 | 64300 | 233000 |
| | L | 83.85 | 8.9 | 102 | 99200 | 10.7 | 121 | 98200 | 17.3 | 173 | 87400 | 34.6 | 282 | 71000 | 233000 |
| | L | 90.06 | 8.3 | 76 | 79800 | 10.0 | 91 | 79000 | 16.1 | 142 | 76900 | 32.2 | 273 | 73900 | 189000 |
| | L | 99.51 | 7.5 | 69 | 80300 | 9.0 | 82 | 79400 | 14.6 | 129 | 77300 | 29.1 | 248 | 74300 | 189000 |
| | L | 116.31 | 6.4 | 55 | 74700 | 7.7 | 66 | 73900 | 12.5 | 103 | 71900 | 24.9 | 196 | 68500 | 189000 |
| | L | 127.40 | 5.9 | 55 | 81800 | 7.1 | 66 | 80900 | 11.4 | 103 | 78800 | 22.8 | 196 | 75000 | 211000 |
| | L | 136.83 | 5.5 | 51 | 81800 | 6.6 | 61 | 80900 | 10.6 | 96 | 78700 | 21.2 | 184 | 75700 | 189000 |
| GBA 12014 | L | 154.43 | 4.9 | 49.1 | 85800 | 5.8 | 56 | 81300 | 9.4 | 78 | 70400 | 18.8 | 126 | 57200 | 200000 |
| | L | 170.40 | 4.4 | 67 | 130000 | 5.3 | 76 | 123000 | 8.5 | 107 | 107000 | 17.0 | 173 | 86500 | 281000 |
| | L | 198.69 | 3.8 | 59 | 134000 | 4.5 | 68 | 127000 | 7.3 | 94 | 110000 | 14.6 | 153 | 89100 | 281000 |
| | L | 218.68 | 3.4 | 44.9 | 111000 | 4.1 | 52 | 108000 | 6.6 | 78 | 99700 | 13.3 | 126 | 81000 | 233000 |
| | L | 254.98 | 2.9 | 39.4 | 114000 | 3.5 | 46.1 | 111000 | 5.7 | 69 | 103000 | 11.4 | 112 | 83500 | 233000 |
| | L | 286.99 | 2.6 | 37.7 | 123000 | 3.1 | 44.8 | 121000 | 5.1 | 70 | 118000 | 10.1 | 130 | 109000 | 281000 |
| | L | 313.06 | 2.4 | 32.3 | 115000 | 2.9 | 38.4 | 113000 | 4.6 | 58 | 106000 | 9.3 | 95 | 86800 | 233000 |
| | L | 348.92 | 2.1 | 30.2 | 120000 | 2.6 | 35.3 | 116000 | 4.2 | 53 | 108000 | 8.3 | 90 | 91700 | 233000 |
| | L | 392.73 | 1.9 | 28.1 | 125000 | 2.3 | 33.3 | 124000 | 3.7 | 52 | 120000 | 7.4 | 100 | 116000 | 281000 |
| | L | 448.44 | 1.7 | 24.8 | 126000 | 2.0 | 29.4 | 125000 | 3.2 | 46.1 | 121000 | 6.5 | 89 | 116000 | 281000 |
| | L | 504.00 | 1.5 | 22.1 | 126000 | 1.8 | 25.8 | 123000 | 2.9 | 38.7 | 114000 | 5.8 | 70 | 103000 | 233000 |
| | L | 575.50 | 1.3 | 19.8 | 129000 | 1.6 | 23.1 | 125000 | 2.5 | 34.6 | 117000 | 5.0 | 62 | 105000 | 233000 |
| | L | 635.93 | 1.2 | 16.0 | 115000 | 1.4 | 18.9 | 113000 | 2.3 | 29.6 | 110000 | 4.6 | 57 | 106000 | 233000 |
| | L | 677.65 | 1.1 | 11.7 | 106000 | 1.3 | 20.1 | 129000 | 2.1 | 30.1 | 120000 | 4.3 | 54 | 108000 | 233000 |
| | L | 794.42 | 0.94 | 17.2 | 132000 | 1.1 | 13.8 | 103000 | 1.8 | 20.7 | 96300 | 3.7 | 37.2 | 86700 | 189000 |
| L | 888.69 | 0.84 | 10.7 | 108000 | 1.0 | 12.5 | 105000 | 1.6 | 18.8 | 97900 | 3.3 | 33.9 | 88200 | 189000 | |
| GBA 12015 | L | 584.62 | 1.3 | 24.4 | 158000 | 1.5 | 28.5 | 154000 | 2.5 | 44.3 | 148000 | 5.0 | 75 | 125000 | 281000 |
| | L | 625.47 | 1.2 | 15.9 | 110000 | 1.4 | 18.5 | 107000 | 2.3 | 27.8 | 99300 | 4.6 | 48.7 | 87000 | 200000 |
| | L | 690.18 | 1.1 | 21.2 | 162000 | 1.3 | 24.8 | 157000 | 2.1 | 37.9 | 149000 | 4.2 | 67 | 132000 | 281000 |
| | L | 804.74 | 0.93 | 18.6 | 166000 | 1.1 | 21.8 | 161000 | 1.8 | 32.8 | 151000 | 3.6 | 59 | 136000 | 281000 |
| | L | 885.73 | 0.85 | 14.1 | 138000 | 1.0 | 16.4 | 134000 | 1.6 | 24.6 | 125000 | 3.3 | 44.3 | 112000 | 232000 |
| | L | 991.02 | 0.76 | 15.6 | 171000 | 0.91 | 18.2 | 166000 | 1.5 | 27.3 | 155000 | 2.9 | 51.8 | 147000 | 281000 |
| | L | 1124.31 | 0.67 | 11.2 | 139000 | 0.80 | 13.3 | 137000 | 1.3 | 20.0 | 128000 | 2.6 | 38.2 | 123000 | 281000 |
| | L | 1243.64 | 0.60 | 12.9 | 177000 | 0.72 | 15.0 | 172000 | 1.2 | 22.5 | 160000 | 2.3 | 41.8 | 149000 | 281000 |
| | L | 1413.82 | 0.53 | 9.4 | 147000 | 0.64 | 11.0 | 143000 | 1.0 | 16.5 | 133000 | 2.1 | 30.8 | 124000 | 281000 |
| | L | 1591.20 | 0.47 | 8.6 | 150000 | 0.57 | 10.0 | 146000 | 0.91 | 15.0 | 136000 | 1.8 | 27.0 | 123000 | 233000 |
| | L | 1780.36 | 0.42 | 7.4 | 145000 | 0.51 | 8.7 | 143000 | 0.81 | 13.7 | 139000 | 1.6 | 26.3 | 134000 | 281000 |
| | L | 1983.18 | 0.38 | 7.1 | 155000 | 0.45 | 8.2 | 150000 | 0.73 | 12.4 | 140000 | 1.5 | 22.4 | 127000 | 281000 |
| | L | 2237.63 | 0.34 | 5.1 | 126000 | 0.40 | 6.1 | 125000 | 0.65 | 9.5 | 121000 | 1.3 | 18.3 | 117000 | 189000 |
| | L | 2342.31 | 0.32 | 5.6 | 145000 | 0.38 | 6.6 | 143000 | 0.62 | 10.4 | 139000 | 1.2 | 19.3 | 129000 | 262000 |
| | L | 2516.97 | 0.30 | 5.6 | 157000 | 0.36 | 6.7 | 155000 | 0.58 | 10.1 | 146000 | 1.2 | 18.3 | 131000 | 233000 |
| | L | 2816.20 | 0.27 | 4.0 | 125000 | 0.32 | 4.8 | 123000 | 0.51 | 7.5 | 120000 | 1.0 | 14.4 | 115000 | 281000 |
| | L | 3161.48 | 0.24 | 3.7 | 129000 | 0.28 | 4.3 | 125000 | 0.46 | 6.5 | 117000 | 0.92 | 11.7 | 106000 | 189000 |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] | |
|-----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|--------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | | |
| GB 16001 | | 3.83 | 196 | 1956 | 93100 | 235 | 2222 | 88100 | 378 | 3103 | 76400 | — | — | — | 345000 | 109 (H-F) |
| | | 4.40 | 170 | 1746 | 95400 | 205 | 1983 | 90300 | 330 | 2770 | 78300 | — | — | — | 357000 | |
| GB 16002 | L | 14.72 | 51 | 616 | 110000 | 61 | 700 | 104000 | 99 | 977 | 90100 | — | — | — | 345000 | 66 (H-F) |
| | L | 16.90 | 44.4 | 462 | 94600 | 53 | 525 | 89500 | 86 | 733 | 77600 | — | — | — | 357000 | |
| | L | 18.16 | 41.3 | 389 | 85500 | 49.6 | 442 | 81000 | 80 | 617 | 70200 | — | — | — | 306000 | |
| | L | 20.84 | 36.0 | 389 | 98200 | 43.2 | 442 | 93000 | 70 | 617 | 80600 | — | — | — | 357000 | |
| | L | 22.78 | 32.9 | 482 | 133000 | 39.5 | 548 | 126000 | 64 | 765 | 109000 | — | — | — | 357000 | |
| GB 16003 | L | 23.93 | 31.3 | 348 | 101000 | 37.6 | 396 | 95500 | 61 | 552 | 82800 | — | — | — | 282000 | 48 (H-F) |
| | L | 50.47 | 14.9 | 233 | 139000 | 17.8 | 265 | 132000 | 28.7 | 370 | 114000 | — | — | — | 345000 | |
| | L | 57.93 | 12.9 | 217 | 149000 | 15.5 | 258 | 147000 | 25.0 | 370 | 131000 | — | — | — | 357000 | |
| | L | 64.69 | 11.6 | 137 | 104000 | 13.9 | 155 | 98900 | 22.4 | 217 | 85700 | — | — | — | 306000 | |
| | L | 69.12 | 10.9 | 184 | 150000 | 13.0 | 218 | 149000 | 21.0 | 322 | 136000 | — | — | — | 357000 | |
| | L | 78.09 | 9.6 | 164 | 151000 | 11.5 | 195 | 150000 | 18.6 | 305 | 146000 | — | — | — | 357000 | |
| | L | 88.70 | 8.5 | 145 | 152000 | 10.1 | 173 | 151000 | 16.3 | 263 | 142000 | — | — | — | 357000 | |
| | L | 106.29 | 7.1 | 102 | 128000 | 8.5 | 116 | 122000 | 13.6 | 162 | 105000 | — | — | — | 357000 | |
| | L | 123.64 | 6.1 | 98 | 142000 | 7.3 | 116 | 141000 | 11.7 | 182 | 137000 | — | — | — | 345000 | |
| GB 16004 | L | 141.91 | 5.3 | 95 | 159000 | 6.3 | 111 | 155000 | 10.2 | 174 | 151000 | — | — | — | 357000 | 37 (H-F) |
| | L | 164.06 | 4.6 | 59 | 114000 | 5.5 | 70 | 113000 | 8.8 | 110 | 110000 | — | — | — | 282000 | |
| | L | 181.69 | 4.1 | 82 | 172000 | 5.0 | 93 | 162000 | 8.0 | 130 | 141000 | 16.0 | 211 | 114000 | 345000 | |
| | L | 208.54 | 3.6 | 70 | 168000 | 4.3 | 82 | 163000 | 7.0 | 124 | 154000 | 13.9 | 211 | 131000 | 357000 | |
| | L | 222.87 | 3.4 | 51 | 131000 | 4.0 | 58 | 124000 | 6.5 | 81 | 107000 | 13.0 | 131 | 87100 | 345000 | |
| | L | 255.93 | 2.9 | 68 | 201000 | 3.5 | 80 | 195000 | 5.7 | 114 | 174000 | 11.3 | 185 | 141000 | 345000 | |
| | L | 281.13 | 2.7 | 52 | 170000 | 3.2 | 62 | 168000 | 5.2 | 95 | 159000 | 10.3 | 180 | 150000 | 357000 | |
| | L | 319.33 | 2.3 | 49.0 | 179000 | 2.8 | 57 | 174000 | 4.5 | 85 | 162000 | 9.1 | 160 | 152000 | 357000 | |
| | L | 359.16 | 2.1 | 41.0 | 169000 | 2.5 | 48.6 | 167000 | 4.0 | 76 | 163000 | 8.1 | 137 | 147000 | 357000 | |
| | L | 396.00 | 1.9 | 33.2 | 151000 | 2.3 | 39.4 | 150000 | 3.7 | 62 | 146000 | 7.3 | 112 | 132000 | 350000 | |
| | L | 451.75 | 1.7 | 29.4 | 153000 | 2.0 | 34.8 | 151000 | 3.2 | 55 | 147000 | 6.4 | 98 | 132000 | 357000 | |
| | L | 496.94 | 1.5 | 30.6 | 176000 | 1.8 | 36.5 | 174000 | 2.9 | 57 | 169000 | 5.8 | 106 | 156000 | 357000 | |
| | L | 561.47 | 1.3 | 25.2 | 163000 | 1.6 | 30.0 | 162000 | 2.6 | 47.0 | 157000 | 5.2 | 90 | 151000 | 357000 | |
| | L | 637.74 | 1.2 | 24.4 | 178000 | 1.4 | 28.8 | 176000 | 2.3 | 45.1 | 171000 | 4.5 | 85 | 162000 | 357000 | |
| | L | 698.82 | 1.1 | 22.3 | 180000 | 1.3 | 26.4 | 177000 | 2.1 | 41.4 | 172000 | 4.1 | 79 | 164000 | 357000 | |
| L | 797.21 | 0.94 | 18.1 | 166000 | 1.1 | 21.2 | 162000 | 1.8 | 31.9 | 152000 | 3.6 | 61 | 146000 | 357000 | | |
| GB 16005 | L | 896.82 | 0.84 | 18.1 | 187000 | 1.0 | 21.1 | 182000 | 1.6 | 32.7 | 175000 | 3.2 | 63 | 168000 | 357000 | 31 (H-F) |
| | L | 1064.36 | 0.70 | 15.6 | 192000 | 0.85 | 18.3 | 187000 | 1.4 | 27.8 | 177000 | 2.7 | 54 | 170000 | 357000 | |
| | L | 1241.76 | 0.60 | 8.3 | 118000 | 0.72 | 9.6 | 115000 | 1.2 | 14.5 | 107000 | 2.3 | 27.8 | 103000 | 247000 | |
| | L | 632.27 | 1.2 | 29.3 | 208000 | 1.4 | 33.3 | 197000 | 2.3 | 46.4 | 171000 | 4.6 | 76 | 139000 | 345000 | |
| | L | 725.74 | 1.0 | 25.0 | 203000 | 1.2 | 29.1 | 197000 | 2.0 | 43.5 | 184000 | 4.0 | 76 | 159000 | 357000 | |
| | L | 804.82 | 0.93 | 18.9 | 171000 | 1.1 | 22.5 | 169000 | 1.8 | 33.7 | 158000 | 3.6 | 55 | 128000 | 345000 | |
| | L | 890.63 | 0.84 | 23.6 | 236000 | 1.0 | 27.6 | 230000 | 1.6 | 41.3 | 214000 | 3.3 | 76 | 195000 | 345000 | |
| | L | 978.32 | 0.77 | 17.2 | 189000 | 0.92 | 20.1 | 184000 | 1.5 | 31.0 | 176000 | 3.0 | 59 | 169000 | 357000 | |
| | L | 1117.65 | 0.67 | 17.8 | 223000 | 0.81 | 21.2 | 221000 | 1.3 | 33.1 | 215000 | 2.6 | 63 | 204000 | 345000 | |
| | L | 1252.35 | 0.60 | 15.6 | 220000 | 0.72 | 18.3 | 214000 | 1.2 | 27.4 | 199000 | 2.3 | 49.4 | 180000 | 357000 | |
| | L | 1414.88 | 0.53 | 12.6 | 200000 | 0.64 | 14.7 | 195000 | 1.0 | 22.0 | 181000 | 2.0 | 42.0 | 172000 | 357000 | |
| L | 1595.75 | 0.47 | 10.1 | 180000 | 0.56 | 11.8 | 177000 | 0.91 | 18.6 | 172000 | 1.8 | 35.7 | 165000 | 357000 | | |
| L | 1782.44 | 0.42 | 11.0 | 221000 | 0.50 | 13.1 | 219000 | 0.81 | 20.3 | 210000 | 1.6 | 36.6 | 189000 | 357000 | | |
| L | 2003.10 | 0.37 | 8.6 | 193000 | 0.45 | 10.2 | 191000 | 0.72 | 16.0 | 186000 | 1.4 | 30.7 | 179000 | 345000 | | |
| L | 2224.48 | 0.34 | 8.6 | 214000 | 0.40 | 10.2 | 212000 | 0.65 | 16.0 | 206000 | 1.3 | 30.4 | 196000 | 357000 | | |
| L | 2510.41 | 0.30 | 6.8 | 193000 | 0.36 | 8.0 | 188000 | 0.58 | 12.1 | 176000 | 1.2 | 23.3 | 170000 | 357000 | | |
| L | 2809.54 | 0.27 | 6.1 | 190000 | 0.32 | 7.0 | 185000 | 0.52 | 11.0 | 180000 | 1.0 | 20.1 | 164000 | 357000 | | |
| L | 3172.87 | 0.24 | 6.7 | 240000 | 0.28 | 7.9 | 234000 | 0.46 | 12.0 | 221000 | 0.91 | 22.5 | 207000 | 357000 | | |

| | | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] | |
|------------------|----|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|-------------|
| | ie | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | | |
| GBA 16003 | L | 47.84 | 15.7 | 211 | 117000 | 18.8 | 240 | 111000 | 30.3 | 335 | 96300 | 61 | 544 | 78200 | 338000 | 42 (H-F) |
| | L | 54.91 | 13.7 | 211 | 135000 | 16.4 | 240 | 127000 | 26.4 | 335 | 111000 | 53 | 544 | 89800 | 356000 | |
| | | 64.49 | 11.6 | 183 | 137000 | 14.0 | 217 | 136000 | 22.5 | 341 | 132000 | 45.0 | 568 | 110000 | 338000 | |
| | | 74.02 | 10.1 | 175 | 151000 | 12.2 | 208 | 149000 | 19.6 | 326 | 145000 | 39.2 | 568 | 126000 | 356000 | |
| | L | 77.76 | 9.6 | 121 | 110000 | 11.6 | 144 | 109000 | 18.6 | 226 | 106000 | 37.3 | 410 | 95700 | 282000 | |
| | L | 92.40 | 8.1 | 89 | 95600 | 9.7 | 106 | 95000 | 15.7 | 166 | 92000 | 31.4 | 319 | 88500 | 247000 | |
| GBA 16004 | | 155.01 | 4.8 | 106 | 186000 | 5.8 | 124 | 181000 | 9.4 | 176 | 160000 | 18.7 | 285 | 130000 | 338000 | 35 (H-F) |
| | | 184.96 | 4.1 | 91 | 191000 | 4.9 | 106 | 186000 | 7.8 | 153 | 166000 | 15.7 | 248 | 135000 | 338000 | |
| | | 212.30 | 3.5 | 70 | 169000 | 4.2 | 82 | 164000 | 6.8 | 124 | 154000 | 13.7 | 238 | 148000 | 356000 | |
| | L | 220.47 | 3.4 | 51 | 128000 | 4.1 | 61 | 127000 | 6.6 | 94 | 122000 | 13.2 | 153 | 98900 | 306000 | |
| | | 249.33 | 3.0 | 52 | 148000 | 3.6 | 62 | 147000 | 5.8 | 98 | 143000 | 11.6 | 188 | 137000 | 338000 | |
| | | 281.02 | 2.7 | 57 | 180000 | 3.2 | 67 | 179000 | 5.2 | 105 | 174000 | 10.3 | 185 | 153000 | 338000 | |
| | | 317.49 | 2.4 | 41.8 | 150000 | 2.8 | 49.6 | 149000 | 4.6 | 78 | 145000 | 9.1 | 149 | 139000 | 338000 | |
| | | 360.64 | 2.1 | 43.5 | 178000 | 2.5 | 52 | 176000 | 4.0 | 81 | 171000 | 8.0 | 151 | 160000 | 338000 | |
| | | 413.95 | 1.8 | 39.7 | 186000 | 2.2 | 46.4 | 181000 | 3.5 | 70 | 169000 | 7.0 | 127 | 154000 | 356000 | |
| | | 435.88 | 1.7 | 35.3 | 174000 | 2.1 | 41.9 | 172000 | 3.3 | 66 | 168000 | 6.7 | 121 | 154000 | 356000 | |
| | | 491.28 | 1.5 | 29.1 | 162000 | 1.8 | 34.6 | 160000 | 3.0 | 54 | 156000 | 5.9 | 104 | 150000 | 356000 | |
| | | 558.02 | 1.3 | 27.9 | 177000 | 1.6 | 33.2 | 175000 | 2.6 | 52 | 170000 | 5.2 | 97 | 159000 | 356000 | |
| | | 662.27 | 1.1 | 23.8 | 178000 | 1.4 | 28.2 | 177000 | 2.2 | 44.3 | 172000 | 4.4 | 84 | 163000 | 356000 | |
| GBA 16005 | | 506.13 | 1.5 | 29.2 | 163000 | 1.8 | 33.2 | 155000 | 2.9 | 46.4 | 134000 | 5.7 | 75 | 109000 | 338000 | 27 (H-F) |
| | | 580.95 | 1.3 | 29.2 | 188000 | 1.5 | 33.2 | 178000 | 2.5 | 46.4 | 154000 | 5.0 | 75 | 125000 | 356000 | |
| | L | 620.85 | 1.2 | 24.6 | 168000 | 1.4 | 29.2 | 167000 | 2.3 | 41.1 | 146000 | 4.7 | 67 | 118000 | 338000 | |
| | | 712.94 | 1.1 | 29.0 | 229000 | 1.3 | 33.2 | 218000 | 2.0 | 46.4 | 189000 | 4.1 | 75 | 153000 | 338000 | |
| | | 783.14 | 0.96 | 21.2 | 183000 | 1.1 | 24.7 | 178000 | 1.9 | 38.8 | 173000 | 3.7 | 75 | 167000 | 356000 | |
| | | 894.67 | 0.84 | 22.3 | 221000 | 1.0 | 26.5 | 218000 | 1.6 | 41.5 | 212000 | 3.2 | 75 | 193000 | 338000 | |
| | | 995.33 | 0.75 | 19.4 | 213000 | 0.90 | 22.6 | 207000 | 1.5 | 33.9 | 193000 | 2.9 | 55.7 | 158000 | 356000 | |
| | | 1124.51 | 0.67 | 15.6 | 193000 | 0.80 | 18.2 | 188000 | 1.3 | 27.6 | 177000 | 2.6 | 53.0 | 170000 | 356000 | |
| | L | 1258.45 | 0.60 | 12.8 | 178000 | 0.72 | 15.0 | 173000 | 1.2 | 22.4 | 161000 | 2.3 | 41.6 | 150000 | 356000 | |
| | | 1415.70 | 0.53 | 12.8 | 200000 | 0.64 | 14.9 | 195000 | 1.0 | 22.4 | 181000 | 2.0 | 42.6 | 172000 | 356000 | |
| | L | 1584.00 | 0.47 | 10.5 | 185000 | 0.57 | 12.3 | 180000 | 0.92 | 18.5 | 167000 | 1.8 | 33.5 | 152000 | 356000 | |
| | | 1776.56 | 0.42 | 10.6 | 207000 | 0.51 | 12.3 | 202000 | 0.82 | 18.5 | 188000 | 1.6 | 34.4 | 175000 | 356000 | |
| | | 1987.76 | 0.38 | 9.6 | 211000 | 0.45 | 11.2 | 205000 | 0.73 | 16.8 | 191000 | 1.5 | 31.0 | 176000 | 356000 | |
| | | 2245.87 | 0.33 | 7.1 | 177000 | 0.40 | 8.5 | 175000 | 0.65 | 13.3 | 170000 | 1.3 | 25.5 | 164000 | 356000 | |
| | | 2498.29 | 0.30 | 7.9 | 218000 | 0.36 | 9.2 | 212000 | 0.58 | 13.8 | 197000 | 1.2 | 25.0 | 178000 | 356000 | |
| | | 2795.29 | 0.27 | 7.2 | 222000 | 0.32 | 8.4 | 216000 | 0.52 | 12.6 | 201000 | 1.0 | 22.6 | 181000 | 356000 | |
| | | 3158.25 | 0.24 | 5.3 | 185000 | 0.28 | 6.2 | 180000 | 0.46 | 9.6 | 174000 | 0.92 | 18.5 | 167000 | 356000 | |
| | L | 3544.35 | 0.21 | 3.5 | 137000 | 0.25 | 4.1 | 135000 | 0.41 | 6.5 | 131000 | 0.82 | 12.5 | 126000 | 338000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 21001 | 3.68 | 204 | 2071 | 94600 | 245 | 2353 | 89600 | 394 | 3285 | 77600 | — | — | — | 406000 | 133 (H-F) |
| | 4.94 | 152 | 1627 | 99800 | 182 | 1848 | 94500 | 293 | 2581 | 81900 | — | — | — | 361000 | |
| | 5.79* | 129 | 1111 | 77426 | 155 | 1262 | 73305 | 250 | 1763 | 63533 | — | — | — | 215000 | |
| GB 21002 | 15.25 | 49.2 | 591 | 109000 | 59 | 672 | 103000 | 95 | 938 | 89500 | — | — | — | 406000 | 78 (H-F) |
| | 20.47 | 36.6 | 565 | 140000 | 44.0 | 671 | 138000 | 71 | 938 | 120000 | — | — | — | 361000 | |
| | 23.92 | 31.4 | 393 | 114000 | 37.6 | 464 | 112000 | 61 | 648 | 97100 | — | — | — | 314000 | |
| | 26.68 | 28.1 | 440 | 142000 | 33.7 | 522 | 141000 | 54 | 759 | 127000 | — | — | — | 361000 | |
| | 32.12 | 23.4 | 369 | 144000 | 28.0 | 439 | 142000 | 45.1 | 648 | 130000 | — | — | — | 361000 | |
| GB 21003 | 58.44 | 12.8 | 237 | 163000 | 15.4 | 269 | 155000 | 24.8 | 375 | 134000 | — | — | — | 406000 | 56 (H-F) |
| | 80.04 | 9.4 | 190 | 179000 | 11.2 | 216 | 170000 | 18.1 | 301 | 147000 | — | — | — | 406000 | |
| | 91.69 | 8.2 | 114 | 123000 | 9.8 | 135 | 122000 | 15.8 | 211 | 118000 | — | — | — | 314000 | |
| | 102.28 | 7.3 | 127 | 153000 | 8.8 | 151 | 152000 | 14.2 | 237 | 148000 | — | — | — | 361000 | |
| | 107.47 | 7.0 | 121 | 154000 | 8.4 | 144 | 152000 | 13.5 | 226 | 148000 | — | — | — | 361000 | |
| | 123.12 | 6.1 | 107 | 155000 | 7.3 | 127 | 153000 | 11.8 | 199 | 149000 | — | — | — | 361000 | |
| | 140.08 | 5.4 | 94 | 156000 | 6.4 | 112 | 155000 | 10.4 | 176 | 150000 | — | — | — | 361000 | |
| GB 21004 | 233.77 | 3.2 | 79 | 212000 | 3.8 | 94 | 210000 | 6.2 | 146 | 203000 | 12.4 | 237 | 165000 | 406000 | 44 (H-F) |
| | 265.65 | 2.8 | 70 | 214000 | 3.4 | 83 | 212000 | 5.5 | 130 | 206000 | 10.9 | 217 | 171000 | 406000 | |
| | 313.88 | 2.4 | 48.8 | 176000 | 2.9 | 57 | 171000 | 4.6 | 85 | 160000 | 9.2 | 162 | 151000 | 361000 | |
| | 356.68 | 2.1 | 43.8 | 180000 | 2.5 | 51 | 175000 | 4.1 | 77 | 163000 | 8.1 | 144 | 153000 | 361000 | |
| | 409.13 | 1.8 | 39.0 | 183000 | 2.2 | 45.5 | 178000 | 3.5 | 68 | 166000 | 7.1 | 126 | 154000 | 361000 | |
| | 464.92 | 1.6 | 35.0 | 187000 | 1.9 | 40.8 | 182000 | 3.1 | 61 | 169000 | 6.2 | 112 | 155000 | 361000 | |
| | 502.32 | 1.5 | 23.4 | 135000 | 1.8 | 27.8 | 134000 | 2.9 | 43.6 | 130000 | 5.8 | 84 | 125000 | 314000 | |
| | 560.33 | 1.3 | 29.8 | 192000 | 1.6 | 34.8 | 187000 | 2.6 | 52 | 174000 | 5.2 | 94 | 157000 | 361000 | |
| | 636.74 | 1.2 | 26.8 | 196000 | 1.4 | 31.3 | 191000 | 2.3 | 46.8 | 178000 | 4.6 | 84 | 160000 | 361000 | |
| | 766.44 | 0.98 | 20.9 | 184000 | 1.2 | 24.7 | 181000 | 1.9 | 38.7 | 176000 | 3.8 | 72 | 164000 | 361000 | |
| GB 21005 | 841.56 | 0.89 | 26.6 | 251000 | 1.1 | 31.0 | 244000 | 1.7 | 46.5 | 227000 | 3.4 | 87 | 212000 | 406000 | 36 (H-F) |
| | 993.51 | 0.75 | 23.1 | 257000 | 0.91 | 27.0 | 250000 | 1.5 | 40.4 | 233000 | 2.9 | 74 | 214000 | 406000 | |
| | 1128.99 | 0.66 | 20.7 | 262000 | 0.80 | 24.2 | 255000 | 1.3 | 36.2 | 237000 | 2.6 | 66 | 215000 | 406000 | |
| | 1246.76 | 0.60 | 19.0 | 266000 | 0.72 | 22.2 | 259000 | 1.2 | 33.3 | 241000 | 2.3 | 60 | 217000 | 406000 | |
| | 1416.77 | 0.53 | 17.1 | 272000 | 0.64 | 19.9 | 264000 | 1.0 | 29.9 | 246000 | 2.0 | 54 | 221000 | 406000 | |
| | 1625.09 | 0.46 | 11.9 | 218000 | 0.55 | 13.9 | 212000 | 0.89 | 20.9 | 197000 | 1.8 | 37.8 | 178000 | 406000 | |
| | 1773.58 | 0.42 | 11.1 | 221000 | 0.51 | 12.9 | 215000 | 0.82 | 19.4 | 200000 | 1.6 | 34.9 | 180000 | 406000 | |
| | 1992.34 | 0.38 | 12.8 | 286000 | 0.45 | 14.9 | 278000 | 0.73 | 22.4 | 259000 | 1.5 | 40.3 | 233000 | 406000 | |
| | 2255.67 | 0.33 | 10.5 | 266000 | 0.40 | 12.5 | 263000 | 0.64 | 19.5 | 256000 | 1.3 | 36.3 | 237000 | 406000 | |
| | 2536.60 | 0.30 | 8.5 | 242000 | 0.35 | 9.9 | 235000 | 0.57 | 14.9 | 219000 | 1.1 | 26.8 | 197000 | 361000 | |
| | 2882.50 | 0.26 | 7.6 | 247000 | 0.31 | 8.9 | 240000 | 0.50 | 13.3 | 223000 | 1.0 | 24.0 | 201000 | 361000 | |
| | 3129.84 | 0.24 | 6.8 | 240000 | 0.29 | 8.0 | 234000 | 0.46 | 12.0 | 218000 | 0.93 | 21.6 | 196000 | 406000 | |

* GB 18001

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 21003 | 49.55 | 15.1 | 239 | 137000 | 18.2 | 280 | 134000 | 29.3 | 391 | 116000 | 59 | 634 | 94500 | 351000 | 49 (H-F) |
| | 66.53 | 11.3 | 194 | 150000 | 13.5 | 230 | 148000 | 21.8 | 360 | 144000 | 43.6 | 634 | 127000 | 361000 | |
| | 77.74 | 9.6 | 135 | 122000 | 11.6 | 160 | 120000 | 18.7 | 251 | 117000 | 37.3 | 481 | 112000 | 314000 | |
| | 86.72 | 8.6 | 151 | 152000 | 10.4 | 179 | 150000 | 16.7 | 281 | 146000 | 33.4 | 540 | 141000 | 361000 | |
| | 104.38 | 7.2 | 127 | 154000 | 8.6 | 150 | 152000 | 13.9 | 236 | 148000 | 27.8 | 453 | 142000 | 361000 | |
| GBA 21004 | 179.50 | 4.2 | 103 | 209000 | 5.0 | 122 | 207000 | 8.1 | 178 | 187000 | 16.2 | 289 | 152000 | 351000 | 40 (H-F) |
| | 233.97 | 3.2 | 65 | 172000 | 3.8 | 77 | 170000 | 6.2 | 121 | 166000 | 12.4 | 233 | 159000 | 351000 | |
| | 245.84 | 3.1 | 77 | 213000 | 3.7 | 91 | 211000 | 5.9 | 142 | 205000 | 11.8 | 232 | 167000 | 351000 | |
| | 272.73 | 2.7 | 57 | 175000 | 3.3 | 67 | 173000 | 5.3 | 105 | 169000 | 10.6 | 201 | 161000 | 351000 | |
| | 314.15 | 2.4 | 49.5 | 176000 | 2.9 | 58 | 171000 | 4.6 | 87 | 160000 | 9.2 | 164 | 151000 | 361000 | |
| | 355.49 | 2.1 | 43.8 | 176000 | 2.5 | 52 | 175000 | 4.1 | 82 | 170000 | 8.2 | 157 | 163000 | 351000 | |
| | 385.71 | 1.9 | 30.5 | 133000 | 2.4 | 48.8 | 174000 | 3.8 | 74 | 164000 | 7.5 | 109 | 123000 | 314000 | |
| | 430.25 | 1.7 | 37.9 | 185000 | 2.1 | 44.3 | 180000 | 3.4 | 66 | 167000 | 6.7 | 122 | 154000 | 361000 | |
| | 501.53 | 1.5 | 33.3 | 189000 | 1.8 | 38.9 | 184000 | 2.9 | 58 | 171000 | 5.8 | 106 | 156000 | 361000 | |
| | 574.55 | 1.3 | 27.7 | 180000 | 1.6 | 32.9 | 178000 | 2.5 | 52 | 174000 | 5.0 | 93 | 157000 | 361000 | |
| | 653.72 | 1.1 | 26.6 | 197000 | 1.4 | 31.0 | 192000 | 2.2 | 46.5 | 178000 | 4.4 | 84 | 161000 | 361000 | |
| | 786.88 | 1.0 | 20.7 | 185000 | 1.1 | 24.4 | 182000 | 1.8 | 38.3 | 177000 | 3.7 | 72 | 165000 | 361000 | |
| GBA 21005 | 651.21 | 1.2 | 29.2 | 210000 | 1.4 | 33.2 | 199000 | 2.2 | 46.4 | 173000 | 4.5 | 75 | 140000 | 351000 | 32 (H-F) |
| | 740.01 | 1.0 | 29.2 | 239000 | 1.2 | 33.2 | 226000 | 2.0 | 46.4 | 196000 | 3.9 | 75 | 159000 | 351000 | |
| | 891.87 | 0.84 | 25.6 | 252000 | 1.0 | 30.0 | 246000 | 1.6 | 45.0 | 229000 | 3.3 | 75 | 192000 | 351000 | |
| | 993.62 | 0.75 | 19.1 | 210000 | 0.91 | 22.3 | 204000 | 1.5 | 33.4 | 190000 | 2.9 | 60 | 171000 | 361000 | |
| | 1139.72 | 0.66 | 17.0 | 214000 | 0.79 | 19.9 | 208000 | 1.3 | 29.8 | 194000 | 2.5 | 54 | 175000 | 361000 | |
| | 1255.53 | 0.60 | 15.7 | 217000 | 0.72 | 18.3 | 211000 | 1.2 | 27.4 | 197000 | 2.3 | 49.4 | 177000 | 361000 | |
| | 1426.74 | 0.53 | 14.1 | 222000 | 0.63 | 16.4 | 216000 | 1.0 | 24.6 | 201000 | 2.0 | 44.3 | 181000 | 361000 | |
| | 1560.92 | 0.48 | 13.0 | 225000 | 0.58 | 15.2 | 219000 | 0.93 | 22.8 | 203000 | 1.9 | 41.1 | 183000 | 361000 | |
| | 1773.77 | 0.42 | 11.7 | 229000 | 0.51 | 13.6 | 223000 | 0.82 | 20.5 | 207000 | 1.6 | 36.8 | 187000 | 361000 | |
| | 1969.88 | 0.38 | 9.8 | 212000 | 0.46 | 11.4 | 206000 | 0.74 | 17.1 | 192000 | 1.5 | 31.8 | 179000 | 361000 | |
| | 2241.32 | 0.33 | 9.6 | 237000 | 0.40 | 11.2 | 231000 | 0.65 | 16.8 | 215000 | 1.3 | 30.2 | 193000 | 361000 | |
| | 2546.95 | 0.29 | 8.6 | 242000 | 0.35 | 10.0 | 235000 | 0.57 | 15.0 | 219000 | 1.1 | 27.1 | 197000 | 361000 | |
| | 3065.78 | 0.24 | 6.7 | 227000 | 0.29 | 7.8 | 221000 | 0.47 | 11.7 | 205000 | 0.95 | 21.1 | 185000 | 361000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 26001 | 3.68 | 204 | 2405 | 110000 | 245 | 2733 | 104000 | 394 | 3816 | 90200 | — | — | — | 540000 | 136 (H-F) |
| | 4.94 | 152 | 1890 | 116000 | 182 | 2147 | 110000 | 293 | 2998 | 95100 | — | — | — | 414000 | |
| GB 26002 | 14.72 | 51 | 810 | 144000 | 61 | 920 | 137000 | 99 | 1284 | 118000 | — | — | — | 540000 | 85 (H-F) |
| | 17.17 | 43.7 | 714 | 148000 | 52 | 811 | 140000 | 84 | 1132 | 122000 | — | — | — | 540000 | |
| | 19.76 | 37.9 | 670 | 160000 | 45.5 | 796 | 159000 | 73 | 1165 | 144000 | — | — | — | 414000 | |
| | 23.06 | 32.5 | 580 | 162000 | 39.0 | 688 | 160000 | 63 | 1046 | 151000 | — | — | — | 414000 | |
| GB 26003 | 58.88 | 12.7 | 315 | 219000 | 15.3 | 357 | 207000 | 24.6 | 499 | 179000 | — | — | — | 540000 | 61 (H-F) |
| | 69.27 | 10.8 | 281 | 230000 | 13.0 | 319 | 217000 | 20.9 | 445 | 188000 | — | — | — | 540000 | |
| | 80.82 | 9.3 | 244 | 233000 | 11.1 | 281 | 224000 | 17.9 | 393 | 194000 | — | — | — | 540000 | |
| | 92.24 | 8.1 | 161 | 175000 | 9.8 | 191 | 173000 | 15.7 | 300 | 169000 | — | — | — | 414000 | |
| | 108.51 | 6.9 | 138 | 177000 | 8.3 | 164 | 175000 | 13.4 | 257 | 170000 | — | — | — | 414000 | |
| GB 26004 | 209.76 | 3.6 | 110 | 264000 | 4.3 | 128 | 257000 | 6.9 | 192 | 239000 | 13.8 | 342 | 213000 | 540000 | 48 (H-F) |
| | 246.78 | 3.0 | 95 | 271000 | 3.6 | 111 | 264000 | 5.9 | 167 | 245000 | 11.8 | 305 | 224000 | 540000 | |
| | 287.74 | 2.6 | 84 | 277000 | 3.1 | 98 | 270000 | 5.0 | 147 | 251000 | 10.1 | 271 | 232000 | 540000 | |
| | 328.40 | 2.3 | 54 | 204000 | 2.7 | 63 | 198000 | 4.4 | 94 | 184000 | 8.8 | 178 | 174000 | 414000 | |
| | 353.28 | 2.1 | 70 | 286000 | 2.5 | 82 | 278000 | 4.1 | 123 | 259000 | 8.2 | 223 | 234000 | 540000 | |
| | 400.04 | 1.9 | 59 | 273000 | 2.2 | 71 | 271000 | 3.6 | 111 | 263000 | 7.2 | 200 | 238000 | 540000 | |
| | 450.74 | 1.7 | 41.2 | 214000 | 2.0 | 48.1 | 208000 | 3.2 | 72 | 194000 | 6.4 | 132 | 177000 | 414000 | |
| | 554.16 | 1.4 | 44.2 | 282000 | 1.6 | 52 | 276000 | 2.6 | 81 | 268000 | 5.2 | 151 | 250000 | 540000 | |
| | 631.92 | 1.2 | 30.9 | 225000 | 1.4 | 36.1 | 219000 | 2.3 | 54 | 204000 | 4.6 | 98 | 183000 | 414000 | |
| | 744.08 | 1.0 | 26.9 | 231000 | 1.2 | 31.4 | 224000 | 1.9 | 47.1 | 209000 | 3.9 | 85 | 188000 | 414000 | |
| GB 26005 | 755.14 | 0.99 | 37.9 | 321000 | 1.2 | 44.2 | 312000 | 1.9 | 66 | 290000 | 3.8 | 119 | 262000 | 540000 | 40 (H-F) |
| | 891.48 | 0.84 | 32.9 | 329000 | 1.0 | 38.4 | 320000 | 1.6 | 58 | 298000 | 3.3 | 104 | 268000 | 540000 | |
| | 1013.93 | 0.74 | 21.2 | 242000 | 0.89 | 24.8 | 235000 | 1.4 | 37.2 | 219000 | 2.9 | 67 | 197000 | 414000 | |
| | 1118.72 | 0.67 | 27.1 | 341000 | 0.80 | 31.7 | 331000 | 1.3 | 47.5 | 308000 | 2.6 | 86 | 278000 | 540000 | |
| | 1261.21 | 0.59 | 22.6 | 319000 | 0.71 | 26.4 | 311000 | 1.1 | 39.5 | 289000 | 2.3 | 74 | 270000 | 540000 | |
| | 1426.71 | 0.53 | 20.3 | 325000 | 0.63 | 23.7 | 317000 | 1.0 | 35.6 | 295000 | 2.0 | 66 | 272000 | 540000 | |
| | 1601.54 | 0.47 | 20.0 | 360000 | 0.56 | 23.4 | 350000 | 0.91 | 35.0 | 325000 | 1.8 | 63 | 293000 | 540000 | |
| | 1783.98 | 0.42 | 18.3 | 366000 | 0.50 | 21.3 | 356000 | 0.81 | 32.0 | 331000 | 1.6 | 58 | 298000 | 540000 | |
| | 1994.99 | 0.38 | 15.3 | 342000 | 0.45 | 17.9 | 333000 | 0.73 | 26.8 | 310000 | 1.5 | 48.2 | 279000 | 540000 | |
| | 2252.16 | 0.33 | 15.0 | 379000 | 0.40 | 17.5 | 368000 | 0.64 | 26.2 | 343000 | 1.3 | 47.2 | 309000 | 540000 | |
| | 2503.24 | 0.30 | 12.7 | 356000 | 0.36 | 15.0 | 352000 | 0.58 | 23.6 | 342000 | 1.2 | 43.2 | 314000 | 540000 | |
| | 2854.49 | 0.26 | 8.8 | 283000 | 0.32 | 10.3 | 275000 | 0.51 | 15.4 | 256000 | 1.0 | 27.8 | 230000 | 414000 | |
| | 3091.20 | 0.24 | 10.5 | 366000 | 0.29 | 12.3 | 356000 | 0.47 | 18.5 | 331000 | 0.94 | 33.2 | 298000 | 540000 | |
| | 3532.80 | 0.21 | 9.4 | 373000 | 0.25 | 11.0 | 363000 | 0.41 | 16.5 | 338000 | 0.82 | 29.7 | 304000 | 540000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 26003 | 55.81 | 13.4 | 239 | 155000 | 16.1 | 280 | 151000 | 26.0 | 391 | 131000 | 52 | 634 | 106000 | 396000 | 49 (H-F) |
| | 64.24 | 11.7 | 230 | 172000 | 14.0 | 273 | 170000 | 22.6 | 391 | 151000 | 45.1 | 634 | 122000 | 414000 | |
| | 74.94 | 10.0 | 199 | 173000 | 12.0 | 236 | 171000 | 19.3 | 370 | 167000 | 38.7 | 634 | 143000 | 414000 | |
| GBA 26004 | 180.85 | 4.1 | 112 | 230000 | 5.0 | 127 | 218000 | 8.0 | 178 | 189000 | 16.0 | 289 | 153000 | 540000 | 42 (H-F) |
| | 212.76 | 3.5 | 110 | 265000 | 4.2 | 127 | 256000 | 6.8 | 178 | 222000 | 13.6 | 289 | 180000 | 540000 | |
| | 248.22 | 3.0 | 95 | 266000 | 3.6 | 112 | 263000 | 5.8 | 169 | 245000 | 11.7 | 289 | 210000 | 540000 | |
| | 285.67 | 2.6 | 62 | 200000 | 3.2 | 72 | 194000 | 5.1 | 108 | 181000 | 10.2 | 207 | 173000 | 414000 | |
| | 320.57 | 2.3 | 57 | 206000 | 2.8 | 67 | 204000 | 4.5 | 105 | 198000 | 9.0 | 201 | 189000 | 540000 | |
| | 368.94 | 2.0 | 50 | 207000 | 2.4 | 58 | 202000 | 3.9 | 87 | 188000 | 7.9 | 162 | 175000 | 414000 | |
| | 434.05 | 1.7 | 43.2 | 213000 | 2.1 | 50 | 207000 | 3.3 | 76 | 192000 | 6.7 | 139 | 177000 | 414000 | |
| | 506.39 | 1.5 | 37.9 | 218000 | 1.8 | 44.3 | 212000 | 2.9 | 66 | 197000 | 5.7 | 120 | 179000 | 414000 | |
| GBA 26005 | 613.14 | 1.2 | 45.9 | 311000 | 1.5 | 54 | 303000 | 2.4 | 80 | 281000 | 4.7 | 145 | 253000 | 540000 | 36 (H-F) |
| | 714.92 | 1.0 | 40.3 | 318000 | 1.3 | 47.0 | 310000 | 2.0 | 71 | 288000 | 4.1 | 127 | 259000 | 540000 | |
| | 834.08 | 0.90 | 32.6 | 300000 | 1.1 | 38.0 | 292000 | 1.7 | 58 | 275000 | 3.5 | 111 | 264000 | 540000 | |
| | 877.76 | 0.85 | 33.9 | 328000 | 1.0 | 39.5 | 319000 | 1.7 | 59 | 297000 | 3.3 | 107 | 268000 | 540000 | |
| | 987.11 | 0.76 | 30.7 | 334000 | 0.91 | 35.8 | 325000 | 1.5 | 54 | 303000 | 2.9 | 97 | 272000 | 540000 | |
| | 1119.92 | 0.67 | 19.8 | 245000 | 0.80 | 23.2 | 239000 | 1.3 | 34.7 | 222000 | 2.6 | 62 | 200000 | 414000 | |
| | 1201.15 | 0.62 | 25.9 | 344000 | 0.75 | 30.3 | 335000 | 1.2 | 45.4 | 312000 | 2.4 | 82 | 281000 | 540000 | |
| | 1413.12 | 0.53 | 22.6 | 353000 | 0.64 | 26.4 | 343000 | 1.0 | 39.6 | 319000 | 2.1 | 71 | 288000 | 540000 | |
| | 1600.15 | 0.47 | 18.7 | 331000 | 0.56 | 21.9 | 322000 | 0.91 | 32.8 | 300000 | 1.8 | 60 | 274000 | 540000 | |
| | 1802.97 | 0.42 | 13.2 | 264000 | 0.50 | 15.5 | 257000 | 0.80 | 23.2 | 239000 | 1.6 | 41.7 | 215000 | 414000 | |
| | 1899.99 | 0.39 | 17.6 | 369000 | 0.47 | 20.5 | 359000 | 0.76 | 30.8 | 334000 | 1.5 | 55 | 301000 | 540000 | |
| | 2216.66 | 0.34 | 14.2 | 348000 | 0.41 | 16.6 | 338000 | 0.65 | 24.9 | 315000 | 1.3 | 44.8 | 283000 | 540000 | |
| | 2527.69 | 0.30 | 9.9 | 278000 | 0.36 | 11.6 | 270000 | 0.57 | 17.4 | 251000 | 1.1 | 31.3 | 226000 | 414000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------------|-----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 31001 | 3.43 | 219 | 3309 | 141000 | 263 | 3760 | 133000 | — | — | — | — | — | — | 549000 | 214 (H-F) |
| | 4.09 | 183 | 2891 | 147000 | 220 | 3285 | 139000 | — | — | — | — | — | — | 650000 | |
| | 5.25 | 143 | 2357 | 154000 | 171 | 2678 | 145000 | — | — | — | — | — | — | 526000 | |
| | 6.23 | 120 | 1968 | 152000 | 144 | 2338 | 151000 | — | — | — | — | — | — | 420000 | |
| GB 31002 | 14.03 | 53 | 1266 | 215000 | 64 | 1438 | 204000 | 103 | 2008 | 176000 | — | — | — | 549000 | 125 (H-F) |
| | 18.00 | 41.7 | 1015 | 221000 | 50 | 1205 | 219000 | 81 | 1687 | 190000 | — | — | — | 549000 | |
| | 21.48 | 34.9 | 929 | 242000 | 41.9 | 1055 | 229000 | 68 | 1474 | 198000 | — | — | — | 650000 | |
| | 25.49 | 29.4 | 824 | 254000 | 35.3 | 936 | 241000 | 57 | 1307 | 209000 | — | — | — | 650000 | |
| | 32.71 | 22.9 | 536 | 212000 | 27.5 | 636 | 210000 | 44.3 | 998 | 204000 | — | — | — | 526000 | |
| | 38.82 | 19.3 | 360 | 169000 | 23.2 | 427 | 167000 | 37.3 | 670 | 163000 | — | — | — | 420000 | |
| GB 31003 | 56.10 | 13.4 | 356 | 236000 | 16.0 | 423 | 233000 | 25.8 | 655 | 224000 | — | — | — | 549000 | 89 (H-F) |
| | 66.94 | 11.2 | 363 | 287000 | 13.4 | 431 | 284000 | 21.7 | 655 | 268000 | — | — | — | 650000 | |
| | 78.76 | 9.5 | 311 | 289000 | 11.4 | 370 | 286000 | 18.4 | 573 | 276000 | — | — | — | 650000 | |
| | 85.91 | 8.7 | 221 | 224000 | 10.5 | 263 | 222000 | 16.9 | 412 | 216000 | — | — | — | 526000 | |
| | 101.07 | 7.4 | 251 | 299000 | 8.9 | 292 | 291000 | 14.3 | 458 | 283000 | — | — | — | 650000 | |
| | 110.25 | 6.8 | 175 | 227000 | 8.2 | 208 | 225000 | 13.2 | 326 | 219000 | — | — | — | 526000 | |
| | 129.71 | 5.8 | 152 | 232000 | 6.9 | 178 | 227000 | 11.2 | 279 | 221000 | — | — | — | 526000 | |
| | 153.94 | 4.9 | 131 | 238000 | 5.8 | 153 | 232000 | 9.4 | 238 | 223000 | — | — | — | 526000 | |
| | 182.69 | 4.1 | 88 | 189000 | 4.9 | 102 | 184000 | 7.9 | 159 | 178000 | — | — | — | 420000 | |
| | GB 31004 | 199.87 | 3.8 | 122 | 282000 | 4.5 | 143 | 274000 | 7.3 | 214 | 255000 | 14.5 | 362 | 215000 | |
| 233.05 | | 3.2 | 108 | 288000 | 3.9 | 126 | 280000 | 6.2 | 188 | 261000 | 12.4 | 319 | 222000 | 549000 | |
| 256.50 | | 2.9 | 99 | 293000 | 3.5 | 116 | 285000 | 5.7 | 173 | 265000 | 11.3 | 312 | 238000 | 549000 | |
| 280.57 | | 2.7 | 108 | 349000 | 3.2 | 126 | 339000 | 5.2 | 189 | 316000 | 10.3 | 345 | 288000 | 650000 | |
| 327.14 | | 2.3 | 95 | 357000 | 2.8 | 111 | 347000 | 4.4 | 166 | 323000 | 8.9 | 299 | 291000 | 650000 | |
| 356.85 | | 2.1 | 88 | 362000 | 2.5 | 103 | 352000 | 4.1 | 154 | 327000 | 8.1 | 278 | 295000 | 650000 | |
| 401.65 | | 1.9 | 80 | 368000 | 2.2 | 93 | 358000 | 3.6 | 139 | 333000 | 7.2 | 251 | 300000 | 650000 | |
| 438.14 | | 1.7 | 74 | 373000 | 2.1 | 86 | 363000 | 3.3 | 129 | 338000 | 6.6 | 233 | 304000 | 650000 | |
| 500.29 | | 1.5 | 66 | 381000 | 1.8 | 77 | 370000 | 2.9 | 116 | 345000 | 5.8 | 208 | 310000 | 650000 | |
| 562.28 | | 1.3 | 44.8 | 290000 | 1.6 | 52 | 282000 | 2.6 | 78 | 262000 | 5.2 | 141 | 236000 | 526000 | |
| 639.43 | | 1.2 | 40.2 | 296000 | 1.4 | 46.9 | 288000 | 2.3 | 70 | 268000 | 4.5 | 127 | 241000 | 526000 | |
| 699.14 | | 1.1 | 42.9 | 345000 | 1.3 | 50 | 335000 | 2.1 | 78 | 326000 | 4.1 | 151 | 314000 | 650000 | |
| 785.08 | | 0.96 | 33.8 | 305000 | 1.1 | 39.4 | 297000 | 1.8 | 59 | 276000 | 3.7 | 106 | 249000 | 526000 | |
| 897.23 | | 0.84 | 30.1 | 311000 | 1.0 | 35.2 | 303000 | 1.6 | 53 | 282000 | 3.2 | 95 | 254000 | 526000 | |
| 1055.57 | | 0.71 | 26.3 | 319000 | 0.9 | 30.7 | 310000 | 1.4 | 45.9 | 289000 | 2.7 | 83 | 260000 | 526000 | |
| 1252.76 | | 0.60 | 17.6 | 253000 | 0.7 | 20.5 | 246000 | 1.2 | 30.7 | 229000 | 2.3 | 55 | 206000 | 420000 | |
| GB 31005 | | 719.53 | 1.04 | 42.4 | 342000 | 1.3 | 49.4 | 333000 | 2.0 | 74 | 309000 | 4.0 | 133 | 279000 | 549000 |
| | 858.53 | 0.87 | 42.9 | 413000 | 1.0 | 50.1 | 402000 | 1.7 | 75 | 374000 | 3.4 | 135 | 337000 | 650000 | |
| | 1001.04 | 0.75 | 37.6 | 423000 | 0.90 | 43.9 | 411000 | 1.4 | 66 | 383000 | 2.9 | 119 | 345000 | 650000 | |
| | 1101.78 | 0.68 | 34.7 | 429000 | 0.82 | 40.5 | 417000 | 1.3 | 61 | 388000 | 2.6 | 109 | 350000 | 650000 | |
| | 1254.09 | 0.60 | 26.4 | 372000 | 0.72 | 30.9 | 362000 | 1.2 | 46.3 | 337000 | 2.3 | 83 | 303000 | 549000 | |
| | 1403.42 | 0.53 | 28.3 | 445000 | 0.64 | 33.0 | 433000 | 1.0 | 49.4 | 403000 | 2.1 | 89 | 363000 | 650000 | |
| | 1577.29 | 0.48 | 25.6 | 453000 | 0.57 | 29.9 | 441000 | 0.92 | 44.8 | 410000 | 1.8 | 81 | 369000 | 650000 | |
| | 1784.27 | 0.42 | 23.0 | 461000 | 0.50 | 20.1 | 336000 | 0.81 | 40.3 | 418000 | 1.6 | 73 | 376000 | 650000 | |
| | 1981.09 | 0.38 | 15.8 | 351000 | 0.45 | 18.4 | 341000 | 0.73 | 27.6 | 318000 | 1.5 | 50 | 286000 | 526000 | |
| | 2239.08 | 0.33 | 19.0 | 478000 | 0.40 | 22.2 | 465000 | 0.65 | 33.3 | 432000 | 1.3 | 60 | 389000 | 650000 | |
| | 2516.91 | 0.30 | 14.8 | 419000 | 0.36 | 17.3 | 407000 | 0.58 | 25.9 | 379000 | 1.2 | 46.7 | 341000 | 650000 | |
| | 2811.38 | 0.27 | 11.7 | 370000 | 0.32 | 13.7 | 360000 | 0.52 | 20.5 | 335000 | 1.0 | 37.0 | 301000 | 526000 | |
| | 3148.70 | 0.24 | 14.2 | 503000 | 0.29 | 16.6 | 489000 | 0.46 | 24.9 | 455000 | 0.92 | 44.8 | 410000 | 650000 | |
| | 3559.02 | 0.21 | 9.6 | 383000 | 0.25 | 11.2 | 373000 | 0.41 | 16.8 | 347000 | 0.81 | 30.3 | 312000 | 526000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 31004 | 172.32 | 4.4 | 112 | 219000 | 5.2 | 127 | 207000 | 8.4 | 178 | 180000 | 16.8 | 289 | 146000 | 549000 | 60 (H-F) |
| | 205.61 | 3.6 | 112 | 261000 | 4.4 | 127 | 247000 | 7.1 | 178 | 214000 | 14.1 | 289 | 174000 | 650000 | |
| | 221.14 | 3.4 | 112 | 281000 | 4.1 | 127 | 266000 | 6.6 | 178 | 231000 | 13.1 | 289 | 187000 | 549000 | |
| | 263.86 | 2.8 | 112 | 335000 | 3.4 | 127 | 317000 | 5.5 | 178 | 275000 | 11.0 | 289 | 223000 | 526000 | |
| | 310.43 | 2.4 | 101 | 354000 | 2.9 | 118 | 344000 | 4.7 | 176 | 321000 | 9.3 | 289 | 263000 | 526000 | |
| | 368.42 | 2.0 | 78 | 327000 | 2.4 | 93 | 323000 | 3.9 | 146 | 314000 | 7.9 | 274 | 296000 | 650000 | |
| | 398.38 | 1.9 | 61 | 275000 | 2.3 | 71 | 268000 | 3.6 | 107 | 249000 | 7.3 | 194 | 227000 | 549000 | |
| | 469.14 | 1.6 | 53 | 280000 | 1.9 | 63 | 277000 | 3.1 | 98 | 270000 | 6.2 | 189 | 259000 | 549000 | |
| | 514.50 | 1.5 | 49 | 286000 | 1.7 | 57 | 278000 | 2.8 | 86 | 259000 | 5.6 | 155 | 233000 | 526000 | |
| | 561.13 | 1.3 | 35 | 224000 | 1.6 | 41 | 218000 | 2.6 | 62 | 203000 | 5.2 | 111 | 183000 | 420000 | |
| | 610.62 | 1.2 | 42 | 294000 | 1.5 | 50 | 286000 | 2.4 | 74 | 266000 | 4.7 | 134 | 239000 | 526000 | |
| | 718.37 | 1.0 | 37 | 301000 | 1.3 | 43 | 293000 | 2.0 | 65 | 272000 | 4.0 | 117 | 245000 | 526000 | |
| 852.57 | 0.88 | 25 | 239000 | 1.1 | 29 | 232000 | 1.7 | 43 | 216000 | 3.4 | 78 | 195000 | 549000 | | |
| GBA 31005 | 584.24 | 1.3 | 51 | 331000 | 1.5 | 60 | 322000 | 2.5 | 90 | 300000 | 5.0 | 162 | 270000 | 650000 | 50 (H-F) |
| | 697.10 | 1.1 | 52 | 400000 | 1.3 | 61 | 389000 | 2.1 | 91 | 362000 | 4.2 | 164 | 326000 | 650000 | |
| | 812.81 | 0.92 | 45.6 | 410000 | 1.1 | 53 | 398000 | 1.8 | 80 | 371000 | 3.6 | 144 | 334000 | 420000 | |
| | 894.61 | 0.84 | 42.1 | 416000 | 1.0 | 49.1 | 404000 | 1.6 | 74 | 376000 | 3.2 | 133 | 339000 | 650000 | |
| | 997.95 | 0.75 | 38.3 | 423000 | 0.90 | 44.7 | 411000 | 1.5 | 67 | 382000 | 2.9 | 121 | 344000 | 650000 | |
| | 1122.27 | 0.67 | 34.7 | 430000 | 0.80 | 40.5 | 418000 | 1.3 | 61 | 389000 | 2.6 | 109 | 351000 | 650000 | |
| | 1262.77 | 0.59 | 26.7 | 372000 | 0.71 | 31.2 | 362000 | 1.1 | 46.7 | 337000 | 2.3 | 84 | 303000 | 549000 | |
| | 1427.41 | 0.53 | 28.3 | 446000 | 0.63 | 33.0 | 434000 | 1.0 | 37.0 | 302000 | 2.0 | 89 | 364000 | 650000 | |
| | 1578.57 | 0.48 | 26.0 | 453000 | 0.57 | 30.3 | 441000 | 0.92 | 45.4 | 410000 | 1.8 | 82 | 369000 | 650000 | |
| | 1788.19 | 0.42 | 20.1 | 397000 | 0.50 | 23.5 | 387000 | 0.81 | 35.2 | 360000 | 1.6 | 65 | 331000 | 650000 | |
| | 2001.18 | 0.37 | 21.2 | 469000 | 0.45 | 18.6 | 342000 | 0.72 | 37.2 | 425000 | 1.4 | 67 | 383000 | 650000 | |
| | 2227.34 | 0.34 | 14.5 | 357000 | 0.40 | 16.9 | 347000 | 0.65 | 25.4 | 323000 | 1.3 | 45.7 | 291000 | 526000 | |
| | 2557.72 | 0.29 | 12.9 | 365000 | 0.35 | 15.1 | 355000 | 0.57 | 22.6 | 330000 | 1.1 | 40.7 | 297000 | 526000 | |
| | 2796.56 | 0.27 | 13.8 | 425000 | 0.32 | 16.1 | 414000 | 0.52 | 24.1 | 385000 | 1.0 | 43.4 | 347000 | 650000 | |
| | 3140.31 | 0.24 | 10.8 | 376000 | 0.29 | 12.7 | 366000 | 0.46 | 19.0 | 340000 | 0.92 | 34.2 | 307000 | 526000 | |
| | 3557.65 | 0.21 | 9.8 | 383000 | 0.25 | 11.4 | 373000 | 0.41 | 17.1 | 347000 | 0.82 | 30.7 | 312000 | 526000 | |
| | 4222.26 | 0.18 | 8.4 | 393000 | 0.21 | 9.8 | 383000 | 0.34 | 14.8 | 356000 | 0.69 | 26.6 | 321000 | 526000 | |
| | 5011.04 | 0.15 | 5.6 | 312000 | 0.18 | 6.6 | 304000 | 0.29 | 9.9 | 283000 | 0.58 | 17.8 | 255000 | 420000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 40001 | 3.43 | 219 | 3905 | 166000 | 263 | 4436 | 157000 | — | — | — | — | — | — | 650000 | 224 (H-F) |
| | 4.09 | 183 | 3412 | 173000 | 220 | 3876 | 164000 | — | — | — | — | — | — | 650000 | |
| | 5.25 | 143 | 2782 | 181000 | 171 | 3160 | 172000 | — | — | — | — | — | — | 650000 | |
| | 6.23 | 120 | 2436 | 188000 | 144 | 2768 | 178000 | — | — | — | — | — | — | 522000 | |
| GB 40002 | 14.03 | 53 | 1425 | 242000 | 64 | 1619 | 229000 | 103 | 2260 | 198000 | — | — | — | 650000 | 130 (H-F) |
| | 16.74 | 44.8 | 1305 | 264000 | 54 | 1483 | 250000 | 87 | 2071 | 217000 | — | — | — | 650000 | |
| | 18.00 | 41.7 | 1161 | 253000 | 50 | 1319 | 239000 | 81 | 1842 | 208000 | — | — | — | 650000 | |
| | 21.48 | 34.9 | 1096 | 285000 | 41.9 | 1245 | 270000 | 68 | 1739 | 234000 | — | — | — | 650000 | |
| | 25.49 | 29.4 | 909 | 280000 | 35.3 | 1079 | 277000 | 57 | 1542 | 246000 | — | — | — | 650000 | |
| | 27.56 | 27.2 | 783 | 261000 | 32.7 | 930 | 258000 | 53 | 1418 | 245000 | — | — | — | 650000 | |
| | 32.71 | 22.9 | 666 | 264000 | 27.5 | 791 | 261000 | 44.3 | 1240 | 254000 | — | — | — | 650000 | |
| | 38.82 | 19.3 | 447 | 210000 | 23.2 | 531 | 208000 | 37.3 | 832 | 202000 | — | — | — | 522000 | |
| GB 40003 | 56.10 | 13.4 | 413 | 273000 | 16.0 | 469 | 259000 | 25.8 | 655 | 224000 | 52 | 1064 | 182000 | 650000 | 76 (H-F) |
| | 66.94 | 11.2 | 413 | 326000 | 13.4 | 469 | 309000 | 21.7 | 655 | 268000 | 43.3 | 1064 | 217000 | 650000 | |
| | 72.00 | 10.4 | 352 | 300000 | 12.5 | 415 | 294000 | 20.1 | 650 | 286000 | 40.3 | 1064 | 234000 | 650000 | |
| | 78.76 | 9.5 | 361 | 336000 | 11.4 | 411 | 318000 | 18.4 | 573 | 276000 | 36.8 | 932 | 224000 | 650000 | |
| | 85.91 | 8.7 | 357 | 362000 | 10.5 | 423 | 358000 | 16.9 | 655 | 343000 | 33.8 | 1064 | 279000 | 650000 | |
| | 101.07 | 7.4 | 311 | 371000 | 8.9 | 363 | 361000 | 14.3 | 569 | 351000 | 28.7 | 932 | 287000 | 650000 | |
| | 110.25 | 6.8 | 217 | 283000 | 8.2 | 258 | 280000 | 13.2 | 404 | 272000 | 26.3 | 778 | 262000 | 650000 | |
| | 129.71 | 5.8 | 189 | 289000 | 6.9 | 221 | 282000 | 11.2 | 347 | 275000 | 22.4 | 667 | 264000 | 650000 | |
| | 155.29 | 4.8 | 125 | 229000 | 5.8 | 147 | 225000 | 9.3 | 231 | 219000 | 18.7 | 444 | 211000 | 522000 | |
| | 182.69 | 4.1 | 109 | 235000 | 4.9 | 127 | 229000 | 7.9 | 198 | 221000 | 15.9 | 381 | 212000 | 522000 | |
| GB 40004 | 199.87 | 3.8 | 140 | 323000 | 4.5 | 159 | 305000 | 7.3 | 223 | 265000 | 14.5 | 362 | 215000 | 650000 | 72 (H-F) |
| | 235.14 | 3.2 | 132 | 358000 | 3.8 | 155 | 348000 | 6.2 | 223 | 311000 | 12.3 | 362 | 253000 | 650000 | |
| | 256.50 | 2.9 | 114 | 338000 | 3.5 | 136 | 334000 | 5.7 | 213 | 325000 | 11.3 | 362 | 276000 | 650000 | |
| | 280.57 | 2.7 | 134 | 433000 | 3.2 | 157 | 421000 | 5.2 | 223 | 372000 | 10.3 | 362 | 302000 | 650000 | |
| | 306.05 | 2.5 | 93 | 329000 | 2.9 | 109 | 320000 | 4.7 | 163 | 297000 | 9.5 | 362 | 329000 | 650000 | |
| | 351.86 | 2.1 | 85 | 344000 | 2.6 | 101 | 341000 | 4.1 | 158 | 331000 | 8.2 | 296 | 310000 | 650000 | |
| | 401.65 | 1.9 | 99 | 457000 | 2.2 | 116 | 445000 | 3.6 | 166 | 398000 | 7.2 | 270 | 323000 | 650000 | |
| | 438.14 | 1.7 | 82 | 412000 | 2.1 | 97 | 407000 | 3.3 | 152 | 396000 | 6.6 | 270 | 353000 | 650000 | |
| | 500.29 | 1.5 | 72 | 417000 | 1.8 | 86 | 410000 | 2.9 | 134 | 399000 | 5.8 | 244 | 363000 | 650000 | |
| | 562.28 | 1.3 | 56 | 360000 | 1.6 | 65 | 351000 | 2.6 | 97 | 326000 | 5.2 | 175 | 294000 | 650000 | |
| | 639.43 | 1.2 | 49.9 | 367000 | 1.4 | 58 | 357000 | 2.3 | 87 | 333000 | 4.5 | 157 | 299000 | 650000 | |
| | 699.14 | 1.1 | 42.9 | 345000 | 1.3 | 50 | 335000 | 2.1 | 78 | 326000 | 4.1 | 151 | 314000 | 650000 | |
| | 791.98 | 0.95 | 32.2 | 294000 | 1.1 | 37.6 | 286000 | 1.8 | 56 | 266000 | 3.7 | 102 | 239000 | 522000 | |
| | 889.41 | 0.84 | 37.7 | 386000 | 1.0 | 44.1 | 376000 | 1.6 | 66 | 350000 | 3.3 | 119 | 315000 | 650000 | |
| | 1055.57 | 0.71 | 32.6 | 396000 | 0.85 | 38.1 | 386000 | 1.4 | 57 | 359000 | 2.7 | 103 | 323000 | 650000 | |
| GB 40005 | 719.53 | 1.0 | 52.6 | 424000 | 1.25 | 61.4 | 413000 | 2.0 | 92 | 384000 | 4.0 | 151 | 316000 | 650000 | 59 (H-F) |
| | 858.53 | 0.87 | 53.3 | 513000 | 1.05 | 62.2 | 499000 | 1.7 | 93 | 464000 | 3.4 | 151 | 377000 | 650000 | |
| | 999.35 | 0.75 | 37.5 | 421000 | 0.90 | 44.6 | 417000 | 1.5 | 70 | 404000 | 2.9 | 125 | 363000 | 650000 | |
| | 1101.78 | 0.68 | 38.0 | 470000 | 0.82 | 44.4 | 457000 | 1.3 | 67 | 425000 | 2.6 | 126 | 402000 | 650000 | |
| | 1254.09 | 0.60 | 30.3 | 426000 | 0.72 | 36.0 | 422000 | 1.2 | 56 | 411000 | 2.3 | 103 | 376000 | 650000 | |
| | 1413.96 | 0.53 | 26.1 | 414000 | 0.64 | 30.5 | 403000 | 1.0 | 45.7 | 375000 | 2.1 | 82 | 338000 | 650000 | |
| | 1577.29 | 0.48 | 28.0 | 496000 | 0.57 | 32.7 | 483000 | 0.92 | 49.1 | 449000 | 1.8 | 90 | 410000 | 650000 | |
| | 1784.27 | 0.42 | 25.3 | 506000 | 0.50 | 29.5 | 492000 | 0.81 | 44.2 | 458000 | 1.6 | 80 | 413000 | 650000 | |
| | 1981.09 | 0.38 | 19.6 | 436000 | 0.45 | 22.9 | 424000 | 0.73 | 34.3 | 395000 | 1.5 | 62 | 355000 | 650000 | |
| | 2239.08 | 0.33 | 20.8 | 520000 | 0.40 | 24.3 | 509000 | 0.65 | 36.5 | 474000 | 1.3 | 66 | 427000 | 650000 | |
| | 2514.73 | 0.30 | 14.8 | 419000 | 0.36 | 17.3 | 407000 | 0.58 | 26.0 | 379000 | 1.2 | 46.7 | 341000 | 650000 | |
| | 2811.38 | 0.27 | 14.6 | 460000 | 0.32 | 17.0 | 447000 | 0.52 | 25.5 | 416000 | 1.0 | 45.9 | 375000 | 650000 | |
| | 3166.70 | 0.24 | 12.2 | 433000 | 0.28 | 14.2 | 422000 | 0.46 | 21.3 | 392000 | 0.92 | 38.4 | 353000 | 650000 | |
| | 3559.02 | 0.21 | 11.9 | 476000 | 0.25 | 13.9 | 463000 | 0.41 | 20.9 | 431000 | 0.81 | 37.6 | 388000 | 650000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 40004 | 172.32 | 4.4 | 112 | 219000 | 5.2 | 127 | 207000 | 8.4 | 178 | 180000 | 16.8 | 289 | 146000 | 650000 | 62 (H-F) |
| | 205.61 | 3.6 | 112 | 261000 | 4.4 | 127 | 247000 | 7.1 | 178 | 214000 | 14.1 | 289 | 174000 | 650000 | |
| | 221.14 | 3.4 | 112 | 281000 | 4.1 | 127 | 266000 | 6.6 | 178 | 231000 | 13.1 | 289 | 187000 | 650000 | |
| | 260.17 | 2.9 | 112 | 331000 | 3.5 | 127 | 313000 | 5.6 | 178 | 271000 | 11.1 | 289 | 220000 | 650000 | |
| | 310.43 | 2.4 | 112 | 394000 | 2.9 | 127 | 373000 | 4.7 | 178 | 324000 | 9.3 | 289 | 263000 | 650000 | |
| | 368.42 | 2.0 | 78 | 327000 | 2.4 | 93 | 323000 | 3.9 | 146 | 314000 | 7.9 | 280 | 302000 | 650000 | |
| | 398.38 | 1.9 | 76 | 342000 | 2.3 | 88 | 333000 | 3.6 | 133 | 310000 | 7.3 | 241 | 282000 | 650000 | |
| | 469.14 | 1.6 | 53 | 280000 | 1.9 | 63 | 277000 | 3.1 | 98 | 270000 | 6.2 | 189 | 259000 | 648000 | |
| | 514.50 | 1.5 | 57 | 330000 | 1.7 | 67 | 327000 | 2.8 | 105 | 318000 | 5.6 | 192 | 290000 | 650000 | |
| | 559.77 | 1.3 | 53 | 334000 | 1.6 | 63 | 331000 | 2.6 | 98 | 322000 | 5.2 | 189 | 310000 | 650000 | |
| | 610.62 | 1.2 | 53 | 365000 | 1.5 | 62 | 355000 | 2.4 | 92 | 330000 | 4.7 | 166 | 297000 | 650000 | |
| | 718.37 | 1.0 | 45.9 | 374000 | 1.3 | 54 | 364000 | 2.0 | 80 | 338000 | 4.0 | 145 | 305000 | 650000 | |
| | 852.57 | 0.88 | 30.7 | 297000 | 1.1 | 35.9 | 289000 | 1.7 | 54 | 269000 | 3.4 | 97 | 242000 | 522000 | |
| GBA 40005 | 584.24 | 1.3 | 64 | 411000 | 1.5 | 74 | 400000 | 2.5 | 109 | 365000 | 5.0 | 178 | 297000 | 650000 | 54 (H-F) |
| | 697.10 | 1.1 | 65 | 497000 | 1.3 | 75 | 484000 | 2.1 | 109 | 436000 | 4.2 | 178 | 354000 | 650000 | |
| | 799.48 | 0.94 | 48.8 | 431000 | 1.1 | 57 | 419000 | 1.8 | 85 | 390000 | 3.6 | 143 | 326000 | 650000 | |
| | 894.61 | 0.84 | 46.1 | 456000 | 1.0 | 54 | 443000 | 1.6 | 81 | 413000 | 3.2 | 155 | 397000 | 650000 | |
| | 997.95 | 0.75 | 47.6 | 520000 | 0.90 | 56 | 511000 | 1.5 | 82 | 467000 | 2.9 | 133 | 379000 | 650000 | |
| | 1122.27 | 0.67 | 40.4 | 501000 | 0.80 | 48.0 | 495000 | 1.3 | 75 | 482000 | 2.6 | 136 | 435000 | 650000 | |
| | 1262.77 | 0.59 | 29.6 | 413000 | 0.71 | 34.6 | 402000 | 1.1 | 52 | 374000 | 2.3 | 95 | 343000 | 650000 | |
| | 1427.41 | 0.53 | 31.0 | 489000 | 0.63 | 36.2 | 476000 | 1.0 | 54 | 442000 | 2.0 | 100 | 408000 | 650000 | |
| | 1578.57 | 0.48 | 26.1 | 456000 | 0.57 | 31.0 | 451000 | 0.92 | 48.6 | 439000 | 1.8 | 94 | 422000 | 650000 | |
| | 1788.19 | 0.42 | 20.1 | 397000 | 0.50 | 19.6 | 323000 | 0.81 | 35.2 | 360000 | 1.6 | 65 | 331000 | 650000 | |
| | 1993.03 | 0.38 | 18.4 | 404000 | 0.45 | 21.4 | 393000 | 0.73 | 32.1 | 366000 | 1.5 | 58 | 333000 | 650000 | |
| | 2227.34 | 0.34 | 18.0 | 444000 | 0.40 | 21.1 | 432000 | 0.65 | 31.6 | 402000 | 1.3 | 57 | 362000 | 650000 | |
| | 2557.72 | 0.29 | 16.0 | 453000 | 0.35 | 18.7 | 441000 | 0.57 | 28.1 | 410000 | 1.1 | 51 | 369000 | 650000 | |
| | 2796.56 | 0.27 | 13.8 | 425000 | 0.32 | 16.1 | 414000 | 0.52 | 24.1 | 385000 | 1.0 | 43.4 | 347000 | 650000 | |
| | 3140.31 | 0.24 | 13.5 | 467000 | 0.29 | 15.7 | 455000 | 0.46 | 23.6 | 423000 | 0.92 | 42.5 | 381000 | 650000 | |
| | 3557.65 | 0.21 | 12.1 | 476000 | 0.25 | 14.1 | 463000 | 0.41 | 21.2 | 431000 | 0.82 | 38.2 | 388000 | 650000 | |
| | 4222.26 | 0.18 | 10.5 | 489000 | 0.21 | 12.2 | 476000 | 0.34 | 18.3 | 442000 | 0.69 | 33.0 | 398000 | 650000 | |
| 5011.04 | 0.15 | 7.0 | 388000 | 0.18 | 8.2 | 378000 | 0.29 | 12.3 | 351000 | 0.58 | 22.1 | 316000 | 522000 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 45001 | 3.83 | 196 | 4792 | 228000 | 235 | 5444 | 216000 | — | — | — | — | — | — | 650000 | 224 (H-F) |
| GB 45002 | 14.69 | 51 | 1919 | 341000 | 61 | 2180 | 323000 | 99 | 3044 | 280000 | — | — | — | 650000 | 133 (H-F) |
| | 16.87 | 44.5 | 1742 | 356000 | 53 | 1979 | 337000 | 86 | 2764 | 292000 | — | — | — | 650000 | |
| GB 45003 | 56.43 | 13.3 | 632 | 421000 | 15.9 | 718 | 399000 | 25.7 | 1003 | 345000 | — | — | — | 650000 | 98 (H-F) |
| | 64.77 | 11.6 | 594 | 454000 | 13.9 | 705 | 449000 | 22.4 | 1003 | 397000 | — | — | — | 650000 | |
| | 76.07 | 9.9 | 495 | 444000 | 11.8 | 562 | 421000 | 19.1 | 785 | 365000 | — | — | — | 650000 | |
| | 87.31 | 8.6 | 448 | 462000 | 10.3 | 532 | 457000 | 16.6 | 785 | 418000 | — | — | — | 650000 | |
| GB 45004 | 193.46 | 3.9 | 231 | 513000 | 4.7 | 269 | 499000 | 7.5 | 380 | 437000 | — | — | — | 650000 | 76 (H-F) |
| | 222.06 | 3.4 | 205 | 520000 | 4.1 | 239 | 510000 | 6.5 | 359 | 474000 | — | — | — | 650000 | |
| | 260.80 | 2.9 | 176 | 520000 | 3.5 | 209 | 520000 | 5.6 | 313 | 486000 | — | — | — | 650000 | |
| | 299.35 | 2.5 | 159 | 520000 | 3.0 | 186 | 520000 | 4.8 | 279 | 496000 | — | — | — | 650000 | |
| | 311.18 | 2.4 | 149 | 520000 | 2.9 | 177 | 520000 | 4.7 | 270 | 499000 | — | — | — | 650000 | |
| | 357.18 | 2.1 | 137 | 520000 | 2.5 | 160 | 520000 | 4.1 | 240 | 510000 | — | — | — | 650000 | |
| | 399.34 | 1.9 | 118 | 520000 | 2.3 | 140 | 520000 | 3.6 | 218 | 518000 | — | — | — | 650000 | |
| | 458.38 | 1.6 | 111 | 520000 | 2.0 | 129 | 520000 | 3.2 | 194 | 520000 | — | — | — | 650000 | |
| | 544.01 | 1.4 | 96 | 520000 | 1.7 | 112 | 520000 | 2.7 | 168 | 520000 | — | — | — | 650000 | |
| GB 45005 | 696.47 | 1.1 | 80 | 520000 | 1.3 | 93 | 520000 | 2.1 | 133 | 520000 | 4.2 | 217 | 438000 | 650000 | 63 (H-F) |
| | 799.42 | 0.94 | 71 | 520000 | 1.1 | 83 | 520000 | 1.8 | 124 | 520000 | 3.6 | 217 | 503000 | 650000 | |
| | 981.05 | 0.76 | 60 | 520000 | 0.92 | 70 | 520000 | 1.5 | 104 | 520000 | 3.0 | 188 | 520000 | 650000 | |
| | 1126.08 | 0.67 | 53 | 520000 | 0.80 | 62 | 520000 | 1.3 | 93 | 520000 | 2.6 | 167 | 520000 | 650000 | |
| | 1259.02 | 0.60 | 48.0 | 520000 | 0.71 | 56 | 520000 | 1.2 | 84 | 520000 | 2.3 | 152 | 520000 | 650000 | |
| | 1413.12 | 0.53 | 43.7 | 520000 | 0.64 | 51 | 520000 | 1.0 | 77 | 520000 | 2.1 | 138 | 520000 | 650000 | |
| | 1579.95 | 0.47 | 38.8 | 520000 | 0.57 | 46.0 | 520000 | 0.92 | 70 | 520000 | 1.8 | 125 | 520000 | 650000 | |
| | 1813.50 | 0.41 | 35.4 | 520000 | 0.50 | 41.3 | 520000 | 0.80 | 62 | 520000 | 1.6 | 112 | 520000 | 650000 | |
| | 1987.20 | 0.38 | 27.2 | 520000 | 0.45 | 32.3 | 520000 | 0.73 | 51 | 520000 | 1.5 | 97 | 520000 | 650000 | |
| | 2245.11 | 0.33 | 27.0 | 520000 | 0.40 | 32.0 | 520000 | 0.65 | 50 | 520000 | 1.3 | 93 | 520000 | 650000 | |
| | 2502.04 | 0.30 | 22.5 | 520000 | 0.36 | 26.7 | 520000 | 0.58 | 41.9 | 520000 | 1.2 | 81 | 520000 | 650000 | |
| | 2841.93 | 0.26 | 21.8 | 520000 | 0.32 | 25.6 | 520000 | 0.51 | 40.2 | 520000 | 1.0 | 76 | 520000 | 650000 | |
| | 3372.84 | 0.22 | 18.9 | 520000 | 0.27 | 22.0 | 520000 | 0.43 | 34.2 | 520000 | 0.9 | 66 | 520000 | 650000 | |
| | 3554.59 | 0.21 | 16.1 | 520000 | 0.25 | 18.7 | 520000 | 0.41 | 28.6 | 520000 | 0.8 | 55 | 520000 | 650000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 45004 | 210.50 | 3.6 | 218 | 520000 | 4.3 | 255 | 506000 | 6.9 | 382 | 471000 | 13.8 | 651 | 401000 | 650000 | 66 (H-F) |
| | 247.21 | 3.0 | 188 | 520000 | 3.6 | 222 | 518000 | 5.9 | 333 | 482000 | 11.7 | 582 | 422000 | 650000 | |
| | 283.76 | 2.6 | 169 | 520000 | 3.2 | 198 | 520000 | 5.1 | 296 | 492000 | 10.2 | 550 | 457000 | 650000 | |
| GBA 45005 | 594.21 | 1.3 | 93 | 520000 | 1.5 | 108 | 520000 | 2.4 | 162 | 520000 | 4.9 | 292 | 496000 | 650000 | 57 (H-F) |
| | 709.00 | 1.1 | 80 | 520000 | 1.3 | 93 | 520000 | 2.0 | 140 | 520000 | 4.1 | 251 | 509000 | 650000 | |
| | 813.81 | 0.92 | 71 | 520000 | 1.1 | 83 | 520000 | 1.8 | 124 | 520000 | 3.6 | 224 | 520000 | 650000 | |
| | 902.83 | 0.83 | 58 | 520000 | 1.0 | 69 | 520000 | 1.6 | 108 | 520000 | 3.2 | 205 | 520000 | 650000 | |
| | 1036.29 | 0.72 | 58 | 520000 | 0.87 | 67 | 520000 | 1.4 | 101 | 520000 | 2.8 | 182 | 520000 | 650000 | |
| | 1097.04 | 0.68 | 54 | 520000 | 0.82 | 64 | 520000 | 1.3 | 96 | 520000 | 2.6 | 174 | 520000 | 650000 | |
| | 1236.48 | 0.61 | 49.8 | 520000 | 0.73 | 58 | 520000 | 1.2 | 87 | 520000 | 2.3 | 157 | 520000 | 650000 | |
| | 1407.87 | 0.53 | 42.5 | 520000 | 0.64 | 50 | 520000 | 1.0 | 78 | 520000 | 2.1 | 140 | 520000 | 650000 | |
| | 1586.82 | 0.47 | 40.3 | 520000 | 0.57 | 47.0 | 520000 | 0.91 | 70 | 520000 | 1.8 | 127 | 520000 | 650000 | |
| | 1670.88 | 0.45 | 36.2 | 520000 | 0.54 | 43.0 | 520000 | 0.87 | 67 | 520000 | 1.7 | 121 | 520000 | 650000 | |
| | 1883.25 | 0.40 | 29.9 | 520000 | 0.48 | 35.5 | 520000 | 0.77 | 56 | 520000 | 1.5 | 107 | 520000 | 650000 | |
| | 2211.75 | 0.34 | 24.4 | 520000 | 0.41 | 29.0 | 520000 | 0.66 | 45.4 | 520000 | 1.3 | 87 | 520000 | 650000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 53001 | 3.84 | 195 | 6576 | 313000 | 234 | 7471 | 477000 | — | — | — | — | — | — | 1191000 | 324 (H-F) |
| | 5.44 | 138 | 4311 | 291000 | 166 | 5120 | 288000 | — | — | — | — | — | — | 801000 | |
| GB 53002 | 14.13 | 53 | 2124 | 363000 | 64 | 2413 | 514000 | — | — | — | — | — | — | 1191000 | 185 (H-F) |
| | 18.97 | 39.5 | 1669 | 383000 | 47.4 | 1896 | 490000 | — | — | — | — | — | — | 1191000 | |
| GB 53003 | 111.31 | 6.7 | 263 | 346000 | 8.1 | 313 | 342000 | 13.0 | 490 | 333000 | — | — | — | 801000 | 132 (H-F) |
| | 145.09 | 5.2 | 209 | 357000 | 6.2 | 244 | 348000 | 10.0 | 382 | 338000 | — | — | — | 801000 | |
| | 174.64 | 4.3 | 178 | 368000 | 5.2 | 208 | 358000 | 8.3 | 321 | 342000 | — | — | — | 801000 | |
| GB 53004 | 200.72 | 3.7 | 239 | 553000 | 4.5 | 272 | 523000 | 7.2 | 380 | 453000 | — | — | — | 1191000 | 103 (H-F) |
| | 400.62 | 1.9 | 137 | 631000 | 2.2 | 163 | 625000 | 3.6 | 250 | 597000 | — | — | — | 1191000 | |
| | 475.46 | 1.6 | 117 | 638000 | 1.9 | 138 | 631000 | 3.0 | 217 | 614000 | — | — | — | 1191000 | |
| | 647.49 | 1.2 | 83 | 616000 | 1.4 | 97 | 600000 | 2.2 | 151 | 584000 | — | — | — | 1191000 | |
| | 768.45 | 0.98 | 72 | 632000 | 1.2 | 83 | 615000 | 1.9 | 129 | 589000 | — | — | — | 1191000 | |
| GB 53005 | 1437.38 | 0.52 | 43.1 | 695000 | 0.63 | 50 | 676000 | 1.0 | 75 | 629000 | 2.0 | 141 | 587000 | 1191000 | 84 (H-F) |
| | 1639.22 | 0.46 | 38.8 | 713000 | 0.55 | 46.0 | 706000 | 0.88 | 72 | 687000 | 1.8 | 139 | 660000 | 1191000 | |
| | 1936.50 | 0.39 | 33.5 | 727000 | 0.46 | 39.1 | 707000 | 0.75 | 59 | 658000 | 1.5 | 106 | 597000 | 1191000 | |
| | 2341.28 | 0.32 | 27.2 | 714000 | 0.38 | 32.0 | 701000 | 0.62 | 50 | 673000 | 1.2 | 95 | 647000 | 1191000 | |
| | 2766.43 | 0.27 | 22.6 | 701000 | 0.33 | 26.8 | 694000 | 0.52 | 42.0 | 675000 | 1.0 | 78 | 625000 | 1191000 | |
| | 3143.67 | 0.24 | 22.2 | 782000 | 0.29 | 25.9 | 761000 | 0.46 | 38.8 | 708000 | 0.9 | 70 | 638000 | 1191000 | |
| | 3335.08 | 0.22 | 21.1 | 789000 | 0.30 | 24.6 | 768000 | 0.43 | 36.9 | 715000 | 0.9 | 66 | 643000 | 1191000 | |
| 3673.37 | 0.20 | 18.8 | 775000 | 0.25 | 22.3 | 767000 | 0.39 | 34.0 | 725000 | 0.8 | 61 | 653000 | 1191000 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 53004 | 190.27 | 3.9 | 245 | 527000 | 4.7 | 287 | 515000 | 7.6 | 401 | 447000 | 15.2 | 651 | 363000 | 1191000 | 89 (H-F) |
| | 248.00 | 3.0 | 219 | 614000 | 3.6 | 255 | 596000 | 5.8 | 356 | 517000 | 11.7 | 578 | 420000 | 1191000 | |
| | 361.75 | 2.1 | 100 | 410000 | 2.5 | 117 | 399000 | 4.0 | 175 | 372000 | 8.0 | 323 | 342000 | 801000 | |
| | 471.53 | 1.6 | 80 | 427000 | 1.9 | 93 | 416000 | 3.1 | 140 | 387000 | 6.2 | 252 | 348000 | 801000 | |
| | 567.58 | 1.3 | 68 | 439000 | 1.6 | 80 | 427000 | 2.6 | 120 | 398000 | 5.1 | 215 | 358000 | 801000 | |
| GBA 53005 | 616.50 | 1.2 | 114 | 773000 | 1.5 | 129 | 733000 | 2.4 | 180 | 635000 | 4.7 | 293 | 516000 | 1191000 | 75 (H-F) |
| | 735.60 | 1.0 | 99 | 804000 | 1.2 | 112 | 761000 | 2.0 | 157 | 659000 | 3.9 | 255 | 536000 | 1191000 | |
| | 1117.65 | 0.67 | 58 | 717000 | 0.81 | 69 | 710000 | 1.3 | 108 | 691000 | 2.6 | 190 | 607000 | 1191000 | |
| | 1500.68 | 0.50 | 42.2 | 700000 | 0.60 | 49 | 681000 | 1.0 | 74 | 633000 | 1.9 | 137 | 589000 | 1191000 | |
| | 2360.24 | 0.32 | 26.6 | 695000 | 0.38 | 32 | 687000 | 0.61 | 50 | 669000 | 1.2 | 91 | 611000 | 1191000 | |
| | 2979.23 | 0.25 | 23.6 | 776000 | 0.30 | 28 | 755000 | 0.49 | 41 | 702000 | 1.0 | 74 | 632000 | 1191000 | |
| | 3334.03 | 0.22 | 15.6 | 574000 | 0.27 | 18.2 | 559000 | 0.43 | 27 | 520000 | 0.87 | 49 | 468000 | 801000 | |
| | 3781.89 | 0.20 | 14.0 | 585000 | 0.24 | 16.4 | 570000 | 0.38 | 25 | 530000 | 0.77 | 44 | 477000 | 801000 | |
| | 4218.63 | 0.18 | 12.8 | 595000 | 0.21 | 14.9 | 579000 | 0.34 | 22 | 539000 | 0.69 | 40 | 485000 | 801000 | |
| | 5077.99 | 0.15 | 10.9 | 612000 | 0.18 | 12.7 | 595000 | 0.29 | 19 | 554000 | 0.57 | 34 | 499000 | 801000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 61001 | 3.84 | 195 | 8767 | 418000 | — | — | — | — | — | — | — | — | — | 1310000 | 324 (H-F) |
| GB 61002 | 14.13 | 53 | 2124 | 363000 | 64 | 2413 | 344000 | — | — | — | — | — | — | 1310000 | 185 (H-F) |
| | 18.97 | 39.5 | 1669 | 383000 | 47.4 | 1896 | 363000 | — | — | — | — | — | — | 1310000 | |
| GB 61003 | 102.46 | 7.3 | 451 | 546000 | 8.8 | 536 | 540000 | 14.2 | 779 | 487000 | | | | 1310000 | 132 (H-F) |
| | 123.33 | 6.1 | 379 | 551000 | 7.3 | 450 | 546000 | 11.8 | 665 | 501000 | | | | 1310000 | |
| GB 61004 | 224.42 | 3.3 | 243 | 627000 | 4.0 | 276 | 593000 | 6.5 | 385 | 514000 | — | — | — | 1310000 | 103 (H-F) |
| | 292.52 | 2.6 | 184 | 620000 | 3.1 | 219 | 614000 | 5.0 | 312 | 543000 | — | — | — | 1310000 | |
| | 307.35 | 2.4 | 195 | 689000 | 2.9 | 221 | 652000 | 4.7 | 309 | 565000 | — | — | — | 1310000 | |
| | 400.62 | 1.9 | 137 | 631000 | 2.2 | 163 | 625000 | 3.6 | 250 | 597000 | — | — | — | 1310000 | |
| | 537.92 | 1.4 | 97 | 600000 | 1.7 | 115 | 594000 | 2.7 | 180 | 578000 | — | — | — | 1310000 | |
| | 647.49 | 1.2 | 83 | 616000 | 1.4 | 97 | 600000 | 2.2 | 151 | 584000 | — | — | — | 1310000 | |
| GB 61005 | 897.67 | 0.84 | 81 | 816000 | 1.0 | 96 | 807000 | 1.6 | 150 | 780000 | 3.2 | 243 | 633000 | 1310000 | 84 (H-F) |
| | 1020.08 | 0.74 | 72 | 822000 | 0.88 | 85 | 813000 | 1.4 | 134 | 791000 | 2.8 | 222 | 658000 | 1310000 | |
| | 1170.06 | 0.64 | 51 | 671000 | 0.77 | 61 | 664000 | 1.2 | 95 | 647000 | 2.5 | 183 | 621000 | 1310000 | |
| | 1229.41 | 0.61 | 60 | 833000 | 0.73 | 72 | 822000 | 1.2 | 112 | 800000 | 2.4 | 195 | 696000 | 1310000 | |
| | 1397.06 | 0.54 | 54 | 849000 | 0.64 | 63 | 828000 | 1.0 | 99 | 806000 | 2.1 | 178 | 723000 | 1310000 | |
| | 1571.06 | 0.48 | 40.0 | 704000 | 0.57 | 46.7 | 685000 | 0.92 | 70 | 638000 | 1.8 | 129 | 590000 | 1310000 | |
| | 1785.29 | 0.42 | 35.9 | 718000 | 0.50 | 41.9 | 699000 | 0.81 | 63 | 650000 | 1.6 | 115 | 595000 | 1310000 | |
| | 1928.91 | 0.39 | 24.0 | 520000 | 0.47 | 28.5 | 515000 | 0.75 | 44.7 | 501000 | 1.5 | 86 | 481000 | 1310000 | |
| | 2151.66 | 0.35 | 30.6 | 739000 | 0.42 | 35.7 | 719000 | 0.67 | 53.6 | 669000 | 1.3 | 96 | 602000 | 1310000 | |
| | 2589.97 | 0.29 | 24.0 | 698000 | 0.35 | 28.5 | 691000 | 0.56 | 44.7 | 672000 | 1.1 | 82 | 619000 | 1310000 | |
| | 2943.14 | 0.25 | 21.4 | 706000 | 0.31 | 25.3 | 696000 | 0.49 | 39.7 | 677000 | 1.0 | 74 | 631000 | 1310000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|-----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 61004 | 190.27 | 3.9 | 245 | 527000 | 4.7 | 287 | 515000 | 7.6 | 401 | 447000 | 15.2 | 651 | 363000 | 1310000 | 89 (H-F) |
| | 333.00 | 2.3 | 155 | 584000 | 2.7 | 184 | 577000 | 4.4 | 288 | 562000 | 8.7 | 554 | 540000 | 1310000 | |
| | 400.83 | 1.9 | 130 | 590000 | 2.2 | 154 | 584000 | 3.6 | 242 | 568000 | 7.2 | 465 | 546000 | 1310000 | |
| GBA 61005 | 898.44 | 0.83 | 67 | 661000 | 1.0 | 79 | 654000 | 1.6 | 124 | 637000 | 3.2 | 238 | 612000 | 1310000 | 75 (H-F) |
| | 944.01 | 0.79 | 78 | 818000 | 1.0 | 93 | 810000 | 1.5 | 146 | 788000 | 3.1 | 238 | 643000 | 1310000 | |
| | 1047.28 | 0.72 | 58 | 672000 | 0.83 | 69 | 665000 | 1.3 | 108 | 647000 | 2.8 | 206 | 617000 | 1310000 | |
| | 1230.47 | 0.61 | 49.5 | 673000 | 0.71 | 59 | 666000 | 1.1 | 92 | 648000 | 2.4 | 177 | 623000 | 1310000 | |
| | 1434.32 | 0.52 | 54 | 852000 | 0.63 | 63 | 829000 | 1.0 | 98 | 807000 | 2.0 | 178 | 729000 | 1310000 | |
| | 1652.17 | 0.40 | 38.9 | 710000 | 0.54 | 45.4 | 691000 | 0.88 | 68 | 642000 | 1.8 | 125 | 592000 | 1310000 | |
| | 1988.72 | 0.38 | 31.3 | 688000 | 0.45 | 37.2 | 681000 | 0.73 | 58 | 661000 | 1.5 | 105 | 598000 | 1310000 | |
| | 2206.27 | 0.34 | 28.4 | 692000 | 0.41 | 33.7 | 685000 | 0.66 | 53 | 666000 | 1.3 | 96 | 604000 | 1310000 | |
| | 2510.28 | 0.30 | 27.3 | 756000 | 0.36 | 31.8 | 736000 | 0.58 | 47.7 | 684000 | 1.2 | 85.9 | 616000 | 1310000 | |
| | 3021.63 | 0.25 | 21.2 | 709000 | 0.30 | 25.1 | 697000 | 0.58 | 39.3 | 678000 | 0.96 | 73.4 | 634000 | 1310000 | |
| GBA 61006 | 3259.46 | 0.23 | 21.6 | 758000 | 0.28 | 24.6 | 737000 | 0.44 | 37.8 | 686000 | 0.89 | 72.6 | 659000 | 1310000 | 63 (H-F) |
| | 3590.67 | 0.21 | 22.2 | 858000 | 0.25 | 25.2 | 812000 | 0.40 | 35.2 | 704000 | 0.81 | 57.2 | 572000 | 1310000 | |
| | 3923.43 | 0.19 | 13.6 | 574000 | 0.23 | 15.9 | 559000 | 0.37 | 23.9 | 522000 | 0.74 | 45.9 | 501000 | 1310000 | |
| | 4464.05 | 0.17 | 16.5 | 795000 | 0.20 | 19.3 | 773000 | 0.32 | 28.9 | 719000 | 0.65 | 54.0 | 671000 | 1310000 | |
| | 5072.78 | 0.15 | 14.8 | 810000 | 0.18 | 17.3 | 788000 | 0.29 | 25.9 | 733000 | 0.57 | 47.8 | 676000 | 1310000 | |
| | 5588.25 | 0.13 | 16.5 | 994000 | 0.16 | 19.6 | 984000 | 0.26 | 30.4 | 948000 | 0.52 | 54.8 | 853000 | 1310000 | |
| | 6284.23 | 0.12 | 12.8 | 869000 | 0.14 | 15.0 | 845000 | 0.23 | 22.5 | 786000 | 0.46 | 40.5 | 708000 | 1310000 | |
| | 7141.17 | 0.11 | 11.5 | 886000 | 0.13 | 13.4 | 862000 | 0.20 | 20.2 | 802000 | 0.41 | 36.3 | 722000 | 1310000 | |
| | 8198.76 | 0.09 | 9.3 | 825000 | 0.11 | 10.9 | 802000 | 0.18 | 16.3 | 746000 | 0.35 | 30.2 | 690000 | 1310000 | |
| | 8767.77 | 0.09 | 6.9 | 649000 | 0.10 | 8.0 | 631000 | 0.17 | 12.0 | 587000 | 0.33 | 21.6 | 529000 | 1310000 | |
| | 10359.87 | 0.07 | 7.7 | 854000 | 0.09 | 8.9 | 831000 | 0.14 | 13.4 | 773000 | 0.28 | 24.2 | 700000 | 1310000 | |
| | 11772.58 | 0.06 | 6.9 | 871000 | 0.08 | 8.0 | 847000 | 0.12 | 12.0 | 788000 | 0.25 | 21.6 | 710000 | 1310000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-----------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 85001 | 3.84 | 195 | 10959 | 522000 | — | — | — | — | — | — | — | — | — | 1310000 | 336 (H-F) |
| GB 85002 | 14.13 | 53 | 2467 | 422000 | 64 | 2803 | 400000 | — | — | — | — | — | — | 1310000 | 193 (H-F) |
| | 18.97 | 39.5 | 1938 | 445000 | 47.4 | 2202 | 421000 | — | — | — | — | — | — | 1310000 | |
| GB 85003 | 56.52 | 13.3 | 830 | 554000 | 15.9 | 943 | 524000 | 25.7 | 1317 | 455000 | — | — | — | 1310000 | 141 (H-F) |
| | 65.95 | 11.4 | 732 | 570000 | 13.6 | 832 | 539000 | 22.0 | 1161 | 467000 | — | — | — | 1310000 | |
| | 75.90 | 9.9 | 688 | 616000 | 11.9 | 817 | 609000 | 19.1 | 1195 | 554000 | — | — | — | 1310000 | |
| | 88.55 | 8.5 | 595 | 621000 | 10.2 | 706 | 615000 | 16.4 | 1073 | 580000 | — | — | — | 1310000 | |
| GB 85004 | 226.10 | 3.3 | 323 | 840000 | 4.0 | 367 | 795000 | 6.4 | 512 | 689000 | 12.8 | 832 | 560000 | 1310000 | 110 (H-F) |
| | 266.00 | 2.8 | 288 | 882000 | 3.4 | 327 | 835000 | 5.5 | 457 | 723000 | 10.9 | 742 | 588000 | 1310000 | |
| | 310.33 | 2.4 | 250 | 894000 | 2.9 | 288 | 858000 | 4.7 | 403 | 744000 | 9.3 | 654 | 604000 | 1310000 | |
| | 354.18 | 2.1 | 165 | 673000 | 2.5 | 196 | 666000 | 4.1 | 307 | 648000 | 8.2 | 591 | 623000 | 1310000 | |
| | 416.69 | 1.8 | 142 | 679000 | 2.2 | 168 | 672000 | 3.5 | 264 | 654000 | 7.0 | 507 | 628000 | 1310000 | |
| GB 85005 | 805.48 | 0.93 | 112 | 1015000 | 1.1 | 131 | 988000 | 1.8 | 197 | 919000 | 3.6 | 351 | 819000 | 1310000 | 91 (H-F) |
| | 947.62 | 0.79 | 98 | 1041000 | 0.95 | 114 | 1012000 | 1.5 | 171 | 942000 | 3.1 | 313 | 860000 | 1310000 | |
| | 1153.11 | 0.65 | 83 | 1072000 | 0.78 | 97 | 1043000 | 1.3 | 145 | 970000 | 2.5 | 267 | 892000 | 1310000 | |
| | 1261.05 | 0.59 | 55 | 783000 | 0.71 | 65 | 761000 | 1.1 | 97 | 708000 | 2.3 | 183 | 669000 | 1310000 | |
| | 1356.60 | 0.55 | 72 | 1048000 | 0.66 | 84 | 1048000 | 1.1 | 126 | 994000 | 2.1 | 229 | 900000 | 1310000 | |
| | 1582.69 | 0.47 | 59 | 1048000 | 0.57 | 70 | 1041000 | 0.92 | 110 | 1013000 | 1.8 | 200 | 917000 | 1310000 | |
| | 1767.94 | 0.42 | 41.5 | 824000 | 0.51 | 48.5 | 801000 | 0.82 | 73 | 745000 | 1.6 | 133 | 682000 | 1310000 | |
| | 2062.60 | 0.36 | 36.4 | 843000 | 0.44 | 42.5 | 820000 | 0.70 | 64 | 763000 | 1.4 | 115 | 688000 | 1310000 | |
| | 2449.10 | 0.31 | 31.5 | 865000 | 0.37 | 36.8 | 842000 | 0.59 | 55 | 783000 | 1.2 | 99 | 705000 | 1310000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|-----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 85004 | 214.32 | 3.5 | 245 | 594000 | 4.2 | 287 | 580000 | 6.8 | 401 | 503000 | 13.5 | 651 | 409000 | 1310000 | 92 (H-F) |
| | 246.66 | 3.0 | 236 | 659000 | 3.6 | 280 | 652000 | 5.9 | 401 | 579000 | 11.8 | 651 | 470000 | 1310000 | |
| | 287.77 | 2.6 | 204 | 665000 | 3.1 | 242 | 658000 | 5.0 | 380 | 640000 | 10.1 | 651 | 549000 | 1310000 | |
| GBA 85005 | 694.45 | 1.1 | 115 | 882000 | 1.3 | 131 | 835000 | 2.1 | 182 | 724000 | 4.2 | 296 | 588000 | 1310000 | 79 (H-F) |
| | 810.19 | 0.93 | 113 | 1012000 | 1.1 | 131 | 975000 | 1.8 | 182 | 845000 | 3.6 | 296 | 686000 | 1310000 | |
| | 953.16 | 0.79 | 97 | 1022000 | 0.94 | 115 | 1011000 | 1.5 | 173 | 943000 | 3.0 | 296 | 807000 | 1310000 | |
| | 1096.99 | 0.68 | 63 | 766000 | 0.82 | 74 | 745000 | 1.3 | 111 | 694000 | 2.6 | 212 | 664000 | 1310000 | |
| | 1241.33 | 0.60 | 58 | 797000 | 0.73 | 69 | 789000 | 1.2 | 108 | 767000 | 2.3 | 206 | 731000 | 1310000 | |
| | 1448.22 | 0.52 | 58 | 930000 | 0.62 | 69 | 920000 | 1.0 | 108 | 895000 | 2.0 | 206 | 853000 | 1310000 | |
| | 1652.86 | 0.45 | 44.7 | 815000 | 0.54 | 52 | 793000 | 0.88 | 78 | 738000 | 1.8 | 144 | 680000 | 1310000 | |
| | 1944.54 | 0.39 | 38.9 | 836000 | 0.46 | 45.4 | 813000 | 0.75 | 68 | 756000 | 1.7 | 124 | 686000 | 1310000 | |
| GBA 85006 | 2354.48 | 0.32 | 47.1 | 1048000 | 0.38 | 55.0 | 1048000 | 0.62 | 82 | 1048000 | 1.5 | 148 | 973000 | 1310000 | 69 (H-F) |
| | 2745.30 | 0.27 | 41.3 | 1048000 | 0.33 | 48.3 | 1048000 | 0.53 | 72 | 1048000 | 1.2 | 130 | 996000 | 1310000 | |
| | 3202.85 | 0.23 | 33.4 | 1048000 | 0.28 | 39.0 | 1048000 | 0.45 | 59 | 1048000 | 1.1 | 114 | 1014000 | 1310000 | |
| | 3686.14 | 0.20 | 23.2 | 920000 | 0.24 | 27.1 | 895000 | 0.39 | 40.6 | 833000 | 0.91 | 73 | 750000 | 1310000 | |
| | 3965.43 | 0.19 | 30.3 | 1048000 | 0.23 | 35.3 | 1048000 | 0.37 | 52.9 | 1048000 | 0.79 | 95 | 1048000 | 1310000 | |
| | 4490.27 | 0.17 | 25.1 | 1048000 | 0.20 | 29.3 | 1048000 | 0.32 | 43.9 | 1048000 | 0.65 | 83 | 1033000 | 1310000 | |
| | 5156.29 | 0.15 | 22.3 | 1048000 | 0.17 | 26.0 | 1048000 | 0.28 | 39.0 | 1048000 | 0.56 | 73 | 1042000 | 1310000 | |
| | 5426.38 | 0.14 | 23.2 | 1048000 | 0.17 | 27.1 | 1048000 | 0.27 | 40.6 | 1048000 | 0.53 | 73 | 1104000 | 1310000 | |
| | 6330.78 | 0.12 | 18.7 | 1048000 | 0.14 | 21.9 | 1048000 | 0.23 | 32.8 | 1048000 | 0.46 | 60 | 1048000 | 1310000 | |
| | 7099.24 | 0.11 | 13.3 | 1016000 | 0.13 | 15.5 | 989000 | 0.20 | 23.3 | 920000 | 0.41 | 41.9 | 828000 | 1310000 | |
| | 8250.39 | 0.09 | 11.7 | 1040000 | 0.11 | 13.7 | 1012000 | 0.18 | 20.5 | 941000 | 0.35 | 36.9 | 847000 | 1310000 | |
| | 9796.38 | 0.08 | 10.1 | 1048000 | 0.09 | 11.8 | 1038000 | 0.15 | 17.7 | 966000 | 0.30 | 31.9 | 870000 | 1310000 | |
| | 11429.12 | 0.07 | 8.9 | 1048000 | 0.08 | 10.4 | 1048000 | 0.13 | 15.5 | 989000 | 0.25 | 28.0 | 890000 | 1310000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 110001 | 4.32 | 174 | 10073 | 540000 | — | — | — | — | — | — | — | — | — | 2250000 | 584 (H-F) |
| GB 110002 | 14.81 | 51 | 4005 | 718000 | 61 | 4550 | 680000 | — | — | — | — | — | — | 2250000 | 340 (H-F) |
| | 17.67 | 42.4 | 3499 | 749000 | 51 | 3976 | 709000 | — | — | — | — | — | — | 2250000 | |
| | 22.68 | 33.1 | 2853 | 783000 | 39.7 | 3241 | 742000 | — | — | — | — | — | — | 2250000 | |
| | 26.92 | 27.9 | 2499 | 814000 | 33.4 | 2839 | 771000 | — | — | — | — | — | — | 2250000 | |
| GB 110003 | 60.59 | 12.4 | 1336 | 955000 | 14.9 | 1587 | 945000 | 23.9 | 2318 | 857000 | — | — | — | 2250000 | 241 (H-F) |
| | 77.76 | 9.6 | 1056 | 969000 | 11.6 | 1254 | 959000 | 18.6 | 1889 | 897000 | — | — | — | 2250000 | |
| | 92.78 | 8.1 | 897 | 982000 | 9.7 | 1062 | 969000 | 15.6 | 1664 | 943000 | — | — | — | 2250000 | |
| | 110.11 | 6.8 | 776 | 1008000 | 8.2 | 905 | 980000 | 13.2 | 1416 | 952000 | — | — | — | 2250000 | |
| | 119.07 | 6.3 | 726 | 1020000 | 7.6 | 847 | 992000 | 12.2 | 1316 | 956000 | — | — | — | 2250000 | |
| | 141.31 | 5.3 | 628 | 1047000 | 6.4 | 733 | 1018000 | 10.3 | 1119 | 966000 | — | — | — | 2250000 | |
| | 167.71 | 4.5 | 459 | 908000 | 5.4 | 545 | 898000 | 8.6 | 854 | 874000 | — | — | — | 2250000 | |
| GB 110004 | 242.37 | 3.1 | 407 | 1136000 | 3.7 | 475 | 1105000 | 6.0 | 672 | 969000 | 12.0 | 1091 | 787000 | 2250000 | 186 (H-F) |
| | 289.19 | 2.6 | 351 | 1166000 | 3.1 | 409 | 1135000 | 5.0 | 613 | 1056000 | 10.0 | 1091 | 939000 | 2250000 | |
| | 311.04 | 2.4 | 330 | 1179000 | 2.9 | 385 | 1147000 | 4.7 | 577 | 1067000 | 9.3 | 1049 | 971000 | 2250000 | |
| | 365.93 | 2.0 | 287 | 1209000 | 2.5 | 335 | 1176000 | 4.0 | 502 | 1094000 | 7.9 | 905 | 985000 | 2250000 | |
| | 440.46 | 1.7 | 245 | 1243000 | 2.0 | 286 | 1209000 | 3.3 | 429 | 1125000 | 6.6 | 773 | 1013000 | 2250000 | |
| | 518.19 | 1.4 | 214 | 1274000 | 1.7 | 249 | 1239000 | 2.8 | 374 | 1153000 | 5.6 | 673 | 1038000 | 2250000 | |
| | 560.33 | 1.3 | 193 | 1247000 | 1.6 | 227 | 1220000 | 2.6 | 350 | 1167000 | 5.2 | 630 | 1051000 | 2250000 | |
| | 665.01 | 1.1 | 167 | 1280000 | 1.4 | 195 | 1245000 | 2.2 | 303 | 1197000 | 4.4 | 545 | 1078000 | 2250000 | |
| | 789.24 | 0.95 | 112 | 1016000 | 1.1 | 131 | 988000 | 1.8 | 203 | 955000 | 3.7 | 391 | 918000 | 2250000 | |
| GB 110005 | 863.44 | 0.87 | 142 | 1376000 | 1.0 | 163 | 1320000 | 1.7 | 228 | 1144000 | 3.4 | 371 | 929000 | 2250000 | 152 (H-F) |
| | 1015.81 | 0.74 | 124 | 1411000 | 0.89 | 144 | 1372000 | 1.4 | 217 | 1277000 | 2.9 | 371 | 1093000 | 2250000 | |
| | 1108.08 | 0.68 | 115 | 1429000 | 0.81 | 134 | 1390000 | 1.3 | 201 | 1294000 | 2.6 | 362 | 1165000 | 2250000 | |
| | 1236.08 | 0.61 | 105 | 1453000 | 0.73 | 122 | 1413000 | 1.2 | 171 | 1225000 | 2.3 | 277 | 995000 | 2250000 | |
| | 1413.24 | 0.53 | 94 | 1483000 | 0.64 | 109 | 1442000 | 1.0 | 164 | 1342000 | 2.1 | 295 | 1208000 | 2250000 | |
| | 1474.87 | 0.51 | 90 | 1492000 | 0.61 | 105 | 1452000 | 0.98 | 158 | 1351000 | 2.0 | 277 | 1187000 | 2250000 | |
| | 1586.30 | 0.47 | 84 | 1490000 | 0.57 | 99 | 1468000 | 0.91 | 148 | 1366000 | 1.8 | 267 | 1230000 | 2250000 | |
| | 1735.14 | 0.43 | 79 | 1530000 | 0.52 | 92 | 1488000 | 0.84 | 137 | 1384000 | 1.7 | 248 | 1247000 | 2250000 | |
| | 1996.17 | 0.38 | 67 | 1511000 | 0.45 | 79 | 1470000 | 0.73 | 118 | 1368000 | 1.5 | 213 | 1231000 | 2250000 | |
| | 2246.34 | 0.33 | 57 | 1439000 | 0.40 | 68 | 1424000 | 0.65 | 106 | 1386000 | 1.3 | 199 | 1296000 | 2250000 | |
| | 2509.23 | 0.30 | 56 | 1587000 | 0.36 | 66 | 1544000 | 0.58 | 101 | 1464000 | 1.2 | 181 | 1318000 | 2250000 | |
| | 2857.68 | 0.26 | 49.8 | 1595000 | 0.31 | 58 | 1552000 | 0.51 | 87 | 1444000 | 1.0 | 157 | 1300000 | 2250000 | |
| | 3263.09 | 0.23 | 44.5 | 1628000 | 0.28 | 52 | 1583000 | 0.44 | 78 | 1473000 | 0.89 | 140 | 1327000 | 2250000 | |
| | 3553.28 | 0.21 | 38.3 | 1527000 | 0.25 | 44.7 | 1485000 | 0.41 | 69 | 1422000 | 0.82 | 133 | 1367000 | 2250000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-------------------|-------------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 110005 | 744.42 | 1.0 | 115 | 946000 | 1.2 | 131 | 896000 | 1.9 | 182 | 776000 | 3.9 | 296 | 630000 | 2250000 | 131 (H-F) |
| | 888.23 | 0.84 | 115 | 1129000 | 1.0 | 131 | 1069000 | 1.6 | 182 | 926000 | 3.3 | 296 | 752000 | 2250000 | |
| | 1044.97 | 0.72 | 115 | 1328000 | 0.86 | 131 | 1257000 | 1.4 | 182 | 1090000 | 2.8 | 296 | 885000 | 2250000 | |
| | 1123.93 | 0.67 | 115 | 1428000 | 0.80 | 131 | 1352000 | 1.3 | 182 | 1172000 | 2.6 | 296 | 952000 | 2250000 | |
| | 1333.89 | 0.56 | 80 | 1182000 | 0.67 | 95 | 1170000 | 1.1 | 149 | 1139000 | 2.2 | 296 | 960000 | 2250000 | |
| | 1462.86 | 0.51 | 89 | 1442000 | 0.62 | 104 | 1402000 | 0.99 | 156 | 1305000 | 2.0 | 288 | 1205000 | 2250000 | |
| | 1591.57 | 0.47 | 80 | 1411000 | 0.57 | 95 | 1396000 | 0.91 | 149 | 1359000 | 1.8 | 271 | 1230000 | 2250000 | |
| | 1736.14 | 0.43 | 77 | 1479000 | 0.52 | 90 | 1439000 | 0.84 | 135 | 1339000 | 1.7 | 245 | 1217000 | 2250000 | |
| | 2042.52 | 0.37 | 67 | 1516000 | 0.44 | 78 | 1475000 | 0.71 | 118 | 1372000 | 1.4 | 212 | 1236000 | 2250000 | |
| | 2222.64 | 0.34 | 54 | 1445000 | 0.40 | 69 | 1412000 | 0.65 | 108 | 1374000 | 1.3 | 197 | 1252000 | 2250000 | |
| | 2418.20 | 0.31 | 54 | 1576000 | 0.37 | 64 | 1430000 | 0.60 | 101 | 1391000 | 1.2 | 190 | 1311000 | 2250000 | |
| | 2637.86 | 0.28 | 47 | 1615000 | 0.34 | 63 | 1533000 | 0.55 | 95 | 1427000 | 1.1 | 170 | 1285000 | 2250000 | |
| | 3103.36 | 0.24 | 36.5 | 1250000 | 0.29 | 55 | 1571000 | 0.47 | 82 | 1462000 | 0.93 | 148 | 1316000 | 2250000 | |
| | 3683.11 | 0.20 | 31.5 | 1283000 | 0.24 | 36.8 | 1248000 | 0.39 | 55 | 1161000 | 0.79 | 99 | 1045000 | 2250000 | |
| | GBA 110006 | 2523.90 | 0.30 | 60 | 1619000 | 0.36 | 70 | 1575000 | 0.57 | 104 | 1465000 | 1.1 | 182 | 1282000 | |
| 2969.29 | | 0.25 | 52 | 1659000 | 0.30 | 61 | 1614000 | 0.49 | 91 | 1502000 | 1.0 | 163 | 1352000 | 2250000 | |
| 3239.00 | | 0.23 | 47.3 | 1649000 | 0.28 | 55 | 1604000 | 0.45 | 83 | 1495000 | 0.90 | 152 | 1370000 | 2250000 | |
| 3542.91 | | 0.21 | 44.7 | 1704000 | 0.25 | 52 | 1658000 | 0.41 | 78 | 1542000 | 0.82 | 141 | 1389000 | 2250000 | |
| 3864.72 | | 0.19 | 41.5 | 1727000 | 0.23 | 48.4 | 1680000 | 0.38 | 73 | 1563000 | 0.75 | 131 | 1407000 | 2250000 | |
| 4506.23 | | 0.17 | 36.4 | 1767000 | 0.20 | 42.5 | 1719000 | 0.32 | 62 | 1547000 | 0.64 | 115 | 1440000 | 2250000 | |
| 5071.95 | | 0.15 | 32.9 | 1799000 | 0.18 | 38.4 | 1750000 | 0.29 | 58 | 1628000 | 0.57 | 104 | 1466000 | 2250000 | |
| 5652.95 | | 0.13 | 30.0 | 1800000 | 0.16 | 35.1 | 1779000 | 0.26 | 53 | 1655000 | 0.51 | 95 | 1490000 | 2250000 | |
| 6317.56 | | 0.12 | 27.3 | 1800000 | 0.14 | 31.9 | 1800000 | 0.23 | 47.8 | 1683000 | 0.46 | 86 | 1516000 | 2250000 | |
| 7100.24 | | 0.11 | 23.9 | 1800000 | 0.13 | 27.9 | 1781000 | 0.20 | 41.9 | 1657000 | 0.41 | 75 | 1492000 | 2250000 | |
| 7925.21 | | 0.09 | 22.5 | 1800000 | 0.11 | 26.3 | 1800000 | 0.18 | 39.5 | 1742000 | 0.37 | 71 | 1569000 | 2250000 | |
| 8907.05 | | 0.08 | 20.4 | 1800000 | 0.10 | 23.8 | 1800000 | 0.16 | 34.6 | 1715000 | 0.33 | 64 | 1597000 | 2250000 | |
| 9913.71 | | 0.08 | 18.0 | 1800000 | 0.09 | 21.1 | 1800000 | 0.15 | 31.6 | 1743000 | 0.29 | 57 | 1569000 | 2250000 | |
| 11231.22 | | 0.07 | 16.2 | 1800000 | 0.08 | 18.9 | 1800000 | 0.13 | 28.4 | 1776000 | 0.26 | 51 | 1599000 | 2250000 | |
| 12081.15 | | 0.06 | 14.1 | 1800000 | 0.07 | 16.5 | 1787000 | 0.12 | 24.7 | 1663000 | 0.24 | 44.5 | 1497000 | 2250000 | |
| 14213.12 | | 0.05 | 12.3 | 1800000 | 0.06 | 14.4 | 1800000 | 0.10 | 21.5 | 1704000 | 0.20 | 38.8 | 1535000 | 2250000 | |
| 15819.46 | | 0.05 | 9.4 | 1599000 | 0.06 | 11.0 | 1556000 | 0.09 | 16.4 | 1447000 | 0.18 | 29.6 | 1303000 | 2250000 | |
| 18240.17 | | 0.04 | 10.7 | 1800000 | 0.05 | 12.5 | 1800000 | 0.08 | 18.8 | 1800000 | 0.16 | 33.9 | 1721000 | 2250000 | |
| 21647.68 | 0.03 | 7.2 | 1677000 | 0.04 | 8.4 | 1631000 | 0.07 | 12.6 | 1518000 | 0.13 | 22.7 | 1367000 | 2250000 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 130001 | 4.32 | 174 | 13431 | 720000 | — | — | — | — | — | — | — | — | — | 2720000 | 585 (H-F) |
| GB 130002 | 16.56 | 45.3 | 4914 | 985000 | 54 | 5583 | 933000 | — | — | — | — | — | — | 2720000 | 340 (H-F) |
| GB 130003 | 63.48 | 11.8 | 1551 | 1162000 | 14.2 | 1842 | 1150000 | 22.8 | 2888 | 1119000 | — | — | — | 2720000 | 243 (H-F) |
| | 72.86 | 10.3 | 1362 | 1171000 | 12.4 | 1618 | 1159000 | 19.9 | 2536 | 1128000 | — | — | — | 2720000 | |
| GB 130004 | 243.76 | 3.1 | 479 | 1342000 | 3.7 | 559 | 1306000 | 5.9 | 837 | 1215000 | — | — | — | 2720000 | 190 (H-F) |
| | 279.80 | 2.7 | 426 | 1370000 | 3.2 | 497 | 1333000 | 5.2 | 745 | 1240000 | — | — | — | 2720000 | |
| | 328.60 | 2.3 | 371 | 1404000 | 2.7 | 434 | 1366000 | 4.4 | 650 | 1271000 | — | — | — | 2720000 | |
| | 377.18 | 2.0 | 330 | 1434000 | 2.4 | 386 | 1395000 | 3.8 | 578 | 1298000 | — | — | — | 2720000 | |
| GB 130005 | 835.76 | 0.90 | 172 | 1617000 | 1.1 | 201 | 1573000 | 1.7 | 302 | 1464000 | 3.5 | 544 | 1318000 | 2720000 | 156 (H-F) |
| | 997.21 | 0.75 | 148 | 1661000 | 0.90 | 173 | 1616000 | 1.5 | 260 | 1503000 | 2.9 | 468 | 1354000 | 2720000 | |
| | 1126.64 | 0.67 | 134 | 1692000 | 0.80 | 156 | 1646000 | 1.3 | 234 | 1531000 | 2.6 | 422 | 1379000 | 2720000 | |
| | 1293.18 | 0.58 | 119 | 1728000 | 0.70 | 139 | 1681000 | 1.1 | 208 | 1564000 | 2.2 | 375 | 1408000 | 2720000 | |
| | 1468.94 | 0.51 | 107 | 1761000 | 0.61 | 125 | 1713000 | 0.99 | 187 | 1594000 | 2.0 | 337 | 1435000 | 2720000 | |
| | 1543.00 | 0.49 | 102 | 1774000 | 0.58 | 120 | 1726000 | 0.94 | 179 | 1606000 | 1.9 | 323 | 1446000 | 2720000 | |
| | 1725.16 | 0.43 | 93 | 1805000 | 0.52 | 109 | 1756000 | 0.84 | 163 | 1633000 | 1.7 | 294 | 1471000 | 2720000 | |
| | 1980.19 | 0.38 | 83 | 1843000 | 0.45 | 97 | 1793000 | 0.73 | 145 | 1668000 | 1.5 | 261 | 1502000 | 2720000 | |
| 2350.11 | 0.32 | 72 | 1891000 | 0.38 | 84 | 1840000 | 0.62 | 125 | 1712000 | 1.2 | 226 | 1541000 | 2720000 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|-------------------|-----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GBA 130005 | 909.34 | 0.82 | 163 | 1638000 | 0.99 | 190 | 1593000 | 1.6 | 285 | 1483000 | 3.2 | 514 | 1335000 | 2720000 | 135 (H-F) |
| | 1067.96 | 0.70 | 142 | 1678000 | 0.84 | 166 | 1633000 | 1.4 | 249 | 1519000 | 2.7 | 448 | 1368000 | 2720000 | |
| | 1225.83 | 0.61 | 127 | 1714000 | 0.73 | 148 | 1667000 | 1.2 | 221 | 1551000 | 2.4 | 399 | 1397000 | 2720000 | |
| GBA 130006 | 2566.98 | 0.29 | 69 | 1916000 | 0.35 | 81 | 1864000 | 0.56 | 121 | 1735000 | 1.1 | 218 | 1562000 | 2720000 | 118 (H-F) |
| | 3062.87 | 0.24 | 60 | 1968000 | 0.29 | 70 | 1915000 | 0.47 | 104 | 1782000 | 0.95 | 188 | 1604000 | 2720000 | |
| | 3515.64 | 0.21 | 53 | 2010000 | 0.26 | 62 | 1955000 | 0.41 | 93 | 1819000 | 0.82 | 167 | 1638000 | 2720000 | |
| | 3971.92 | 0.19 | 47.9 | 2047000 | 0.23 | 56 | 1992000 | 0.37 | 84 | 1853000 | 0.73 | 151 | 1668000 | 2720000 | |
| | 4476.76 | 0.17 | 43.2 | 2085000 | 0.20 | 50 | 2028000 | 0.32 | 76 | 1887000 | 0.65 | 136 | 1699000 | 2720000 | |
| | 5257.64 | 0.14 | 37.7 | 2136000 | 0.17 | 44.0 | 2078000 | 0.28 | 66 | 1933000 | 0.55 | 119 | 1741000 | 2720000 | |
| | 5972.20 | 0.13 | 33.9 | 2176000 | 0.15 | 39.5 | 2118000 | 0.24 | 59 | 1971000 | 0.49 | 107 | 1775000 | 2720000 | |
| | 6288.58 | 0.12 | 32.4 | 2176000 | 0.14 | 37.8 | 2135000 | 0.23 | 57 | 1986000 | 0.46 | 102 | 1789000 | 2720000 | |
| | 7087.88 | 0.11 | 29.3 | 2176000 | 0.13 | 34.2 | 2174000 | 0.20 | 51 | 2023000 | 0.41 | 92 | 1821000 | 2720000 | |
| | 8050.76 | 0.09 | 26.3 | 2176000 | 0.11 | 30.7 | 2176000 | 0.18 | 46.0 | 2062000 | 0.36 | 83 | 1857000 | 2720000 | |
| | 9554.75 | 0.08 | 22.7 | 2176000 | 0.09 | 26.5 | 2176000 | 0.15 | 39.8 | 2116000 | 0.30 | 72 | 1905000 | 2720000 | |
| | 10967.19 | 0.07 | 20.2 | 2176000 | 0.08 | 23.6 | 2176000 | 0.13 | 35.4 | 2161000 | 0.26 | 64 | 1946000 | 2720000 | |

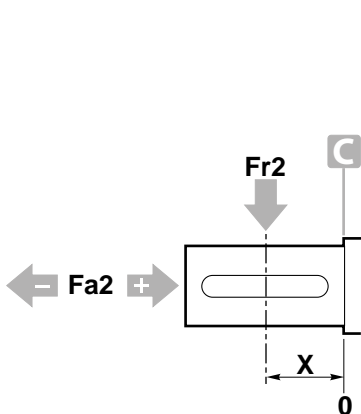
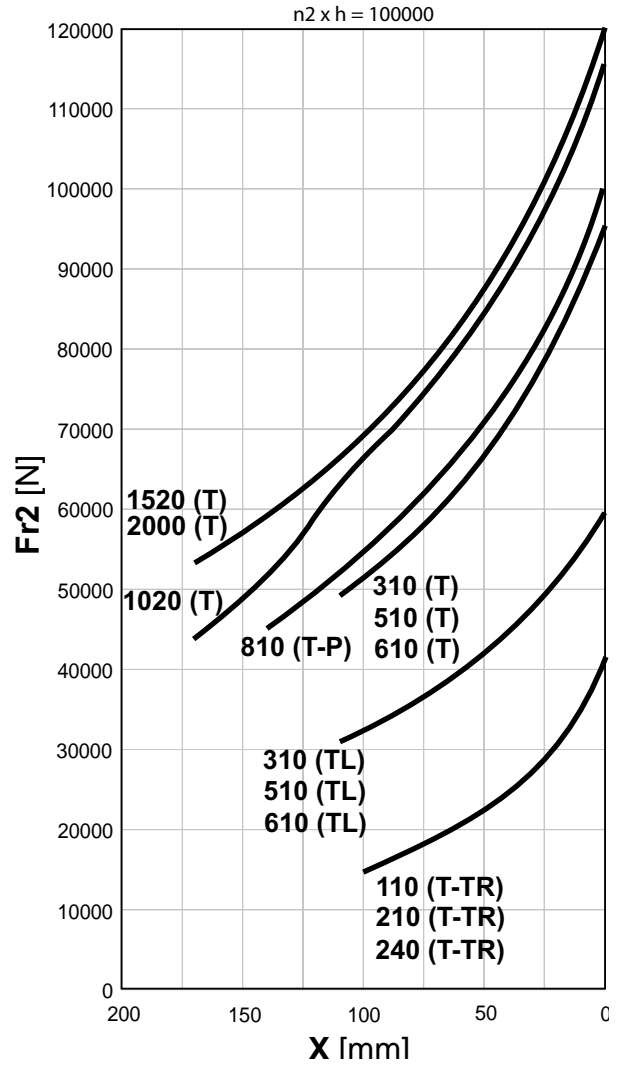
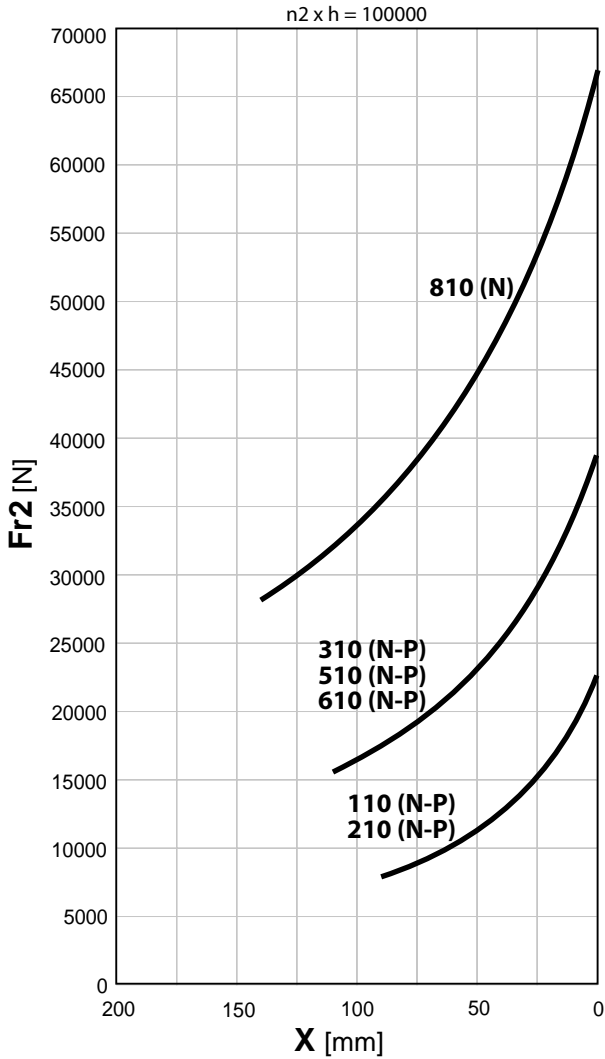
| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 150001 | 4.07 | — | — | — | — | — | — | — | — | — | — | — | — | 2720000 | 585 (H-F) |
| GB 150002 | 15.62 | 48.0 | 4914 | 929000 | 58 | 5583 | 880000 | — | — | — | — | — | — | 2720000 | 340 (H-F) |
| GB 150003 | 59.87 | 12.5 | 1968 | 1390000 | 15.0 | 2236 | 1316000 | 24.2 | 3122 | 1141000 | — | — | — | 2720000 | 246 (H-F) |
| | 68.72 | 10.9 | 1742 | 1413000 | 13.1 | 2030 | 1372000 | 21.1 | 2834 | 1189000 | — | — | — | 2720000 | |
| GB 150004 | 248.02 | 3.0 | 563 | 1607000 | 3.6 | 657 | 1563000 | 5.8 | 986 | 1456000 | — | — | — | 2720000 | 192 (H-F) |
| | 284.68 | 2.6 | 501 | 1640000 | 3.2 | 585 | 1596000 | 5.1 | 876 | 1485000 | — | — | — | 2720000 | |
| | 323.28 | 2.3 | 450 | 1672000 | 2.8 | 525 | 1627000 | 4.5 | 787 | 1513000 | — | — | — | 2720000 | |
| | 371.07 | 2.0 | 400 | 1707000 | 2.4 | 467 | 1661000 | 3.9 | 700 | 1545000 | — | — | — | 2720000 | |
| | 389.13 | 1.9 | 384 | 1720000 | 2.3 | 448 | 1673000 | 3.7 | 672 | 1557000 | — | — | — | 2720000 | |
| | 446.65 | 1.7 | 342 | 1756000 | 2.0 | 399 | 1708000 | 3.2 | 598 | 1589000 | — | — | — | 2720000 | |
| GB 150005 | 950.73 | 0.79 | 185 | 1969000 | 0.95 | 215 | 1915000 | 1.5 | 323 | 1782000 | 3.05 | 582 | 1604000 | 2720000 | 158 (H-F) |
| | 1091.28 | 0.69 | 164 | 2010000 | 0.82 | 192 | 1955000 | 1.3 | 287 | 1819000 | 2.66 | 517 | 1638000 | 2720000 | |
| | 1239.23 | 0.61 | 147 | 2049000 | 0.73 | 172 | 1993000 | 1.2 | 258 | 1855000 | 2.34 | 464 | 1670000 | 2720000 | |
| | 1302.09 | 0.58 | 141 | 2065000 | 0.69 | 165 | 2008000 | 1.1 | 247 | 1869000 | 2.23 | 445 | 1683000 | 2720000 | |
| | 1422.42 | 0.53 | 131 | 2092000 | 0.63 | 153 | 2035000 | 1.0 | 229 | 1894000 | 2.04 | 413 | 1705000 | 2720000 | |
| | 1491.67 | 0.50 | 119 | 1999000 | 0.60 | 142 | 1978000 | 0.97 | 220 | 1907000 | 1.94 | 397 | 1718000 | 2720000 | |
| | 1494.57 | 0.50 | 126 | 2108000 | 0.60 | 147 | 2051000 | 0.97 | 220 | 1908000 | 1.94 | 396 | 1718000 | 2720000 | |
| | 1697.21 | 0.44 | 113 | 2149000 | 0.53 | 132 | 2091000 | 0.85 | 197 | 1945000 | 1.71 | 356 | 1751000 | 2720000 | |
| | 1712.17 | 0.44 | 112 | 2152000 | 0.53 | 131 | 2093000 | 0.85 | 196 | 1948000 | 1.69 | 353 | 1754000 | 2720000 | |
| | 1948.10 | 0.38 | 100 | 2176000 | 0.46 | 117 | 2135000 | 0.74 | 176 | 1986000 | 1.49 | 316 | 1788000 | 2720000 | |
| | 2042.94 | 0.37 | 89 | 2035000 | 0.44 | 105 | 2014000 | 0.71 | 165 | 1960000 | 1.42 | 304 | 1801000 | 2720000 | |
| | 2344.94 | 0.32 | 86 | 2176000 | 0.38 | 100 | 2176000 | 0.62 | 150 | 2043000 | 1.24 | 270 | 1839000 | 2720000 | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 205001 | 4.14 | — | — | — | — | — | — | — | — | — | — | — | 3620000 | 870 (H-F) | |
| GB 205002 | 15.89 | 47.2 | 6744 | 1297000 | — | — | — | — | — | — | — | — | 3620000 | 498 (H-F) | |
| | 22.50 | 33.3 | 4422 | 1204000 | — | — | — | — | — | — | — | — | 3620000 | | |
| GB 205003 | 58.47 | 12.8 | 2530 | 1746000 | 15.4 | 2875 | 1653000 | — | — | — | — | — | 3620000 | 357 (H-F) | |
| | 78.51 | 9.6 | 1988 | 1842000 | 11.5 | 2259 | 1744000 | — | — | — | — | — | 3620000 | | |
| | 82.80 | 9.1 | 1328 | 1297000 | 10.9 | 1577 | 1284000 | — | — | — | — | — | 3620000 | | |
| | 111.18 | 6.7 | 1006 | 1319000 | 8.1 | 1194 | 1306000 | — | — | — | — | — | 3620000 | | |
| GB 205004 | 239.21 | 3.1 | 834 | 2296000 | 3.8 | 974 | 2234000 | 6.1 | 1460 | 2078000 | — | — | 3620000 | 280 (H-F) | |
| | 306.99 | 2.4 | 669 | 2362000 | 2.9 | 788 | 2320000 | 4.7 | 1181 | 2158000 | — | — | 3620000 | | |
| | 321.19 | 2.3 | 642 | 2371000 | 2.8 | 758 | 2336000 | 4.5 | 1137 | 2173000 | — | — | 3620000 | | |
| | 338.73 | 2.2 | 361 | 1406000 | 2.7 | 428 | 1392000 | 4.3 | 672 | 1354000 | — | — | 3620000 | | |
| | 364.34 | 2.1 | 576 | 2417000 | 2.5 | 676 | 2361000 | 4.0 | 1021 | 2215000 | — | — | 3310000 | | |
| | 412.20 | 1.8 | 519 | 2462000 | 2.2 | 606 | 2395000 | 3.5 | 920 | 2257000 | — | — | 3620000 | | |
| | 434.70 | 1.7 | 285 | 1426000 | 2.1 | 339 | 1411000 | 3.3 | 531 | 1374000 | — | — | 3620000 | | |
| | 454.81 | 1.6 | 273 | 1430000 | 2.0 | 324 | 1415000 | 3.2 | 509 | 1377000 | — | — | 3620000 | | |
| | 489.20 | 1.5 | 449 | 2527000 | 1.8 | 524 | 2458000 | 3.0 | 795 | 2316000 | — | — | 3310000 | | |
| | 515.91 | 1.5 | 244 | 1446000 | 1.7 | 288 | 1425000 | 2.8 | 452 | 1387000 | — | — | 3620000 | | |
| | 583.68 | 1.3 | 219 | 1473000 | 1.5 | 256 | 1435000 | 2.5 | 402 | 1397000 | — | — | 3620000 | | |
| | 692.71 | 1.1 | 190 | 1512000 | 1.3 | 221 | 1470000 | 2.1 | 342 | 1411000 | — | — | 3620000 | | |
| GB 205005 | 956.85 | 0.78 | 261 | 2797000 | 0.94 | 304 | 2721000 | 1.5 | 456 | 2532000 | 3.0 | 831 | 2308000 | 3620000 | 230 (H-F) |
| | 1125.70 | 0.67 | 227 | 2867000 | 0.80 | 265 | 2789000 | 1.3 | 397 | 2595000 | 2.6 | 721 | 2355000 | 3620000 | |
| | 1227.95 | 0.61 | 211 | 2896000 | 0.73 | 246 | 2826000 | 1.2 | 369 | 2629000 | 2.4 | 664 | 2367000 | 3620000 | |
| | 1284.77 | 0.58 | 192 | 2762000 | 0.70 | 228 | 2733000 | 1.1 | 355 | 2647000 | 2.3 | 639 | 2383000 | 3620000 | |
| | 1354.91 | 0.55 | 110 | 2896000 | 0.66 | 128 | 2896000 | 1.1 | 193 | 1514000 | 2.1 | 358 | 1409000 | 3620000 | |
| | 1444.65 | 0.52 | 184 | 2896000 | 0.62 | 214 | 2900000 | 1.0 | 321 | 2694000 | 2.0 | 579 | 2426000 | 3620000 | |
| | 1457.35 | 0.51 | 182 | 2788000 | 0.62 | 213 | 2759000 | 0.99 | 319 | 2698000 | 2.0 | 575 | 2429000 | 3620000 | |
| | 1511.49 | 0.50 | 164 | 1715000 | 0.60 | 195 | 1668000 | 0.96 | 306 | 2685000 | 1.9 | 557 | 2443000 | 3310000 | |
| | 1594.01 | 0.47 | 96 | 2802000 | 0.56 | 112 | 2773000 | 0.91 | 168 | 1552000 | 1.8 | 307 | 1422000 | 3620000 | |
| | 1648.79 | 0.45 | 151 | 2896000 | 0.55 | 180 | 2896000 | 0.88 | 282 | 2698000 | 1.8 | 517 | 2475000 | 3620000 | |
| | 1714.53 | 0.44 | 159 | 1737000 | 0.52 | 185 | 1690000 | 0.85 | 278 | 2765000 | 1.7 | 500 | 2490000 | 3310000 | |
| | 1738.80 | 0.43 | 89 | 1749000 | 0.52 | 104 | 1702000 | 0.83 | 156 | 1573000 | 1.7 | 283 | 1429000 | 3310000 | |
| | 1819.25 | 0.41 | 86 | 2828000 | 0.49 | 100 | 2798000 | 0.80 | 150 | 1583000 | 1.6 | 271 | 1433000 | 3620000 | |
| | 1939.75 | 0.39 | 130 | 2829000 | 0.46 | 154 | 2800000 | 0.75 | 242 | 2723000 | 1.5 | 451 | 2537000 | 3620000 | |
| | 1956.80 | 0.38 | 129 | 1783000 | 0.46 | 153 | 1735000 | 0.74 | 240 | 2725000 | 1.5 | 447 | 2540000 | 3310000 | |
| | 2045.65 | 0.37 | 78 | 1793000 | 0.44 | 91 | 1744000 | 0.71 | 136 | 1612000 | 1.4 | 244 | 1451000 | 3310000 | |
| | 2063.63 | 0.36 | 77 | 2861000 | 0.44 | 90 | 2826000 | 0.70 | 135 | 1614000 | 1.4 | 243 | 1453000 | 3620000 | |
| | 2140.30 | 0.35 | 75 | 1827000 | 0.42 | 87 | 1778000 | 0.68 | 131 | 1623000 | 1.4 | 235 | 1461000 | 3310000 | |
| | 2302.12 | 0.33 | 111 | 1862000 | 0.39 | 131 | 1811000 | 0.63 | 206 | 2750000 | 1.3 | 390 | 2603000 | 3310000 | |
| | 2334.71 | 0.32 | 69 | 1864000 | 0.39 | 81 | 1814000 | 0.62 | 121 | 1644000 | 1.2 | 219 | 1481000 | 3310000 | |
| | 2427.80 | 0.31 | 67 | 1911000 | 0.37 | 78 | 1859000 | 0.60 | 117 | 1654000 | 1.2 | 211 | 1489000 | 3310000 | |
| | 2746.71 | 0.27 | 60 | 1862000 | 0.33 | 71 | 1811000 | 0.53 | 106 | 1685000 | 1.1 | 190 | 1517000 | 3293000 | |
| 2770.86 | 0.27 | 60 | 1864000 | 0.32 | 70 | 1814000 | 0.52 | 105 | 1687000 | 1.0 | 189 | 1519000 | 3293000 | | |
| 3259.83 | 0.23 | 52 | 1911000 | 0.28 | 61 | 1859000 | 0.44 | 91 | 1729000 | 0.89 | 165 | 1557000 | 3293000 | | |

| | ie | n ₁ = 750 RPM | | | n ₁ = 900 RPM | | | n ₁ = 1450 RPM | | | n ₁ = 2900 RPM | | | T _{2max} [Nm] | P _t [kW] |
|------------------|----------------|--------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
| | | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | n ₂ [RPM] | P ₁ [kW] | T ₂ [Nm] | | |
| GB 235001 | 4.14 | — | — | — | — | — | — | — | — | — | — | — | — | 3620000 | 870 (H-F) |
| GB 235002 | 15.89 | 47.2 | 8992 | 1730000 | — | — | — | — | — | — | — | — | — | 3620000 | 508 (H-F) |
| GB 235003 | 54.48 | 13.8 | 3467 | 2229000 | 16.5 | 4118 | 2206000 | — | — | — | — | — | — | 3620000 | 371 (H-F) |
| | 65.00 | 11.5 | 2936 | 2252000 | 13.8 | 3486 | 2229000 | — | — | — | — | — | — | 3620000 | |
| | 83.42 | 9.0 | 2320 | 2284000 | 10.8 | 2755 | 2261000 | — | — | — | — | — | — | 3620000 | |
| | 99.00 | 7.6 | 1974 | 2307000 | 9.1 | 2345 | 2283000 | — | — | — | — | — | — | 3620000 | |
| GB 235004 | 222.87 | 3.4 | 984 | 2522000 | 4.0 | 1148 | 2454000 | 6.5 | 1754 | 2327000 | — | — | — | 3620000 | 291 (H-F) |
| | 265.92 | 2.8 | 847 | 2591000 | 3.4 | 988 | 2520000 | 5.5 | 1485 | 2351000 | — | — | — | 3620000 | |
| | 286.01 | 2.6 | 796 | 2619000 | 3.1 | 929 | 2548000 | 5.1 | 1393 | 2371000 | — | — | — | 3620000 | |
| | 339.44 | 2.2 | 688 | 2688000 | 2.7 | 803 | 2615000 | 4.3 | 1204 | 2433000 | — | — | — | 3620000 | |
| | 341.27 | 2.2 | 685 | 2690000 | 2.6 | 800 | 2617000 | 4.2 | 1199 | 2435000 | — | — | — | 3620000 | |
| | 341.27 | 2.2 | 685 | 2690000 | 2.2 | 692 | 2686000 | 4.2 | 1199 | 2435000 | — | — | — | 3620000 | |
| | 405.02 | 1.9 | 592 | 2761000 | 2.1 | 647 | 2718000 | 3.6 | 1037 | 2499000 | — | — | — | 3620000 | |
| | 437.96 | 1.7 | 554 | 2794000 | 1.7 | 560 | 2789000 | 3.3 | 970 | 2529000 | — | — | — | 3620000 | |
| | 519.78 | 1.4 | 479 | 2867000 | 1.7 | 560 | 2789000 | 2.8 | 839 | 2595000 | — | — | — | 3620000 | |
| | 616.88 | 1.2 | 415 | 2896000 | 1.5 | 484 | 2862000 | 2.4 | 725 | 2663000 | — | — | — | 3620000 | |
| GB 235005 | 891.47 | 0.84 | 311 | 2896000 | 1.0 | 363 | 2896000 | 1.6 | 544 | 2816000 | 3.3 | 980 | 2535000 | 3620000 | 238 (H-F) |
| | 1048.79 | 0.72 | 271 | 2896000 | 0.86 | 316 | 2896000 | 1.4 | 474 | 2886000 | 2.8 | 854 | 2599000 | 3620000 | |
| | 1063.69 | 0.71 | 268 | 2896000 | 0.85 | 313 | 2896000 | 1.4 | 469 | 2892000 | 2.7 | 844 | 2604000 | 3620000 | |
| | 1144.06 | 0.66 | 252 | 2896000 | 0.79 | 294 | 2896000 | 1.3 | 440 | 2896000 | 2.5 | 793 | 2633000 | 3620000 | |
| | 1251.40 | 0.60 | 233 | 2896000 | 0.72 | 272 | 2896000 | 1.2 | 408 | 2896000 | 2.3 | 735 | 2669000 | 3620000 | |
| | 1345.95 | 0.56 | 219 | 2896000 | 0.67 | 256 | 2896000 | 1.1 | 384 | 2896000 | 2.2 | 691 | 2698000 | 3620000 | |
| | 1357.78 | 0.55 | 218 | 2896000 | 0.66 | 254 | 2896000 | 1.1 | 381 | 2896000 | 2.1 | 686 | 2702000 | 3620000 | |
| | 1365.07 | 0.55 | 217 | 2896000 | 0.66 | 253 | 2896000 | 1.1 | 379 | 2896000 | 2.1 | 683 | 2704000 | 3620000 | |
| | 1597.39 | 0.47 | 190 | 2896000 | 0.56 | 221 | 2896000 | 0.91 | 332 | 2896000 | 1.8 | 597 | 2769000 | 3620000 | |
| | 1605.96 | 0.47 | 189 | 2896000 | 0.56 | 220 | 2896000 | 0.90 | 330 | 2896000 | 1.8 | 595 | 2772000 | 3620000 | |
| | 1620.08 | 0.46 | 187 | 2896000 | 0.56 | 219 | 2896000 | 0.90 | 328 | 2896000 | 1.8 | 590 | 2775000 | 3620000 | |
| | 1751.83 | 0.43 | 175 | 2896000 | 0.51 | 205 | 2896000 | 0.83 | 307 | 2896000 | 1.7 | 552 | 2808000 | 3620000 | |
| | 1905.97 | 0.39 | 163 | 2896000 | 0.47 | 191 | 2896000 | 0.76 | 286 | 2896000 | 1.5 | 514 | 2844000 | 3620000 | |
| | 2060.98 | 0.36 | 153 | 2896000 | 0.44 | 178 | 2896000 | 0.70 | 267 | 2896000 | 1.4 | 481 | 2878000 | 3620000 | |
| | 2079.10 | 0.36 | 152 | 2896000 | 0.43 | 177 | 2896000 | 0.70 | 265 | 2896000 | 1.4 | 478 | 2882000 | 3620000 | |
| | 2446.00 | 0.31 | 132 | 2896000 | 0.37 | 154 | 2896000 | 0.59 | 231 | 2896000 | 1.2 | 416 | 2896000 | 3620000 | |
| | 2467.50 | 0.30 | 131 | 2896000 | 0.36 | 153 | 2896000 | 0.59 | 229 | 2896000 | 1.2 | 413 | 2896000 | 3620000 | |
| 2902.95 | 0.26 | 114 | 2896000 | 0.31 | 133 | 2896000 | 0.50 | 200 | 2896000 | 1.0 | 360 | 2896000 | 3620000 | | |

N (110-210-310-510-810) - **P** (110-210-310-510-610)

T (240-310-510-810-1020-1520-2000) - **TL** (310-510) - **P** (810-1020)



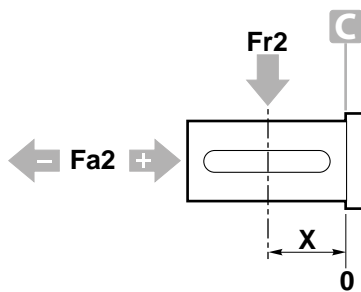
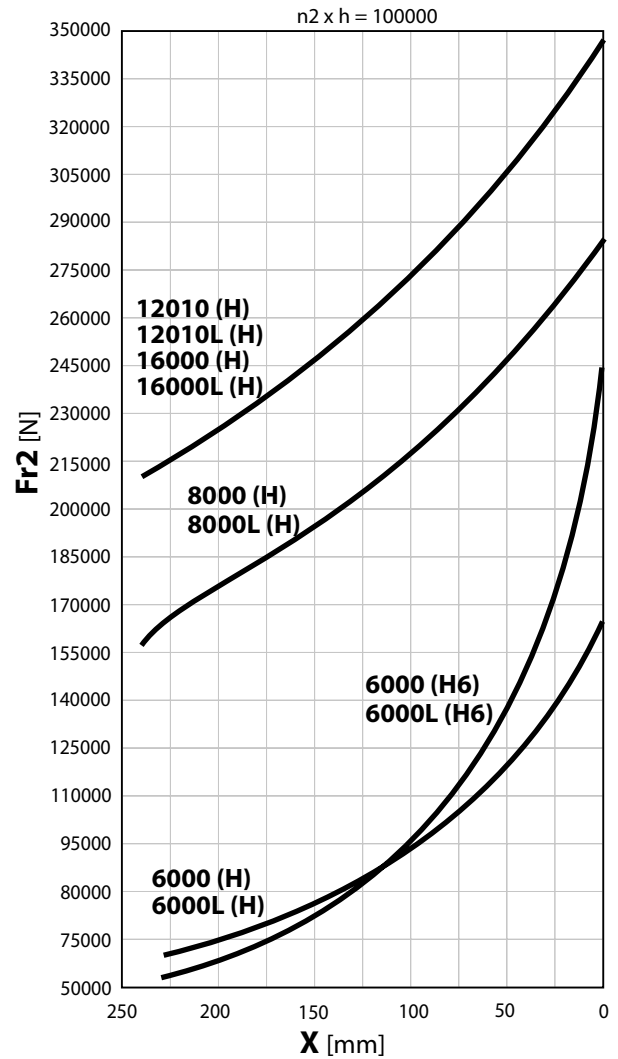
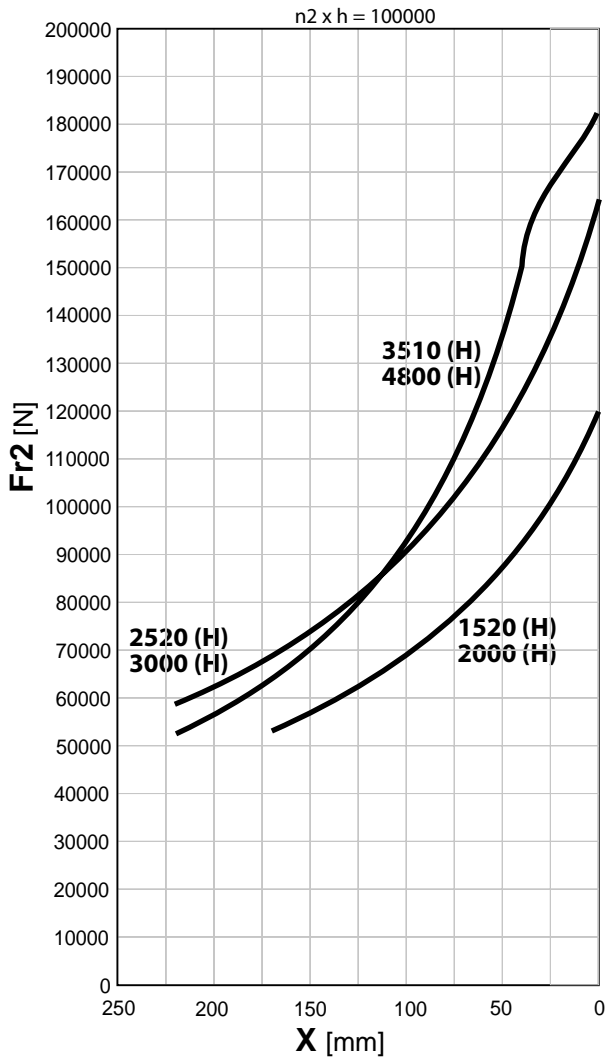
$n_2 \times h = 100000$

| RE-RA | Fa2 [N] | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | FS | | N | | P | | T | | TL | |
| | Fa2 (-) | Fa2 (+) | Fa2 (-) | Fa2 (+) | Fa2 (-) | Fa2 (+) | Fa2 (-) | Fa2 (+) | Fa2 (-) | Fa2 (+) |
| 110 | 6800 | 6800 | 19250 | 19250 | 19250 | 19250 | 22500 | 35500 | — | — |
| 210 | 6800 | 6800 | 19250 | 19250 | 19250 | 19250 | 22500 | 35500 | — | — |
| 240 | 7350 | 7350 | — | — | — | — | 25700 | 34400 | — | — |
| 310 | 10500 | 10500 | 39500 | 39500 | 58400 | 58400 | 57500 | 78500 | 48500 | 48500 |
| 510 | 10500 | 10500 | 39500 | 39500 | 58400 | 58400 | 57500 | 78500 | 48500 | 48500 |
| 610 | 10500 | 10500 | 39500 | 39500 | 58400 | 58400 | 57500 | 78500 | 48500 | 48500 |
| 810 | 21500 | 21500 | 58400 | 58400 | 58400 | 88500 | 58400 | 88500 | — | — |
| 1020 | 19000 | 19000 | — | — | 58400 | 88000 | 60500 | 104500 | — | — |
| 1520 | 27000 | 27000 | — | — | — | — | 73400 | 104500 | — | — |
| 2000 | 27000 | 27000 | — | — | — | — | 73400 | 104500 | — | — |

| K _f | $n_2 \times h$ | | | | | | |
|----------------|----------------|-------|-------|-------|--------|--------|--------|
| | 20000 | 40000 | 60000 | 80000 | 100000 | 200000 | 400000 |
| | 1.7 | 1.3 | 1.15 | 1.06 | 1 | 0.8 | 0.63 |

H (1520-2000-2520-3000-3510)

H (6000-8000-12010-16000) - H6 (6000)



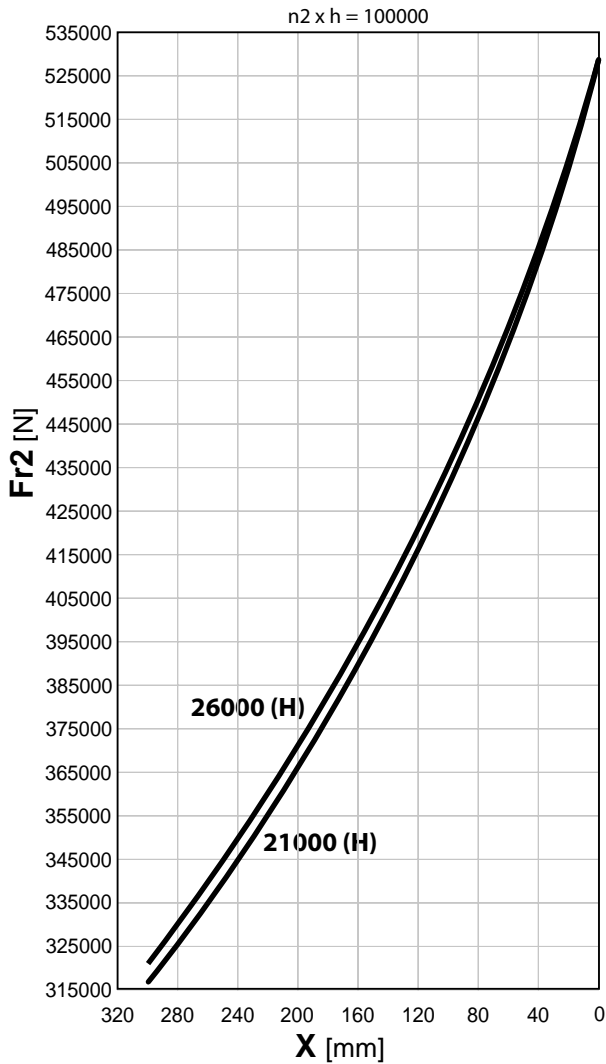
$n_2 \times h = 100000$

| RE-RA | Fa2 [N] | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| | FS | | FS1 | | H | | H6 | |
| | Fa2 (-) | Fa2 (+) | Fa2 (-) | Fa2 (+) | Fa2 (-) | Fa2 (+) | Fa2 (-) | Fa2 (+) |
| 1520 | 27000 | 27000 | — | — | 73400 | 104500 | — | — |
| 2000 | 27000 | 27000 | — | — | 73400 | 104500 | — | — |
| 2520 | 29500 | 29500 | — | — | 112600 | 149000 | — | — |
| 3000 | 29500 | 29500 | — | — | 112600 | 149000 | — | — |
| 3500 | 44000 | 44000 | — | — | 59000 | 44000 | — | — |
| 4800 | 44000 | 44000 | 65250* | 44000 | 59000 | 44000 | — | — |
| 6000 | 52000 | 42000 | — | — | 148500 | 131000 | 94000 | 42000 |
| 8000 | 67000 | 56000* | 82200* | 56000* | 94000 | 56000* | — | — |
| 12010 | 75000 | 65250* | — | — | 114000 | 65250* | — | — |
| 16000 | 75000 | 65250* | 113600* | 65250* | 114000 | 65250* | — | — |

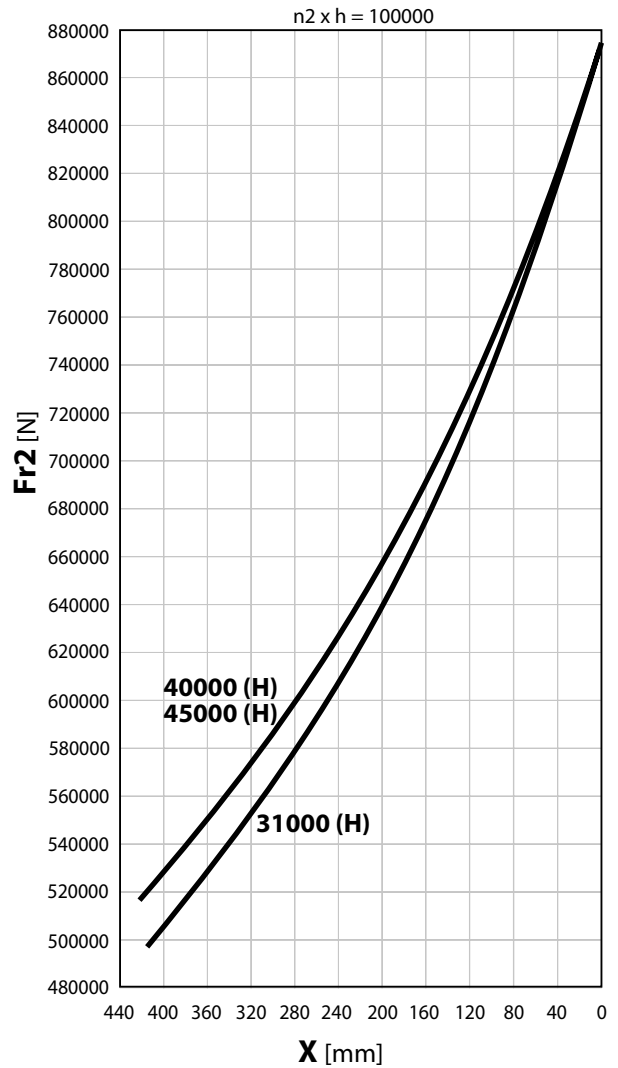
* $F_a/F_r < 0.4$

| K_f | $n_2 \times h$ | | | | | | |
|-------|----------------|-------|-------|-------|--------|--------|--------|
| | 20000 | 40000 | 60000 | 80000 | 100000 | 200000 | 400000 |
| | 1.7 | 1.3 | 1.15 | 1.06 | 1 | 0.8 | 0.63 |

H (21000-26000)



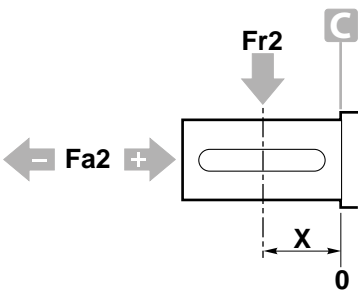
H (31000-40000-45000)



$n_2 \times h = 100000$

| GB | Fa2 [N] | | | |
|--------|---------|---------|---------|---------|
| | FS | | H | |
| | Fa2 (-) | Fa2 (+) | Fa2 (-) | Fa2 (+) |
| 21000 | 113600* | 113600* | 170000 | 113600* |
| 26000 | 160500* | 113600* | 170000 | 113600* |
| 31000 | 240000* | 160500* | 275000 | 160500* |
| 40000 | 240000* | 160500* | 275000 | 160500* |
| 45000 | 260000* | 160500* | 275000 | 160500* |
| 53000 | 185000 | 185000 | — | — |
| 61000 | 185000 | 185000 | — | — |
| 85000 | 225000 | 185000 | — | — |
| 110000 | 315000 | 230000 | — | — |
| 130000 | 315000 | 230000 | — | — |
| 150000 | 315000 | 230000 | — | — |
| 205000 | 550000 | 315000 | — | — |
| 235000 | 550000 | 315000 | — | — |

* $F_a / F_r < 0.4$



| K_f | $n_2 \times h$ | | | | | | |
|-------|----------------|-------|-------|-------|--------|--------|--------|
| | 20000 | 40000 | 60000 | 80000 | 100000 | 200000 | 400000 |
| | 1.7 | 1.3 | 1.15 | 1.06 | 1 | 0.8 | 0.63 |

I

DIMENSIONI

UK

DIMENSIONS

G



| | | | | |
|----------|----------|---------------------------------------|---|------|
| S | N | NS | 110 - 210 - 310 - 510 - 610 - 810 | G-4 |
| | P | PS | 110 - 210 - 310 - 510 - 610 - 810 - 1020 | G-6 |
| | T | TS/T1S/TLS/TRS/TR1S | 110 - 210 - 240 - 310 - 510 - 610 | G-8 |
| | | TS | 810 - 1020 - 1520 - 2000 - 2000L | G-10 |
| | H | HS | 1520 - 2000 - 2000L - 2520 - 3000 - 3510 - 4800 | G-12 |
| | | HS/H6S | 6000 - 8000 - 12010 - 16000 | G-14 |
| | | HS/H6S | 6000L - 8000L - 12010L - 16000L | G-16 |
| HS | | 21000 - 26000 - 31000 - 40000 - 45000 | G-18 | |



| | | | | |
|----------|----------|---------------------------------------|---|------|
| C | N | NC/NK/NK1 | 110 - 210 - 310 - 510 - 610 - 810 | G-20 |
| | P | PC/PK/PK1 | 110 - 210 - 310 - 510 - 610 - 810 - 1020 | G-22 |
| | T | TC/T1C/TLC/TRC/TLK/TR1C | 110 - 210 - 240 - 310 - 510 - 610 - 810 | G-24 |
| | | TC | 810 - 1020 - 1520 - 2000 - 2000L | G-26 |
| | H | HC | 1520 - 2000 - 2000L - 2520 - 3000 - 3510 - 4800 | G-28 |
| | | HC/H6C | 6000 - 8000 - 12010 - 16000 | G-30 |
| | | HC/H6C | 6000L - 8000L - 12010L - 16000L | G-32 |
| HC | | 21000 - 26000 - 31000 - 40000 - 45000 | G-34 | |



| | | | | |
|----------|----------|---------------------|-----------------------------------|------|
| E | N | NE | 110 - 210 - 310 - 510 - 610 | G-36 |
| | T | TE/T1E/TRE/TR1E/TLE | 110 - 210 - 240 - 310 - 510 - 610 | G-38 |
| | | TE | 810 - 1020 - 1520 - 2000 - 2000L | G-40 |
| | H | HE | 1520 - 2000 - 2000L - 2520 - 3000 | G-42 |



| | | | | |
|----------|----------|----|--|------|
| S | F | FS | 110 - 210 - 240 - 310 - 510 - 810 - 1020 | G-44 |
| | | | 1520 - 2000 - 2000L - 2520 - 3000 - 3510 - 4800 | G-46 |
| | | | 6000 - 8000 - 12010 - 16000 | G-48 |
| | | | 6000L - 8000L - 12010L - 16000L | G-50 |
| | | | 21000 - 26000 - 31000 - 40000 - 45000 53000 - 61000 - 85000 | G-52 |
| | | | 110000 - 130000 - 150000 205000 - 235000 | G-54 |
| F | N | NF | 310 - 510 - 610 - 810 | G-56 |



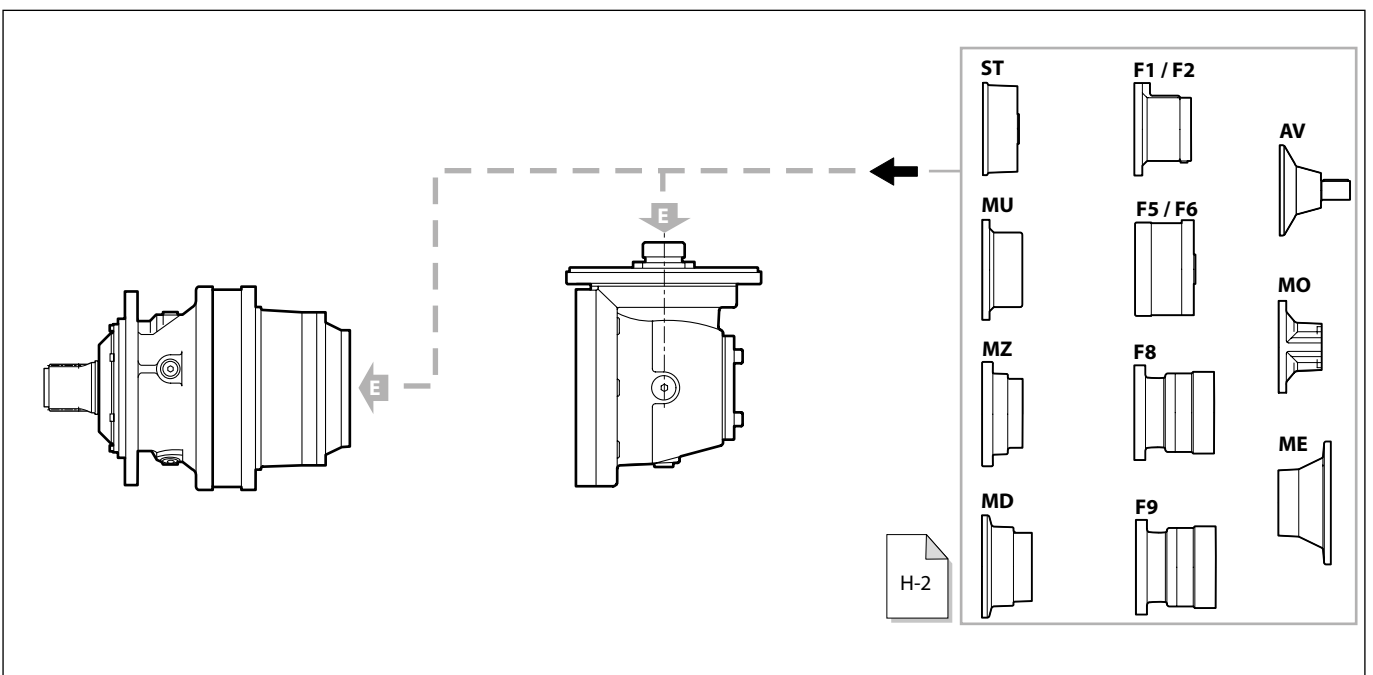
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|----------|----------|--------|--|------|
| Q | N | NQ | 110 - 210 - 310 - 510 - 610 | G-58 |
| | T | TQ/TRQ | 240 - 810 - 1020 - 1520 - 2000 - 2000L | G-60 |
| | H | HQ | 1520 - 2000 - 2000L - 2520 - 3000 - 3510 - 4800 | G-62 |
| | | HQ/H6Q | 6000 - 8000 - 12010 - 16000 | G-64 |
| | | HQ/H6Q | 6000L - 8000L - 12010L - 16000L | G-66 |
| | | HQ | 21000 - 26000 - 31000 - 40000 - 45000 53000 - 61000 - 85000 | G-68 |
| | | HQ | 110000 - 130000 - 150000 205000 - 235000 | G-70 |

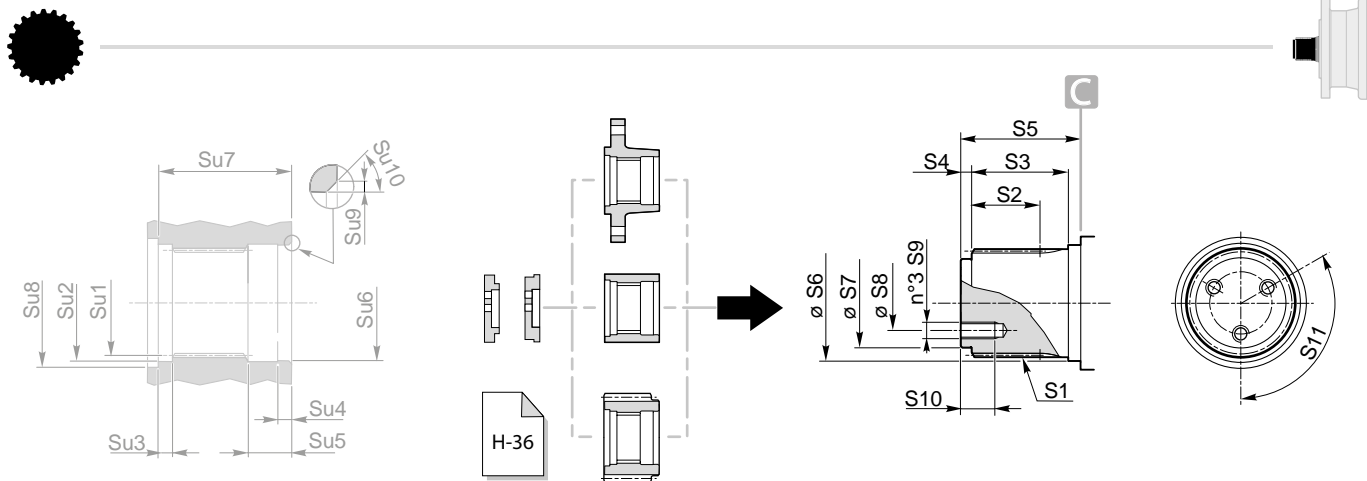


| | | | | |
|----------|--|-----------|-----------------------------|------|
| U | | TU/NU/NU2 | 110 - 210 - 310 - 510 - 610 | G-72 |
|----------|--|-----------|-----------------------------|------|



| | | | | |
|----------|--|----|-----------|------|
| C | | FC | 110 - 210 | G-74 |
|----------|--|----|-----------|------|



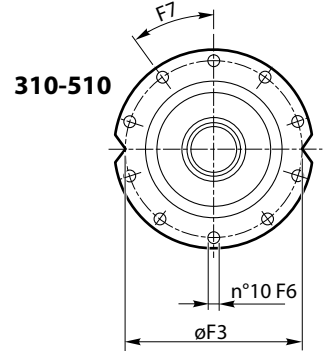
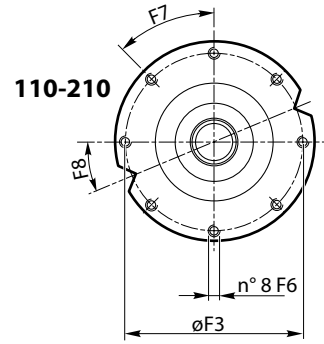
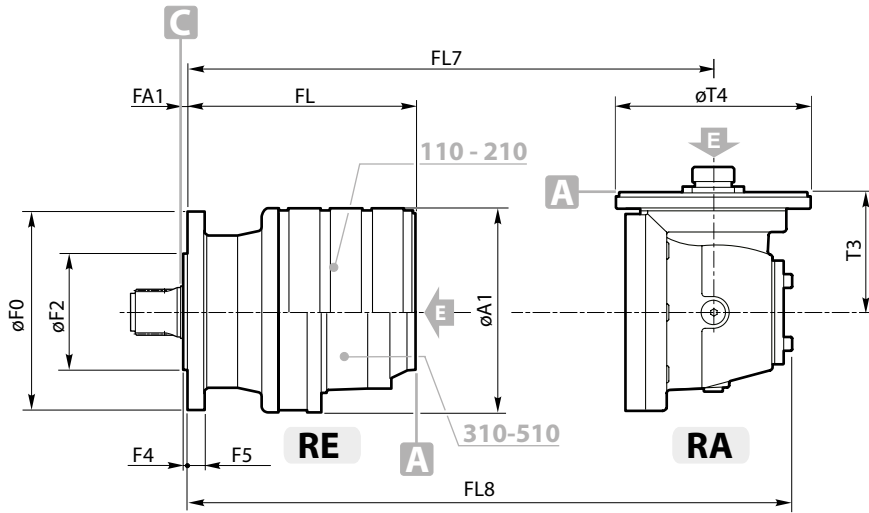


| RE - RA | | | | | | |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 110 | 210 | 310 | 510 | 610 | 810 |
| S1 | B40x36 DIN5482 | B40x36 DIN5482 | B58x53 DIN5482 | B58x53 DIN5482 | B58x53 DIN5482 | B70x64 DIN5482 |
| S2 | 30 | 30 | 37 | 37 | 37 | 51 |
| S3 | 43 | 43 | 50 | 50 | 50 | 70 |
| S4 | 5 | 5 | 8 | 8 | 8 | 10 |
| S5 | 55 | 55 | 68.5 | 68.5 | 68.5 | 90 |
| S6 | 42 f7 | 42 f7 | 60 f7 | 60 f7 | 60 f7 | 72 f7 |
| S7 | 35 f7 | 35 f7 | 50 f7 | 50 f7 | 50 f7 | 62 f7 |
| S8 | 24 | 24 | 32 | 32 | 32 | 40 |
| S9 | M6 | M6 | M10 | M10 | M10 | M10 |
| S10 | 13 | 13 | 20 | 20 | 20 | 22 |
| S11 | 120° | 120° | 120° | 120° | 120° | 120° |

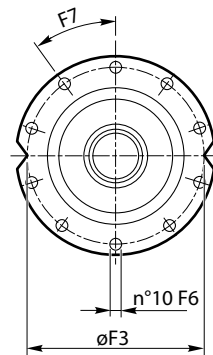
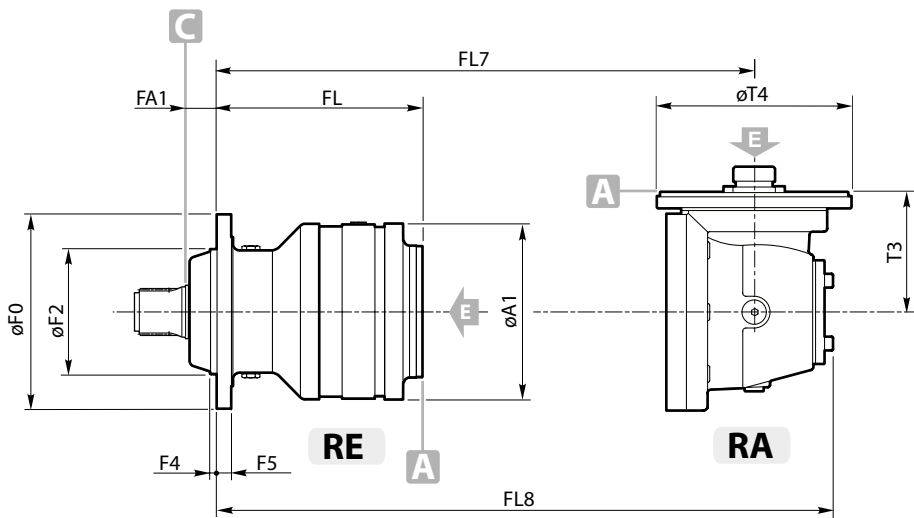
| RE - RA | | | | | | |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 110 | 210 | 310 | 510 | 610 | 810 |
| Su1 | A40x36 DIN5482 | A40x36 DIN5482 | A58x53 DIN5482 | A58x53 DIN5482 | A58x53 DIN5482 | A70x64 DIN5482 |
| Su2 | Ø42 H7 | Ø42 H7 | Ø60 H7 | Ø60 H7 | Ø60 H7 | Ø72 H7 |
| Su3 | 6 | 6 | 7 | 7 | 7 | 11 |
| Su4 | 6 | 6 | 10 | 10 | 10 | 10 |
| Su5 | 20.5 | 20.5 | 25 | 25 | 25 | 29 |
| Su6 | Ø42 H7 | Ø42 H7 | Ø60 H7 | Ø60 H7 | Ø60 H7 | Ø72 H7 |
| Su7 | 49 | 49 | 69 | 69 | 69 | 80 |
| Su8 | Ø52 | Ø52 | Ø72 | Ø72 | Ø72 | Ø80 |
| Su9 | 1 | 1 | 1 | 1 | 1 | 1 |
| Su10 | 1 | 1 | 1 | 1 | 1 | 1 |

| RE - RA | | | | | | | |
|------------|--------|-----------|--------|--------|--------|--------|--------|
| | stages | 110 | 210 | 310 | 510 | 610 | 810 |
| A1 | | 186 | 186 | 244 | 244 | 244 | 295 |
| F0 | | 185 | 185 | 222 | 222 | 222 | 280 |
| F2 | | 110 h7 | 110 h7 | 150 f7 | 150 f7 | 150 f7 | 200 f7 |
| F3 | | 165 | 165 | 195 | 195 | 195 | 250 |
| F4 | | 5 | 5 | 13.5 | 13.5 | 13.5 | 10.5 |
| F5 | | 12 | 12 | 16 | 16 | 16 | 18 |
| F6 | | Ø10.5 | Ø10.5 | Ø12.5 | Ø12.5 | Ø12.5 | Ø15 |
| | | M. - 12.9 | | | | | |
| F7 | | M10 | M10 | M12 | M12 | M12 | M14 |
| | | 45° | 45° | 36° | 36° | 36° | 30° |
| F8 | | 22.5° | 22.5° | — | — | — | — |
| FA1 | | 6.5 | 6.5 | 15 | 15 | 15 | 40 |
| FL | 1 | 95 | 107 | 133 | 151 | 151 | 162.5 |
| | 2 | 138 | 150 | 185.5 | 215.5 | 209.5 | 229.5 |
| | 3 | 181 | 193 | 228.5 | 258.5 | 262 | 282 |
| | 4 | 224 | 236 | 271.5 | 301.5 | 305 | 325 |
| FL7 | 2 | 176 | 188 | 255 | 273 | 273 | 304.5 |
| | 3 | 219 | 231 | 266.5 | 296.5 | 331.5 | 351.5 |
| | 4 | 262 | 274 | 309.5 | 339.5 | 343 | 363 |
| FL8 | 2 | 250.5 | 262.5 | 346 | 364 | 364 | 412.5 |
| | 3 | 293.5 | 305.5 | 341 | 371 | 422.5 | 442.5 |
| | 4 | 336.5 | 348.5 | 384 | 414 | 417.5 | 437.5 |
| T3 | 2 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 | 277 |
| | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | 184 | 184 | 183 | 183 | 183 | 242 |
| | 3 | 184 | 184 | 184 | 184 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 | 184 |

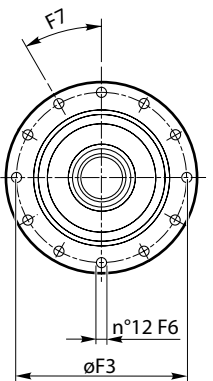
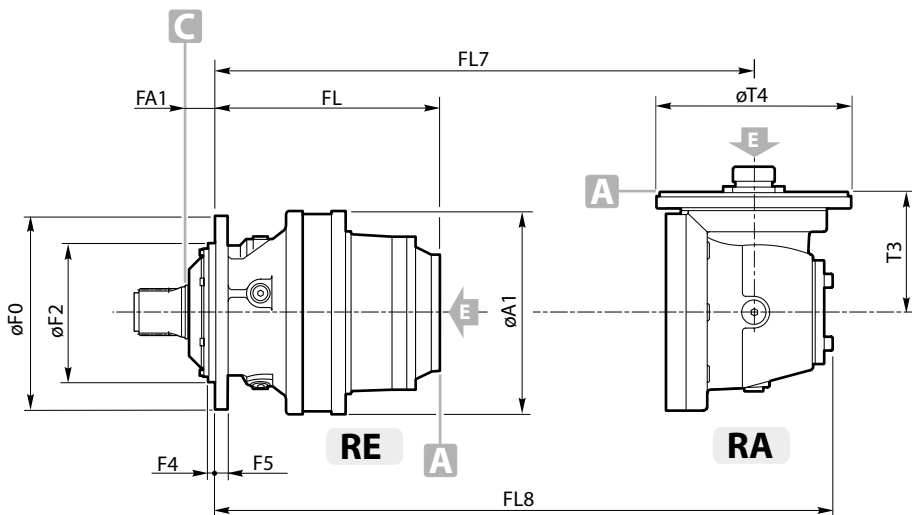
**110 - 210
310 - 510**

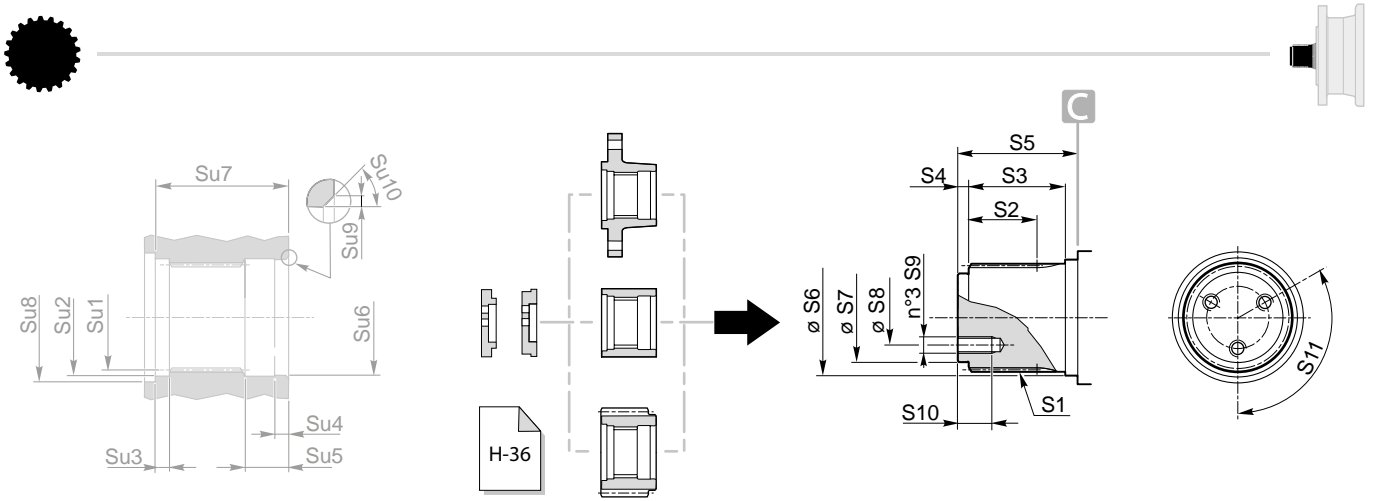


610



810

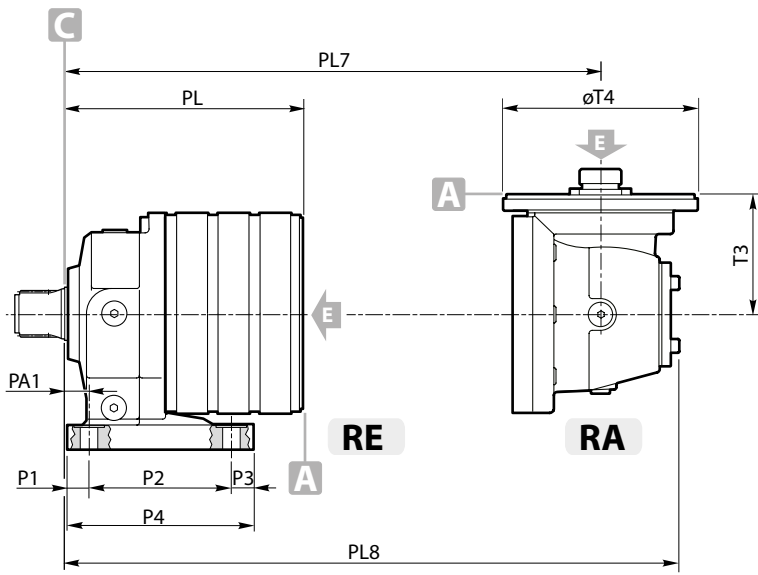




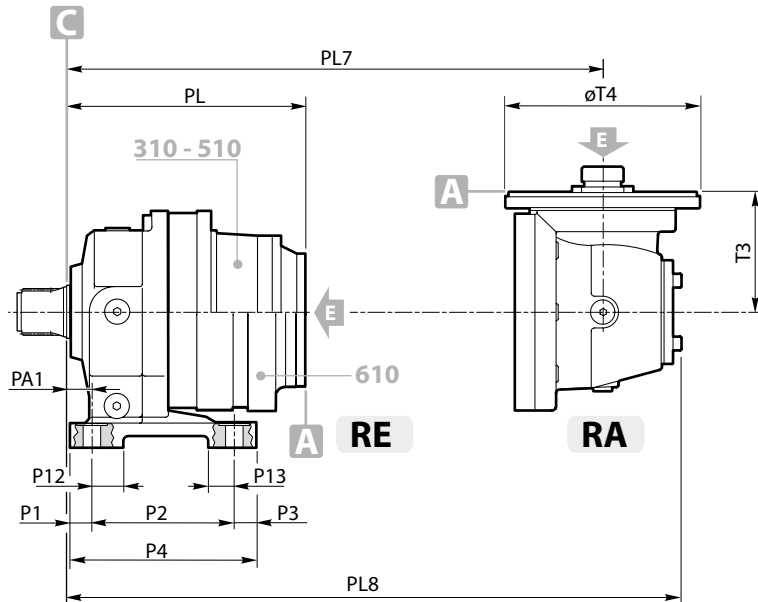
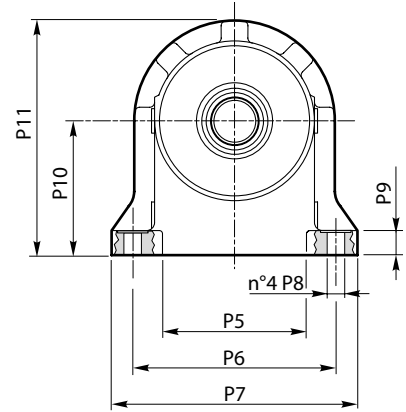
| RE - RA | | | | | | | |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 110 | 210 | 310 | 510 | 610 | 810 | 1020 |
| S1 | B40x36 DIN5482 | B40x36 DIN5482 | B58x53 DIN5482 | B58x53 DIN5482 | B58x53 DIN5482 | B70x64 DIN5482 | B70x64 DIN5482 |
| S2 | 30 | 30 | 37 | 37 | 37 | 51 | 51 |
| S3 | 43 | 43 | 50 | 50 | 50 | 70 | 70 |
| S4 | 5 | 5 | 8 | 8 | 8 | 10 | 10 |
| S5 | 55 | 55 | 68.5 | 68.5 | 68.5 | 90 | 90 |
| S6 | 42 f7 | 42 f7 | 60 f7 | 60 f7 | 60 f7 | 72 f7 | 72 f7 |
| S7 | 35 f7 | 35 f7 | 50 f7 | 50 f7 | 50 f7 | 62 f7 | 62 f7 |
| S8 | 24 | 24 | 32 | 32 | 32 | 40 | 40 |
| S9 | M6 | M6 | M10 | M10 | M10 | M10 | M10 |
| S10 | 13 | 13 | 20 | 20 | 20 | 22 | 22 |
| S11 | 120° | 120° | 120° | 120° | 120° | 120° | 120° |

| RE - RA | | | | | | | | |
|------------|--------|-------------|-------|-------|-------|-------|-------|-------|
| | stages | 110 | 210 | 310 | 510 | 610 | 810 | 1020 |
| P1 | | 20 | 20 | 28 | 28 | 28 | 35 | 35 |
| P2 | | 132 | 132 | 180 | 180 | 180 | 225 | 225 |
| P3 | | 20 | 20 | 28 | 28 | 28 | 35 | 35 |
| P4 | | 172 | 172 | 236 | 236 | 236 | 295 | 295 |
| P5 | | 134 | 134 | 180 | 180 | 180 | 206 | 206 |
| P6 | | 190 | 190 | 250 | 250 | 250 | 300 | 300 |
| P7 | | 230 | 230 | 310 | 310 | 310 | 370 | 370 |
| P8 | | Ø14 | Ø14 | Ø22 | Ø22 | Ø22 | Ø26 | Ø26 |
| | | M... - 12.9 | | | | | | |
| | | M12 | M12 | M20 | M20 | M20 | M24 | M24 |
| P9 | | 23 | 23 | 26.5 | 26.5 | 26.5 | 36 | 36 |
| P10 | | 125 | 125 | 160 | 160 | 160 | 200 | 200 |
| P11 | | 218 | 218 | 282 | 282 | 282 | 347.5 | 347.5 |
| P12 | | — | — | 21 | 21 | 21 | 45 | 45 |
| P13 | | — | — | 21 | 21 | 21 | 45 | 45 |
| PA1 | | 20 | 20 | 29 | 29 | 29 | 35 | 35 |
| PL | 1 | 101.5 | 113.5 | 148 | 166 | 166 | 225 | 242 |
| | 2 | 144.5 | 156.5 | 200.5 | 230.5 | 224.5 | 292 | 327 |
| | 3 | 187.5 | 199.5 | 243.5 | 273.5 | 277 | 344.5 | 391.5 |
| | 4 | 230.5 | 242.5 | 286.5 | 316.5 | 320 | 387.5 | 434.5 |
| PL7 | 2 | 182.5 | 194.5 | 297 | 315 | 288 | 367 | 384 |
| | 3 | 225.5 | 237.5 | 281.5 | 311.5 | 346.5 | 414 | 449 |
| PL8 | 2 | 257 | 269 | 361 | 379 | 379 | 475 | 492 |
| | 3 | 300 | 312 | 356 | 386 | 437.5 | 505 | 540 |
| T3 | 2 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 | 277 | 277 |
| | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| | 2 | 184 | 184 | 183 | 183 | 183 | 242 | 242 |
| T4 | 3 | 184 | 184 | 184 | 184 | 183 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |

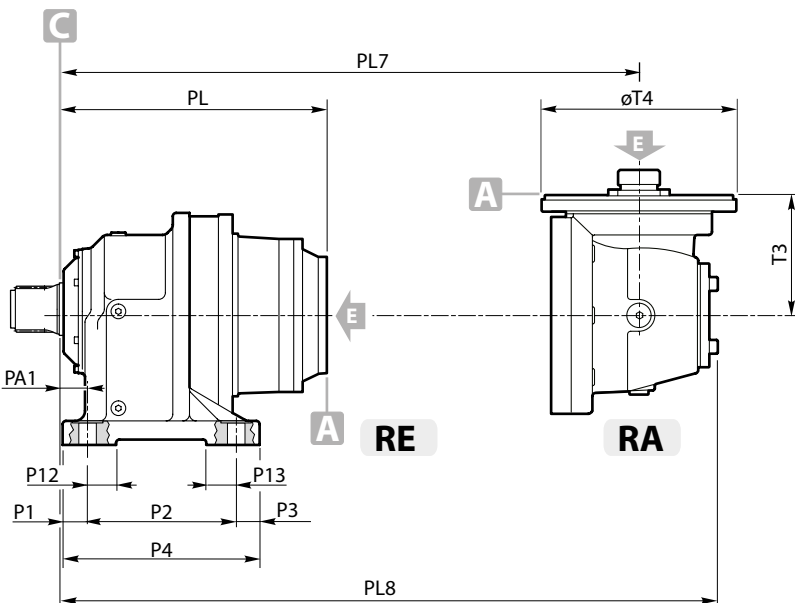
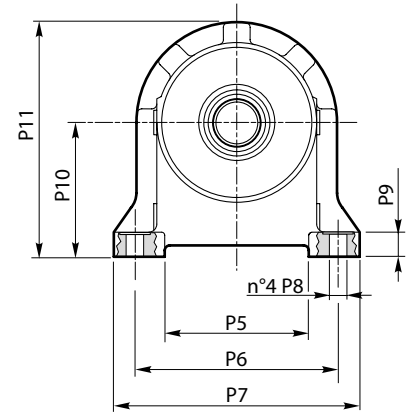
| RE - RA | | | | | | | |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 110 | 210 | 310 | 510 | 610 | 810 | 1020 |
| Su1 | A40x36 DIN5482 | A40x36 DIN5482 | A58x53 DIN5482 | A58x53 DIN5482 | A58x53 DIN5482 | A70x64 DIN5482 | A70x64 DIN5482 |
| Su2 | Ø42 H7 | Ø42 H7 | Ø60 H7 | Ø60 H7 | Ø60 H7 | Ø72 H7 | Ø72 H7 |
| Su3 | 6 | 6 | 7 | 7 | 7 | 11 | 11 |
| Su4 | 6 | 6 | 10 | 10 | 10 | 10 | 10 |
| Su5 | 20.5 | 20.5 | 25 | 25 | 25 | 29 | 29 |
| Su6 | Ø42 H7 | Ø42 H7 | Ø60 H7 | Ø60 H7 | Ø60 H7 | Ø72 H7 | Ø72 H7 |
| Su7 | 49 | 49 | 69 | 69 | 69 | 80 | 80 |
| Su8 | Ø52 | Ø52 | Ø72 | Ø72 | Ø72 | Ø80 | Ø80 |
| Su9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Su10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |



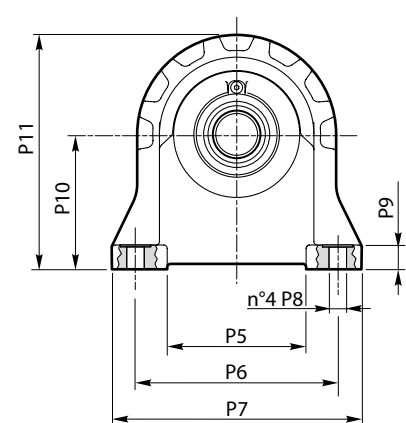
110 - 210

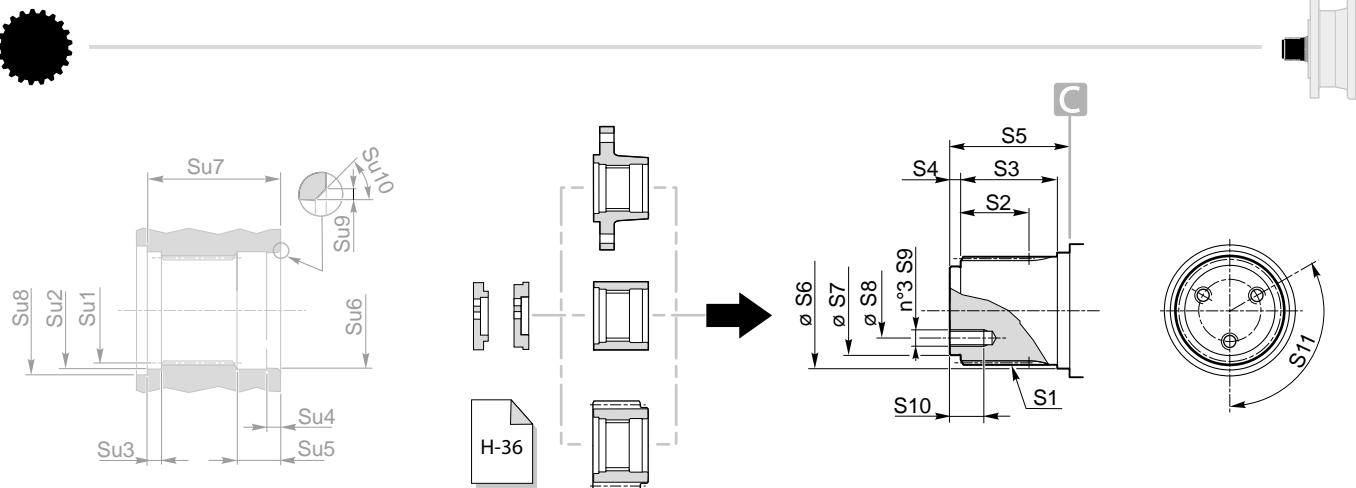


**310 - 510
610**



810 - 1020

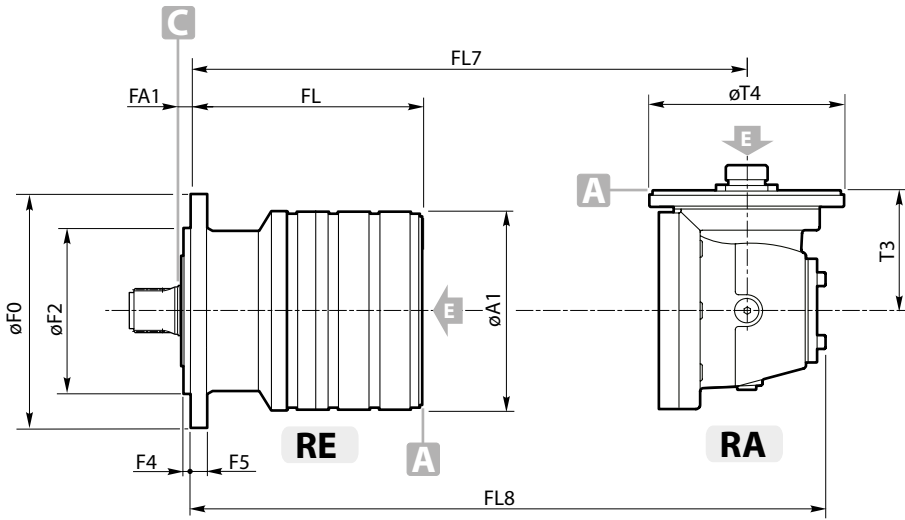




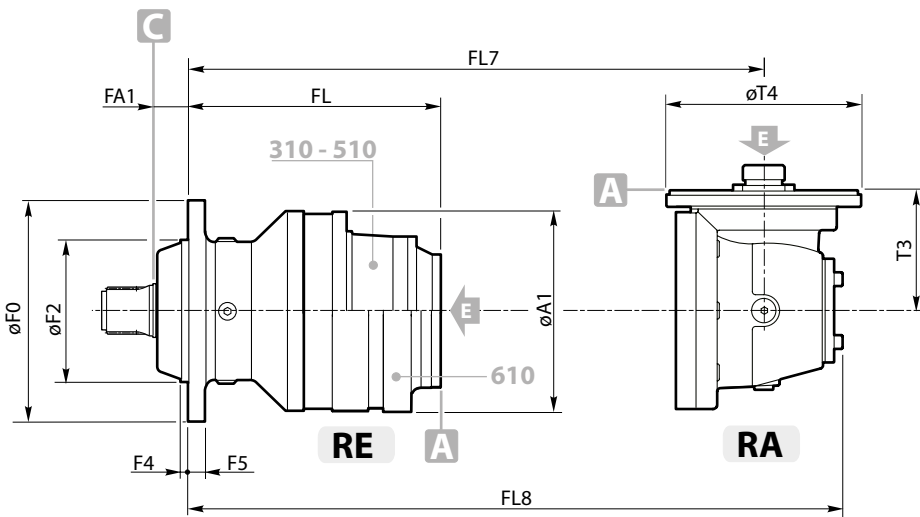
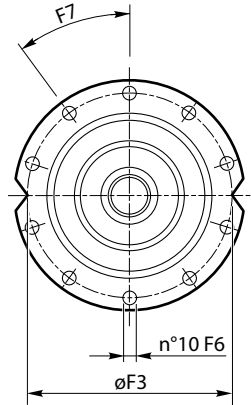
| RE - RA | | | | | | |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 110 | 210 | 240 | 310 | 510 | 610 |
| Su1 | A40x36 DIN5482 | A40x36 DIN5482 | A58x53 DIN5482 | A58x53 DIN5482 | A58x53 DIN5482 | A58x53 DIN5482 |
| Su2 | 42 H7 | 42 H7 | 60 H7 | 60 H7 | 60 H7 | 60 H7 |
| Su3 | 7 | 7 | 7 | 7 | 7 | 7 |
| Su4 | 6 | 6 | 10 | 10 | 10 | 10 |
| Su5 | 20.5 | 20.5 | 25 | 25 | 25 | 25 |
| Su6 | 42 H7 | 42 H7 | 60 H7 | 60 H7 | 60 H7 | 60 H7 |
| Su7 | 62.5 | 62.5 | 69 | 69 | 69 | 69 |
| Su8 | 51 | 51 | 72 | 72 | 72 | 72 |
| Su9 | 1 | 1 | 1 | 1 | 1 | 1 |
| Su10 | 1 | 1 | 1 | 1 | 1 | 1 |

| RE - RA | | | | | | |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 110 | 210 | 240 | 310 | 510 | 610 |
| S1 | B40x36 DIN5482 | B40x36 DIN5482 | B58x53 DIN5482 | B58x53 DIN5482 | B58x53 DIN5482 | B58x53 DIN5482 |
| S2 | 35 | 35 | 37 | 46 | 46 | 46 |
| S3 | 50 | 50 | 50 | 60 | 60 | 60 |
| S4 | 7 | 7 | 8 | 8 | 8 | 8 |
| S5 | 62 | 62 | 68.5 | 78 | 78 | 78 |
| S6 | 42 f7 | 42 f7 | 60 f7 | 60 f7 | 60 f7 | 60 f7 |
| S7 | 35 f7 | 35 f7 | 50 f7 | 50 f7 | 50 f7 | 50 f7 |
| S8 | 24 | 24 | 32 | 32 | 32 | 32 |
| S9 | M6 | M6 | M10 | M10 | M10 | M10 |
| S10 | 13 | 13 | 20 | 20 | 20 | 20 |
| S11 | 120° | 120° | 120° | 120° | 120° | 120° |

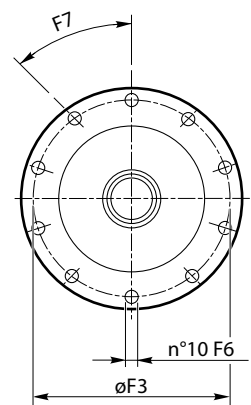
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|------------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | stages | 110 | | | | 210 | | | | 240 | | 310 | | 510 | | 610 | |
| | | TS | T1S | TRS | TR1S | TS | T1S | TRS | TR1S | TS | TRS | TS | TLS | TS | TLS | TS | TLS |
| A1 | | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 244 | 244 | 244 | 244 | 244 | 244 |
| F0 | | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 272 | 272 | 272 | 272 | 272 | 272 |
| F2 | | 155 h7 | 150 f7 | 155 h7 | 150 f7 | 155 h7 | 150 f7 | 155 h7 | 150 f7 | 150 f7 | 155 f7 | 175 h8 | 175 h8 | 175 h8 | 175 h8 | 175 h8 | 175 h8 |
| F3 | | 194 | 195 | 194 | 195 | 194 | 195 | 194 | 195 | 195 | 194 | 245 | 245 | 245 | 245 | 245 | 245 |
| F4 | | 7 | 7 | 10 | 10 | 7 | 7 | 10 | 10 | 7 | 10 | 12 | 9 | 12 | 9 | 12 | 9 |
| F5 | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 | 20 |
| F6 | | Ø11 | Ø13 | Ø11 | Ø13 | Ø11 | Ø13 | Ø11 | Ø13 | Ø12.5 | Ø11 | Ø12.5 | Ø12.5 | Ø12.5 | Ø12.5 | Ø12.5 | Ø12.5 |
| | | M. - 12.9 | | | | | | | | | | | | | | | |
| | | M10 | M12 | M10 | M12 | M10 | M12 | M10 | M12 | M12 | M10 | M12 | M12 | M12 | M12 | M12 | M12 |
| F7 | | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° |
| FA1 | | 13 | 13 | 30 | 30 | 13 | 13 | 30 | 30 | 13 | 30 | 39 | 39 | 39 | 39 | 39 | 39 |
| FL | 1 | 102 | 102 | 85 | 85 | 114 | 114 | 97 | 97 | 114 | 97 | 157 | 157 | 175 | 175 | 175 | 175 |
| | 2 | 145 | 145 | 128 | 128 | 157 | 157 | 140 | 140 | 157 | 140 | 209.5 | 209.5 | 239.5 | 239.5 | 233.5 | 233.5 |
| | 3 | 188 | 188 | 171 | 171 | 200 | 200 | 183 | 183 | 200 | 183 | 252.5 | 252.5 | 282.5 | 282.5 | 286 | 286 |
| | 4 | 231 | 231 | 214 | 214 | 243 | 243 | 226 | 226 | 243 | 226 | 295.5 | 295.5 | 325.5 | 325.5 | 329 | 329 |
| FL7 | 2 | 183 | 183 | 166 | 166 | 195 | 195 | 178 | 178 | 195 | 178 | 279 | 279 | 297 | 297 | 297 | 297 |
| | 3 | 226 | 226 | 209 | 209 | 238 | 238 | 221 | 221 | 238 | 221 | 290.5 | 290.5 | 320.5 | 320.5 | 355.5 | 355.5 |
| | 4 | 269 | 269 | 252 | 252 | 281 | 281 | 264 | 264 | 281 | 264 | 333.5 | 333.5 | 363.5 | 363.5 | 367 | 367 |
| FL8 | 2 | 257.5 | 257.5 | 240.5 | 240.5 | 269.5 | 269.5 | 252.5 | 252.5 | 269.5 | 252.5 | 370 | 370 | 388 | 388 | 388 | 388 |
| | 3 | 300.5 | 300.5 | 283.5 | 283.5 | 312.5 | 312.5 | 295.5 | 295.5 | 312.5 | 295.5 | 365 | 365 | 395 | 395 | 446.5 | 446.5 |
| | 4 | 343.5 | 343.5 | 326.5 | 326.5 | 355.5 | 355.5 | 338.5 | 338.5 | 355.5 | 338.5 | 408 | 408 | 438 | 438 | 441.5 | 441.5 |
| T3 | 2 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 |
| | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 183 | 183 | 183 | 183 | 183 | 183 |
| | 3 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |

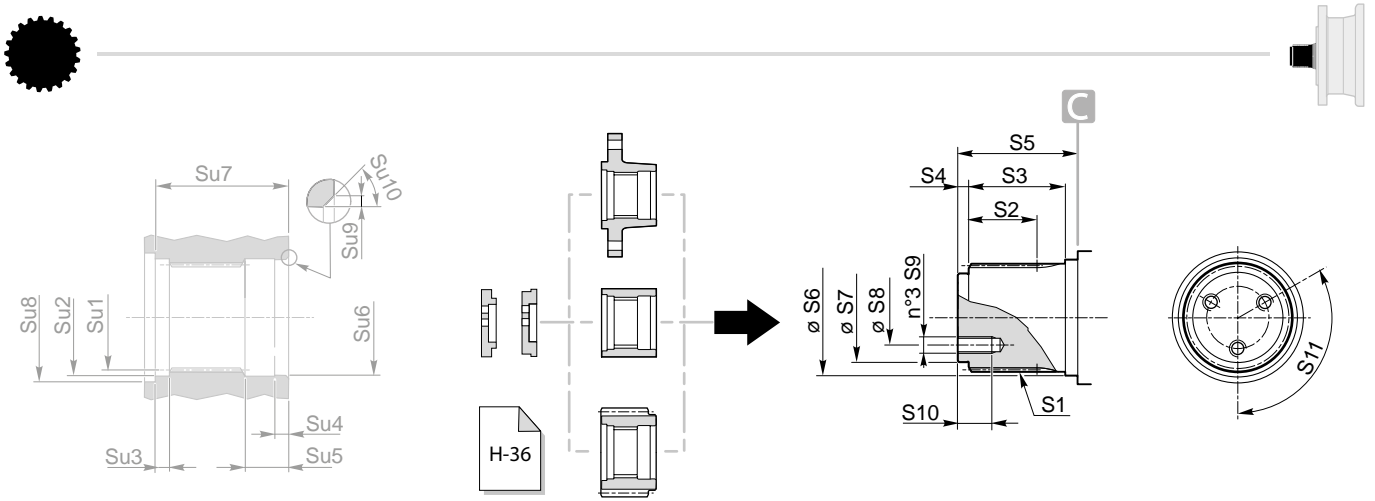


110 ÷ 240



**310 - 510
610**





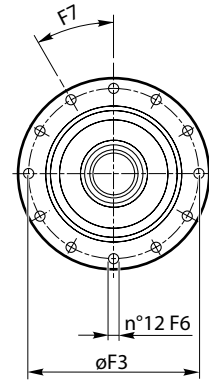
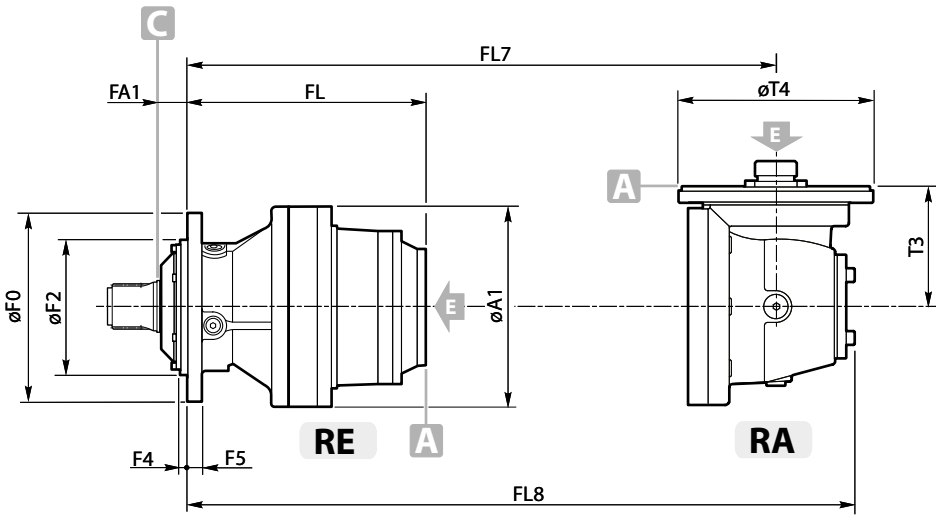
| RE - RA | | | | |
|------------|----------------|----------------|----------------|----------------|
| | 810 | 1020 | 1520 | 2000 2000L |
| S1 | B70x64 DIN5482 | B80x74 DIN5482 | B80x74 DIN5482 | B80x74 DIN5482 |
| S2 | 51 | 50 | 50 | 50 |
| S3 | 70 | 70 | 70 | 70 |
| S4 | 10 | 10 | 10 | 10 |
| S5 | 90 | 90 | 90 | 90 |
| S6 | 72 f7 | 85 f7 | 85 f7 | 85 f7 |
| S7 | 62 f7 | 70 f7 | 70 f7 | 70 f7 |
| S8 | 40 | 45 | 45 | 45 |
| S9 | M10 | M10 | M10 | M10 |
| S10 | 22 | 25 | 25 | 25 |
| S11 | 120° | 120° | 120° | 120° |

| RE - RA | | | | | | |
|------------|--------|-------------|--------|--------|--------|--------|
| | stages | 810 | 1020 | 1520 | 2000 | 2000L |
| A1 | | 295 | 295 | 350 | 350 | 350 |
| F0 | | 280 | 325 | 325 | 325 | 325 |
| F2 | | 200 f7 | 230 f7 | 230 f7 | 230 f7 | 230 f7 |
| F3 | | 250 | 295 | 295 | 295 | 295 |
| F4 | | 10.5 | 15 | 15 | 15 | 15 |
| F5 | | 22 | 25 | 28 | 28 | 28 |
| F6 | | Ø15 | Ø17 | Ø17 | Ø17 | Ø17 |
| | | M... - 12.9 | | | | |
| | | M14 | M16 | M16 | M16 | M16 |
| F7 | | 30° | 36° | 36° | 36° | 36° |
| FA1 | | 40 | 36 | 36 | 36 | 36 |
| FL | 1 | 185 | 237 | 240 | 240 | 240 |
| | 2 | 252 | 322 | 333 | 333 | 333 |
| | 3 | 304.5 | 386.5 | 397.5 | 391.5 | 397.5 |
| | 4 | 347.5 | 429.5 | 440 | 444 | 440 |
| FL7 | 2 | 326.5 | 379 | 446 | 446 | 446 |
| | 3 | 374 | 444 | 455 | 455 | 455 |
| FL8 | 4 | 385.5 | 467.5 | 478.5 | 513.5 | 478.5 |
| | 2 | 435 | 487 | 574 | 574 | 574 |
| T3 | 3 | 465 | 535 | 546 | 546 | 546 |
| | 4 | 460 | 542 | 553 | 604.5 | 553 |
| T4 | 2 | 277 | 277 | 310 | 310 | 310 |
| | 3 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 |
| T4 | 4 | 113.8 | 113.8 | 113.8 | 171.5 | 113.8 |
| | 2 | 242 | 242 | 293 | 293 | 293 |
| T4 | 3 | 183 | 183 | 183 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 183 | 184 |

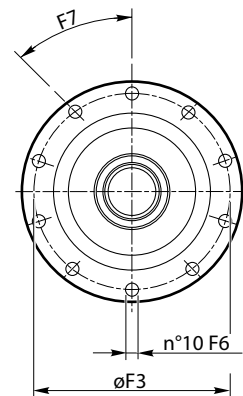
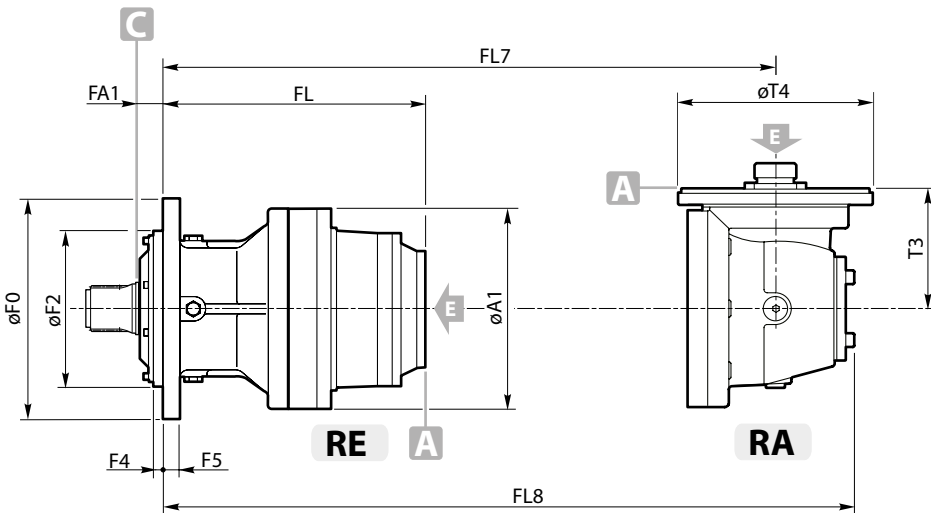
| RE - RA | | | | |
|-------------|----------------|----------------|----------------|----------------|
| | 810 | 1020 | 1520 | 2000 2000L |
| Su1 | A70x64 DIN5482 | A80x74 DIN5482 | A80x74 DIN5482 | A80x74 DIN5482 |
| Su2 | 72 H7 | 85 H7 | 85 H7 | 85 H7 |
| Su3 | 10 | 10.5 | 10.5 | 10.5 |
| Su4 | 11 | 10.5 | 10.5 | 10.5 |
| Su5 | 29 | 30.5 | 30.5 | 30.5 |
| Su6 | 72 H7 | 85 H7 | 85 H7 | 85 H7 |
| Su7 | 90 | 90.5 | 90.5 | 90.5 |
| Su8 | 82 | 100 | 100 | 100 |
| Su9 | 1 | 1 | 1 | 1 |
| Su10 | 1 | 1 | 1 | 1 |

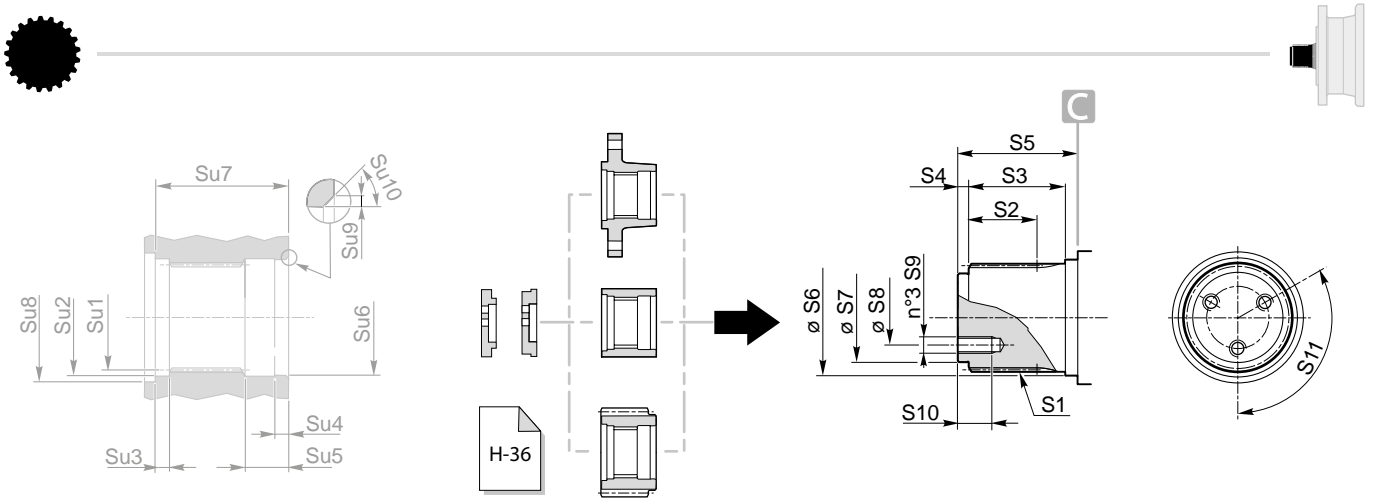


810



**1020 - 1520
2000 - 2000L**

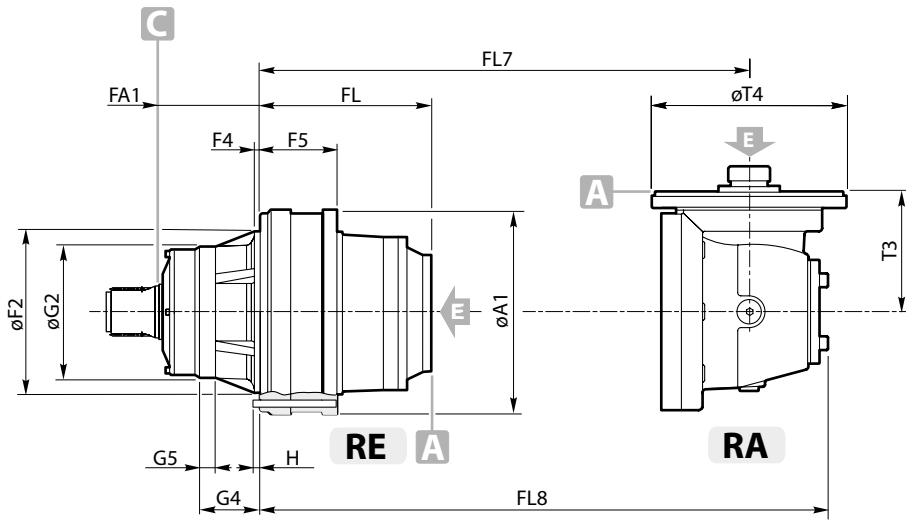




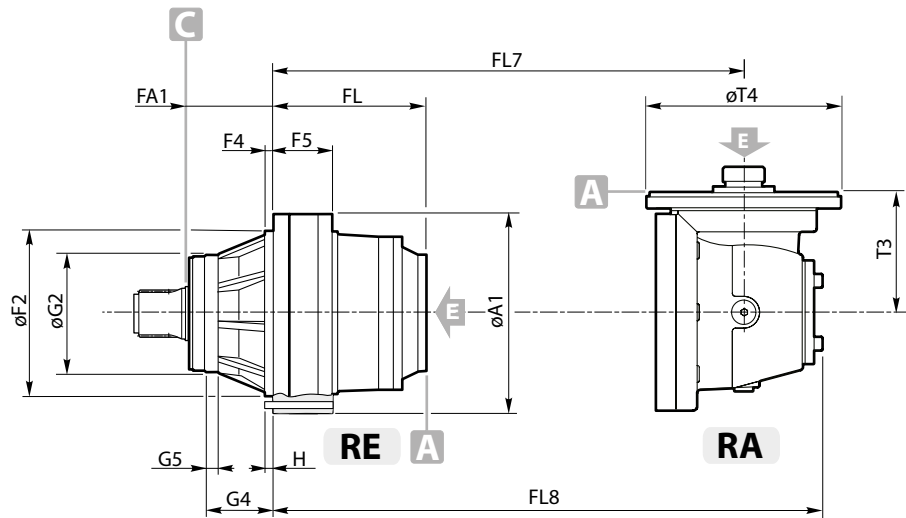
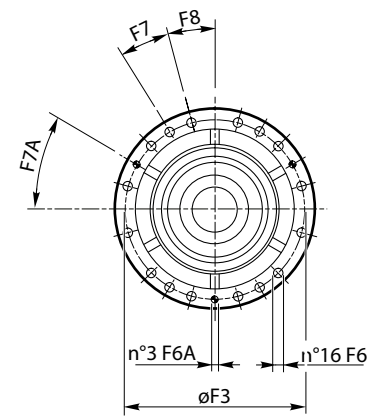
| RE - RA | | | | | | |
|------------|--------------------|--------------------|---------------------|---------------------|-----------------------|-----------------------|
| | 1520 | 2000 2000L | 2520 | 3000 | 3510 | 4800 |
| S1 | B80x74 DIN 5482 | B80x74 DIN 5482 | B100x94 DIN 5482 | B100x94 DIN 5482 | W120x3x8f DIN 5480 | W120x3x8f DIN 5480 |
| S2 | 50 | 50 | 65 | 65 | 95 | 95 |
| S3 | 70 | 70 | 85 | 85 | 111 | 111 |
| S4 | 10 | 10 | 12 | 12 | 15 | 15 |
| S5 | 90 | 90 | 110 | 110 | 136 | 136 |
| S6 | 85 f7 | 85 f7 | 105 h7 | 105 h7 | 124 f7 | 124 f7 |
| S7 | 70 f7 | 70 f7 | 85 h7 | 85 h7 | 90 f7 | 90 f7 |
| S8 | 45 | 45 | 52 | 52 | 50 | 50 |
| S9 | M10 | M10 | M14 | M14 | M16 | M16 |
| S10 | 25 | 25 | 30 | 30 | 30 | 30 |
| S11 | 120° | 120° | 120° | 120° | 120° | 120° |

| RE - RA | | | | | | |
|-------------|--------------------|--------------------|---------------------|---------------------|-----------------------|-----------------------|
| | 1520 | 2000 2000L | 2520 | 3000 | 3510 | 4800 |
| Su1 | A80x74 DIN 5482 | A80x74 DIN 5482 | A100x94 DIN 5482 | A100x94 DIN 5482 | N120x3x9H DIN 5480 | N120x3x9H DIN 5480 |
| Su2 | 85 H7 | 85 H7 | 105 H7 | 105 H7 | 130 H7 | 130 H7 |
| Su3 | 10.5 | 10.5 | 12 | 12 | 28 | 28 |
| Su4 | 10.5 | 10.5 | 13 | 13 | 12 | 12 |
| Su5 | 30.5 | 30.5 | 33 | 33 | 29 | 29 |
| Su6 | 85 H7 | 85 H7 | 105 H7 | 105 H7 | 124 H7 | 124 H7 |
| Su7 | 90.5 | 90.5 | 110 | 110 | 150 | 150 |
| Su8 | 100 | 100 | 116 | 116 | 132 | 132 |
| Su9 | 1 | 1 | 1.5 | 1.5 | 3 | 3 |
| Su10 | 1 | 1 | 1.5 | 1.5 | 3 | 3 |

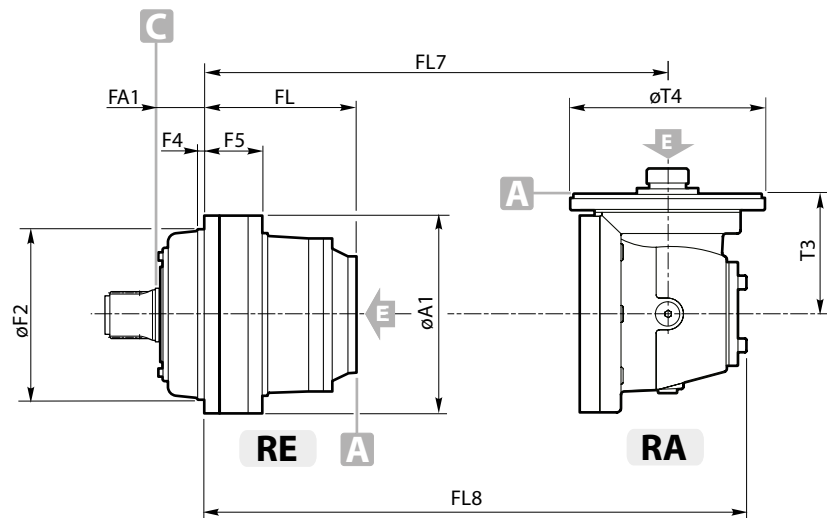
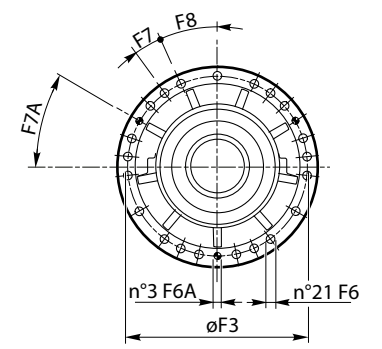
| RE - RA | | | | | | | | |
|------------|--------|-------------|--------|--------|--------|--------|--------|--------|
| | stages | 1520 | 2000 | 2000L | 2520 | 3000 | 3510 | 4800 |
| A1 | | 350 | 350 | 350 | 409 | 409 | 452 | 452 |
| FA1 | | 169 | 169 | 169 | 180 | 180 | 109 | 109 |
| F2 | | 278 f7 | 278 f7 | 278 f7 | 340 f7 | 340 f7 | 390 f8 | 390 f8 |
| F3 | | 314 | 314 | 314 | 370 | 370 | 424 | 424 |
| F4 | | 10 | 10 | 10 | 17 | 17 | 15 | 15 |
| F5 | | 133 | 133 | 133 | 131 | 131 | 120 | 120 |
| F6 | | Ø16.5 | Ø16.5 | Ø16.5 | Ø17 | Ø17 | Ø17 | Ø17 |
| | | M... - 12.9 | | | | | | |
| | | M16 | M16 | M16 | M16 | M16 | M16 | M16 |
| F6A | | Ø12 | Ø12 | Ø12 | Ø16 | Ø16 | — | — |
| F7 | | 15° | 15° | 15° | 12° | 12° | 20° | 20° |
| F7A | | 30° | 30° | 30° | 30° | 30° | — | — |
| F8 | | 15° | 15° | 15° | 24° | 24° | 10° | 10° |
| FL | 1 | 107 | 107 | 107 | 98 | 98 | 85 | 85 |
| | 2 | 200 | 200 | 200 | 209 | 226 | 277 | 326 |
| | 3 | 264.5 | 258.5 | 264.5 | 276 | 311 | 362 | 419 |
| | 4 | 307.5 | 311 | 307.5 | 328.5 | 375.5 | 426.5 | 483.5 |
| FL7 | 2 | 313 | 313 | 313 | 292 | 292 | 339 | 339 |
| | 3 | 322 | 322 | 322 | 351 | 368 | 419 | 532 |
| | 4 | 345.5 | 380.5 | 345.5 | 398 | 433 | 484 | 541 |
| FL8 | 2 | 441 | 441 | 441 | 420 | 420 | 529 | 529 |
| | 3 | 413 | 413 | 413 | 459 | 476 | 527 | 660 |
| | 4 | 420 | 472 | 420 | 489 | 524 | 575 | 632 |
| G2 | | 225 f7 | 225 f7 | 225 f7 | 245 f7 | 245 f7 | — | — |
| G4 | | 104.5 | 104.5 | 104.5 | 142 | 142 | — | — |
| G5 | | 27.5 | 27.5 | 27.5 | 29 | 29 | — | — |
| H | | 15 | 15 | 15 | 29 | 29 | — | — |
| T3 | 2 | 310 | 310 | 310 | 310 | 310 | 432 | 432 |
| | 3 | 171 | 171 | 171 | 227 | 227 | 227 | 310 |
| | 4 | 113.8 | 171 | 113.8 | 171 | 171 | 171 | 171 |
| T4 | 2 | 293 | 293 | 293 | 293 | 293 | 295 | 295 |
| | 3 | 183 | 183 | 183 | 242 | 242 | 242 | 293 |
| | 4 | 184 | 183 | 184 | 183 | 183 | 183 | 183 |



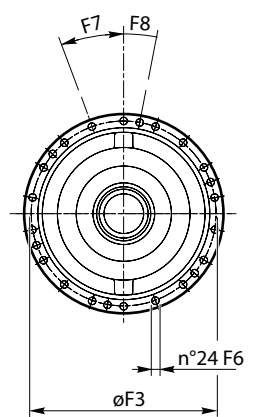
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2000L**

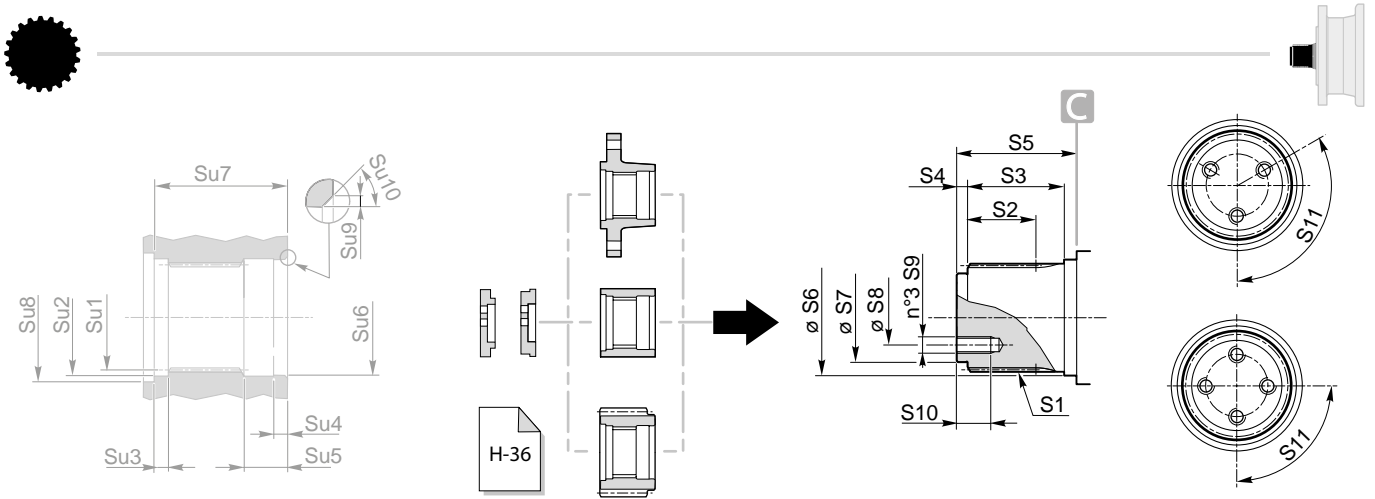


2520 - 3000



3510 - 4800

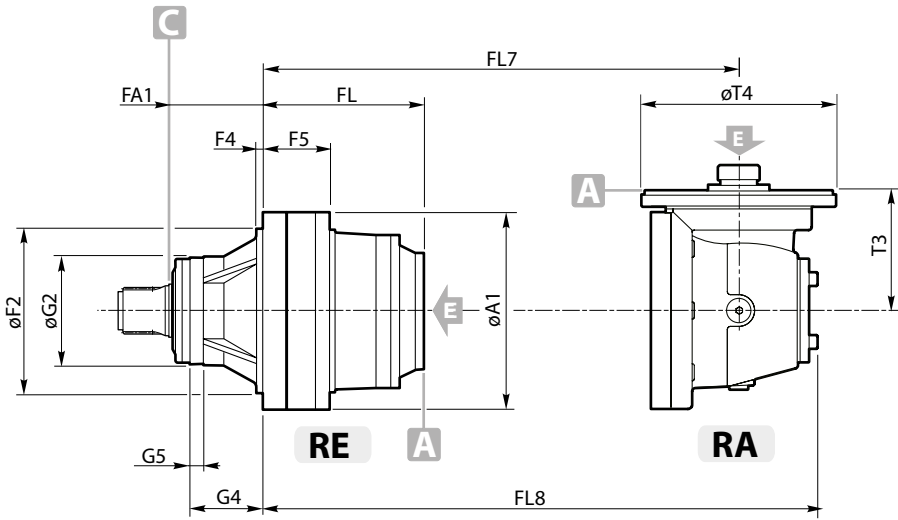




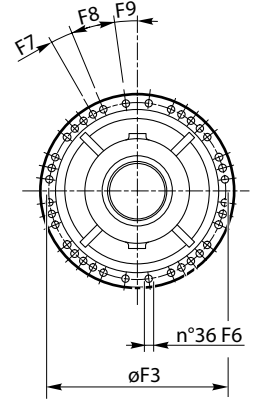
| | RE - RA | | | GB - GBA | |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 6000 | | 8000 | 12010 | 16000 |
| | HS | H6S | HS | HS | HS |
| S1 | W120x3x8f DIN 5480 | W150x5x8f DIN 5480 | W150x5x8f DIN 5480 | W170x5x8f DIN 5480 | W170x5x8f DIN 5480 |
| S2 | 85 | 107 | 107 | 110 | 110 |
| S3 | 103 | 124 | 124 | 135 | 135 |
| S4 | 10 | 12 | 12 | 15 | 15 |
| S5 | 125 | 150 | 150 | 165 | 165 |
| S6 | 120 h7 | 151 f7 | 151 f7 | 170 f7 | 170 f7 |
| S7 | 100 h7 | 125 f7 | 125 f7 | 150 f7 | 150 f7 |
| S8 | 70 | 80 | 80 | 110 | 110 |
| S9 | M16 (3) | M16 (3) | M16 (3) | M16 (4) | M16 (4) |
| S10 | 35 | 35 | 35 | 35 | 35 |
| S11 | 120° | 120° | 120° | 90° | 90° |

| | RE - RA | | | GB - GBA | |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 6000 | | 8000 | 12010 | 16000 |
| | HS | H6S | HS | HS | HS |
| Su1 | N120x3x9H DIN 5480 | N150x5x9H DIN 5480 | N150x5x9H DIN 5480 | N170x5x9H DIN 5480 | N170x5x9H DIN 5480 |
| Su2 | 120 H7 | 151 H7 | 151 H7 | 175 H7 | 175 H7 |
| Su3 | 10.5 | 11 | 11 | 14 | 14 |
| Su4 | 12 | 33 | 33 | 15 | 15 |
| Su5 | 31 | 33 | 33 | 42 | 42 |
| Su6 | 120 H7 | 151 H7 | 151 H7 | 170 H7 | 170 H7 |
| Su7 | 124.5 | 150 | 150 | 163 | 163 |
| Su8 | 137 | 172 | 172 | 200 | 200 |
| Su9 | 3 | 3 | 3 | 3 | 3 |
| Su10 | 3 | 3 | 3 | 3 | 3 |

| | stages | RE - RA | | | GB - GBA | |
|------------|------------|-------------|--------|---------|----------|--------|
| | | 6000 | | 8000 | 12010 | 16000 |
| | | HS | H6S | HS | HS | HS |
| A1 | | 490 | 490 | 490 | 610 | 610 |
| F2 | | 410 f7 | 410 h8 | 410 h8 | 515 h8 | 515 h8 |
| F3 | | 445 | 445 | 445 | 560 | 560 |
| F4 | | 15 | 15 | 15 | 20 | 20 |
| F5 | | 187 | 178.5 | 181.5 | 230 | 230 |
| F6 | | Ø19 | Ø19 | Ø19 | Ø25 | Ø25 |
| | | M18 M18 M18 | | M24 M24 | | |
| F7 | | 7°30' | 7°30' | 7°30' | 15° | 15° |
| F8 | | 15° | 15° | 15° | 7°30' | 7°30' |
| F9 | | 7°30' | 7°30' | 7°30' | 7°30' | 7°30' |
| FA1 | | 226 | 126 | 126 | 145 | 145 |
| FL | 1 | 145 | 136.5 | 136.5 | 160.5 | 160.5 |
| | 2 | 313.5 | 305 | 390.5 | 410 | 427 |
| | 3 | 406.5 | 398 | 518.5 | 538 | 668 |
| | 4 | 465 | 456.5 | 603.5 | 623 | 761 |
| | 5 | — | — | 668 | 687.5 | 825.5 |
| FL7 | 2 | 399 | 390.5 | 390.5 | — | — |
| | 3 | 519.5 | 511 | 584.5 | 604 | 681 |
| | 4 | 528.5 | 520 | 660.5 | 680 | 874 |
| | 5 | — | — | — | 745 | 883 |
| | FL8 | 2 | 589 | 580.5 | 580.5 | — |
| 3 | | 647.5 | 639 | 712.5 | 732 | 871 |
| 4 | | 619.5 | 611 | 768.5 | 788 | 1002 |
| 5 | | — | — | — | 836 | 974 |
| G2 | | | 260 f7 | — | — | — |
| G4 | | 181 | — | — | — | — |
| G5 | | 33 | — | — | — | — |
| T3 | 2 | 432 | 432 | 432 | — | — |
| | 3 | 310 | 310 | 310 | 310 | 432 |
| | 4 | 171 | 171 | 227 | 227 | 310 |
| | 5 | — | — | — | 171 | 171 |
| | T4 | 2 | 295 | 295 | 295 | — |
| 3 | | 293 | 293 | 293 | 293 | 295 |
| 4 | | 183 | 183 | 242 | 242 | 293 |
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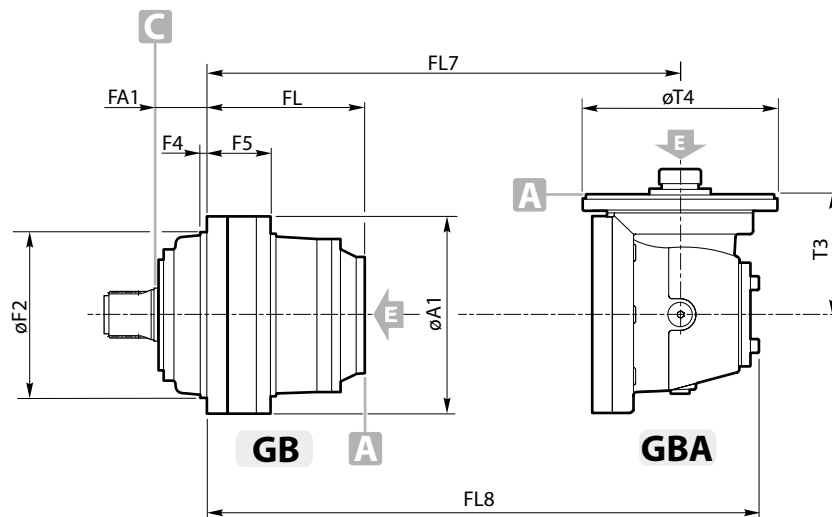
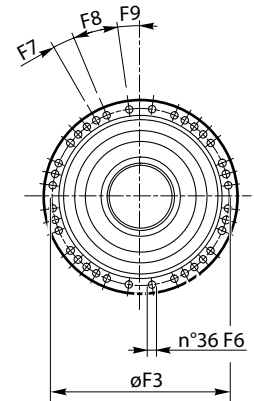
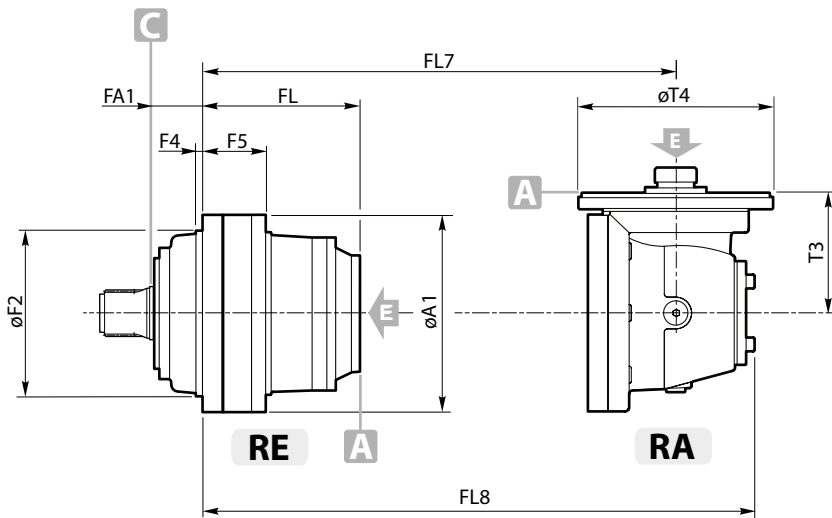


HS 6000

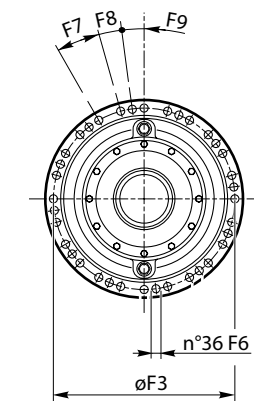


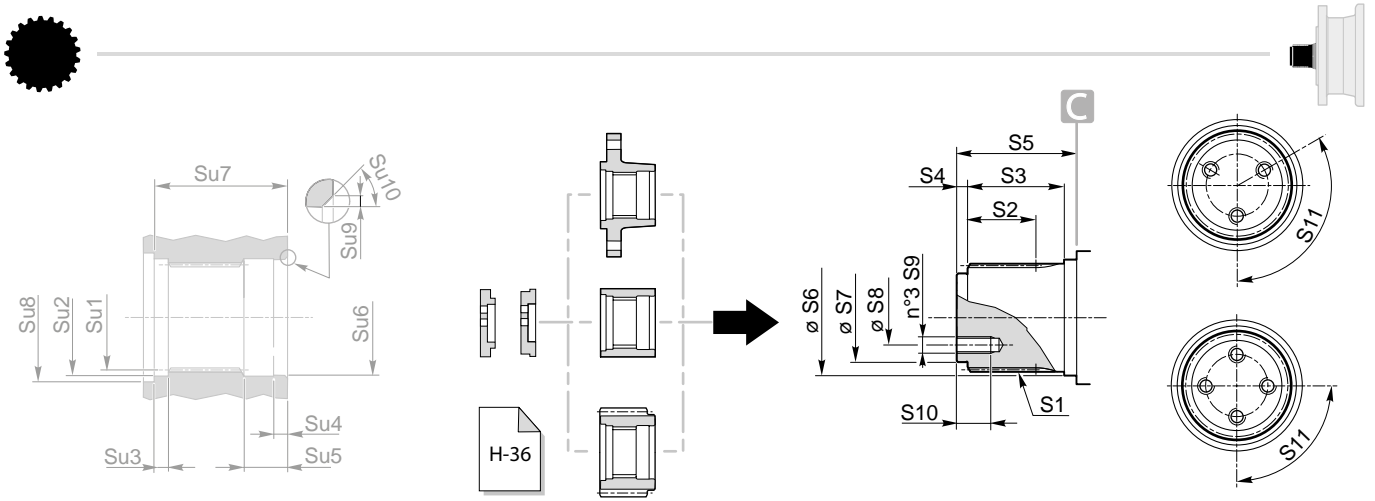
H6S 6000

HS 8000



HS 12010 - 16000

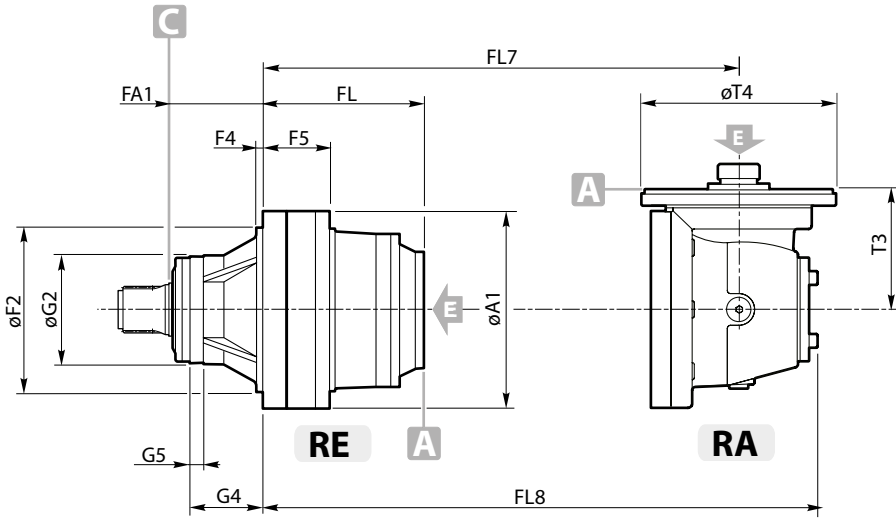




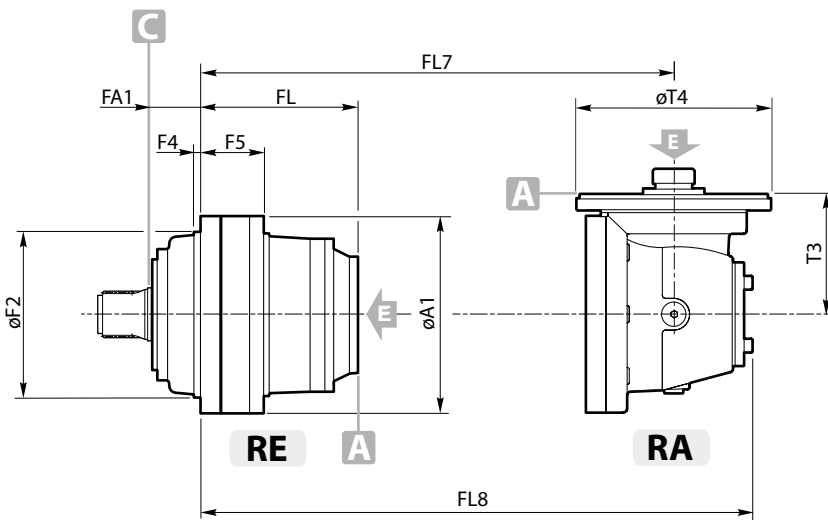
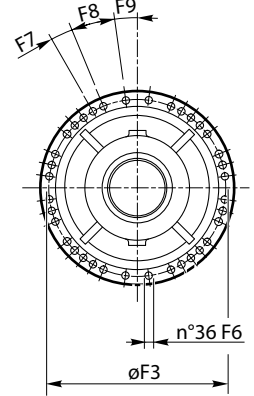
| | RE - RA | | | GB - GBA | |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 6000L | | 8000L | 12010L | 16000L |
| | HS | H6S | HS | HS | HS |
| S1 | W120x3x8f DIN 5480 | W150x5x8f DIN 5480 | W150x5x8f DIN 5480 | W170x5x8f DIN 5480 | W170x5x8f DIN 5480 |
| S2 | 85 | 107 | 107 | 110 | 110 |
| S3 | 103 | 124 | 124 | 135 | 135 |
| S4 | 10 | 12 | 12 | 15 | 15 |
| S5 | 125 | 150 | 150 | 165 | 165 |
| S6 | 120 h7 | 151 f7 | 151 f7 | 170 f7 | 170 f7 |
| S7 | 100 h7 | 125 f7 | 125 f7 | 150 f7 | 150 f7 |
| S8 | 70 | 80 | 80 | 110 | 110 |
| S9 | M16 (3) | M16 (3) | M16 (3) | M16 (4) | M16 (4) |
| S10 | 35 | 35 | 35 | 35 | 35 |
| S11 | 120° | 120° | 120° | 90° | 90° |

| | RE - RA | | | GB - GBA | |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 6000L | | 8000L | 12010L | 16000L |
| | HS | H6S | HS | HS | HS |
| Su1 | N120x3x9H DIN 5480 | N150x5x9H DIN 5480 | N150x5x9H DIN 5480 | N170x5x9H DIN 5480 | N170x5x9H DIN 5480 |
| Su2 | 120 H7 | 151 H7 | 151 H7 | 175 H7 | 175 H7 |
| Su3 | 10.5 | 11 | 11 | 14 | 14 |
| Su4 | 12 | 33 | 33 | 15 | 15 |
| Su5 | 31 | 33 | 33 | 42 | 42 |
| Su6 | 120 H7 | 151 H7 | 151 H7 | 170 H7 | 170 H7 |
| Su7 | 124.5 | 150 | 150 | 163 | 163 |
| Su8 | 137 | 172 | 172 | 200 | 200 |
| Su9 | 3 | 3 | 3 | 3 | 3 |
| Su10 | 3 | 3 | 3 | 3 | 3 |

| | stages | RE - RA | | | GB - GBA | |
|------------|------------|-------------|--------|-------------|----------|--------|
| | | 6000L | | 8000L | 12010L | 16000L |
| | | HS | H6S | HS | HS | HS |
| A1 | | 490 | 490 | 490 | 610 | 610 |
| F2 | | 410 f7 | 410 h8 | 410 h8 | 515 h8 | 515 h8 |
| F3 | | 445 | 445 | 445 | 560 | 560 |
| F4 | | 15 | 15 | 15 | 20 | 20 |
| F5 | | 187 | 178.5 | 181.5 | 230 | 230 |
| F6 | | Ø19 | Ø19 | Ø19 | Ø25 | Ø25 |
| | | M... - 12.9 | | M... - 10.9 | | |
| | | M18 | M18 | M18 | M24 | M24 |
| F7 | | 7°30' | 7°30' | 7°30' | 15° | 15° |
| F8 | | 15° | 15° | 15° | 7°30' | 7°30' |
| F9 | | 7°30' | 7°30' | 7°30' | 7°30' | 7°30' |
| FA1 | | 226 | 126 | 126 | 145 | 145 |
| FL | 1 | 145 | 136.5 | 136.5 | 160.5 | 160.5 |
| | 2 | 313.5 | 305 | 390.5 | 410 | 427 |
| | 3 | 406.5 | 398 | 501.5 | 521 | 619 |
| | 4 | 471 | 462.5 | 568.5 | 588 | 704 |
| | 5 | — | — | 621 | 640.5 | 768.5 |
| FL7 | 2 | 399 | 390.5 | 390.5 | — | — |
| | 3 | 519.5 | 511 | 584.5 | 604 | 681 |
| | 4 | 528.5 | 520 | 643.5 | 663 | 761 |
| | 5 | — | — | — | 710 | 826 |
| | FL8 | 2 | 589 | 580.5 | 580.5 | — |
| 3 | | 647.5 | 639 | 712.5 | 732 | 871 |
| 4 | | 619.5 | 611 | 751.5 | 771 | 869 |
| 5 | | — | — | — | 801 | 917 |
| G2 | | | 260 f7 | — | — | — |
| G4 | | 181 | — | — | — | — |
| G5 | | 33 | — | — | — | — |
| T3 | 2 | 432 | 432 | 432 | / | / |
| | 3 | 310 | 310 | 310 | 310 | 432 |
| | 4 | 171 | 171 | 227 | 227 | 227 |
| | 5 | — | — | — | 171 | 171 |
| | T4 | 2 | 295 | 295 | 295 | — |
| 3 | | 293 | 293 | 293 | 293 | 295 |
| 4 | | 183 | 183 | 242 | 242 | 242 |
| 5 | | — | — | — | 183 | 183 |

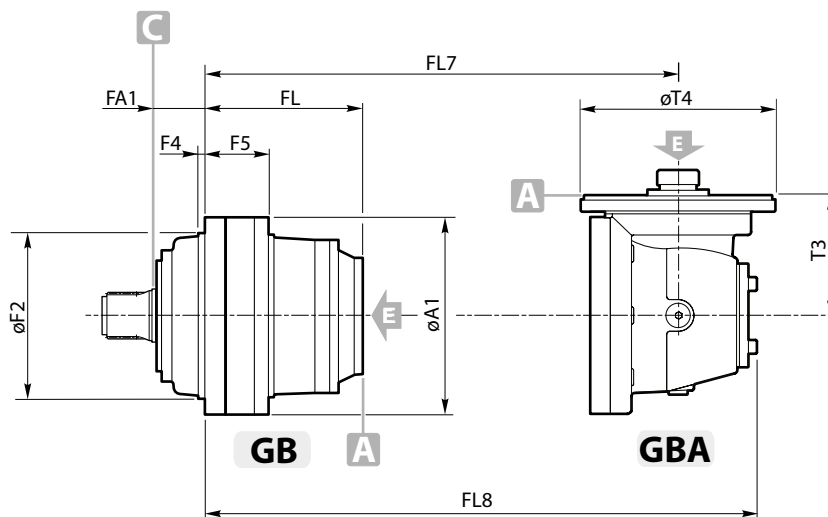
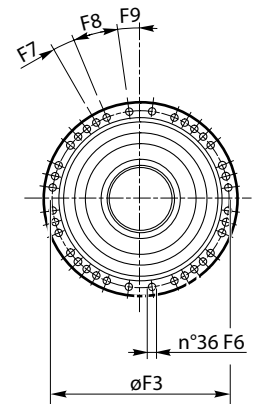


HS 6000L

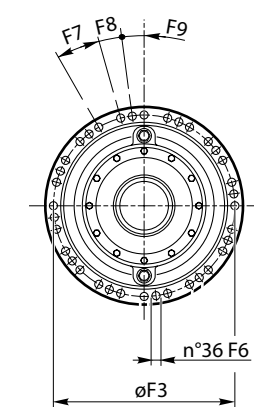


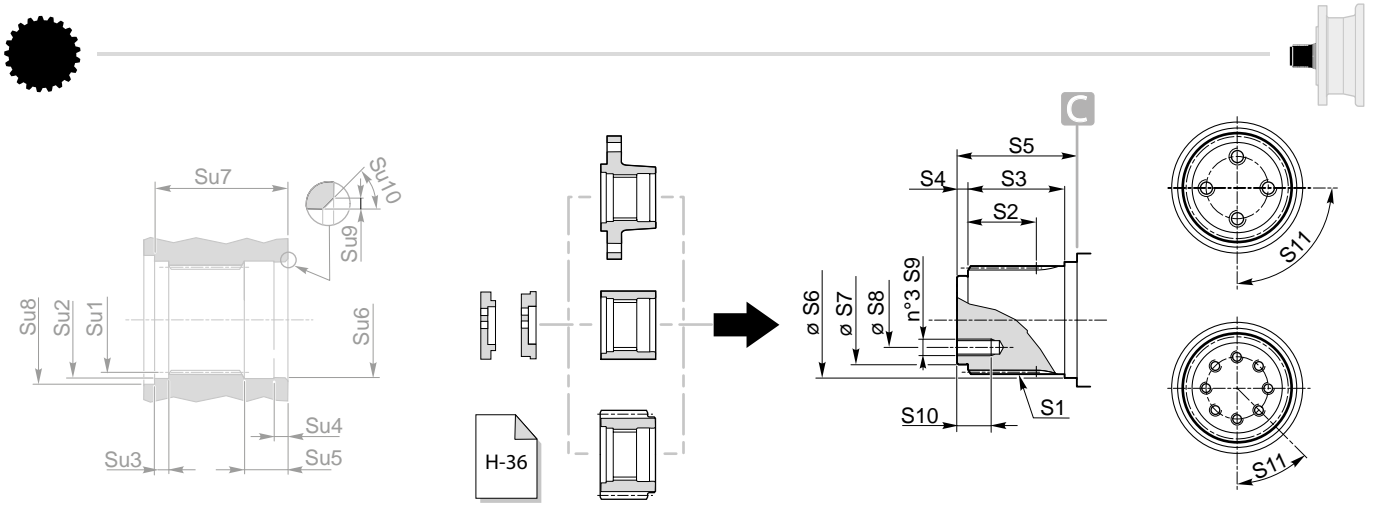
H6S 6000L

HS 8000L



HS 12010L-16000L

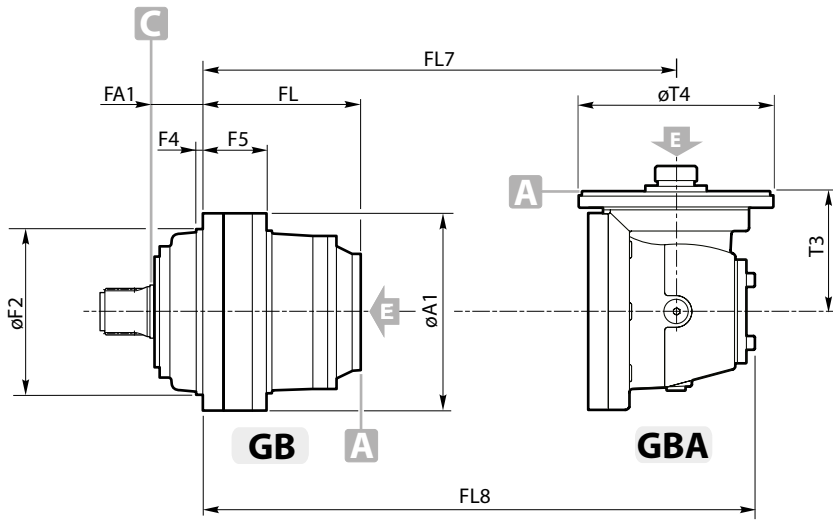




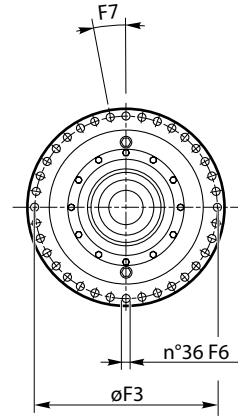
| RE - RA | | | | | |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 21000 | 26000 | 31000 | 40000 | 45000 |
| S1 | W220x5x8f DIN 5480 | W220x5x8f DIN 5480 | W280x5x8f DIN 5480 | W280x5x8f DIN 5480 | W280x5x8f DIN 5480 |
| S2 | 140 | 140 | 175 | 175 | 175 |
| S3 | 167 | 167 | 210 | 210 | 210 |
| S4 | 20 | 20 | 25 | 25 | 25 |
| S5 | 210 | 210 | 260 | 260 | 260 |
| S6 | 220 f7 | 220 f7 | 283 f7 | 283 f7 | 283 f7 |
| S7 | 200 f7 | 200 f7 | 260 f7 | 260 f7 | 260 f7 |
| S8 | 150 | 150 | 200 | 200 | 200 |
| S9 | M24(x4) | M24(x4) | M24(x8) | M24(x8) | M24(x8) |
| S10 | 50 | 50 | 50 | 50 | 50 |
| S11 | 90° | 90° | 45° | 45° | 45° |

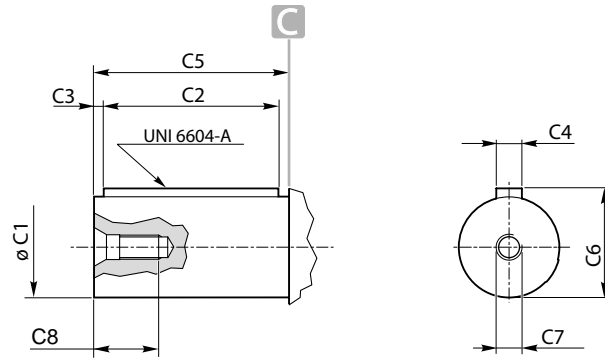
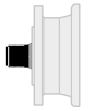
| RE - RA | | | | | |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 21000 | 26000 | 31000 | 40000 | 45000 |
| Su1 | N220x5x9H DIN 5480 | N220x5x9H DIN 5480 | N280x5x9H DIN 5480 | N280x5x9H DIN 5480 | N280x5x9H DIN 5480 |
| Su2 | 230 H7 | 230 H7 | 300 H7 | 300 H7 | 300 H7 |
| Su3 | 16 | 16 | 24.5 | 24.5 | 24.5 |
| Su4 | 23 | 23 | 25 | 25 | 25 |
| Su5 | 51.5 | 51.5 | 65 | 65 | 65 |
| Su6 | 220 H7 | 220 H7 | 283 H7 | 283 H7 | 283 H7 |
| Su7 | 205 | 205 | 260 | 260 | 260 |
| Su8 | 262 | 262 | 302 | 302 | 302 |
| Su9 | 3 | 3 | 3 | 3 | 3 |
| Su10 | 3 | 3 | 3 | 3 | 3 |

| RE - RA | | | | | | |
|------------|--------|-------------|--------|--------|--------|--------|
| | stages | 21000 | 26000 | 31000 | 40000 | 45000 |
| A1 | | 710 | 710 | 870 | 870 | 870 |
| F2 | | 600 h8 | 600 h8 | 760 h8 | 760 h8 | 760 h8 |
| F3 | | 660 | 660 | 810 | 810 | 810 |
| F4 | | 23.5 | 23.5 | 35 | 35 | 35 |
| F5 | | 196 | 216 | 250 | 290 | 290 |
| F6 | | Ø28 | Ø28 | Ø32 | Ø32 | Ø32 |
| | | M... - 10.9 | | | | |
| F7 | | M27 | M27 | M30 | M30 | M30 |
| F7 | | 10° | 10° | 10° | 10° | 10° |
| FA1 | | 180 | 180 | 225 | 225 | 225 |
| FL | 1 | 138 | 158 | 180 | 220 | 220 |
| | 2 | 443 | 463 | 588.5 | 628.5 | 628.5 |
| | 3 | 611.5 | 717 | 838 | 878 | 895 |
| | 4 | 704.5 | 845 | 966 | 1006 | 1136 |
| | 5 | 763 | 930 | 1051 | 1091 | 1229 |
| FL7 | 3 | 697 | 717 | / | / | / |
| | 4 | 817.5 | 911 | 1032 | 1072 | 1149 |
| | 5 | 826.5 | 987 | 1108 | 1148 | 1342 |
| FL8 | 3 | 887 | 907 | / | / | / |
| | 4 | 945.5 | 1039 | 1160 | 1200 | 1339 |
| | 5 | 917.5 | 1095 | 1216 | 1256 | 1470 |
| T3 | 3 | 432 | 432 | / | / | / |
| | 4 | 310 | 310 | 310 | 310 | 432 |
| | 5 | 171 | 227 | 227 | 227 | 310 |
| T4 | 3 | 295 | 295 | / | / | / |
| | 4 | 293 | 293 | 293 | 293 | 295 |
| | 5 | 183 | 242 | 242 | 242 | 293 |



21000 ÷ 45000





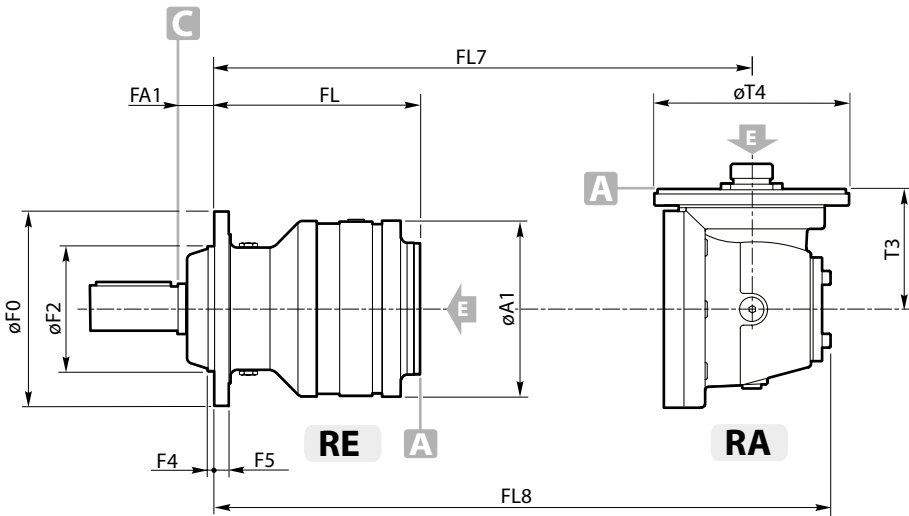
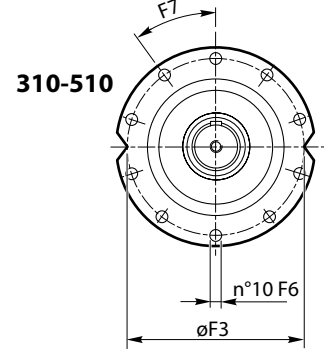
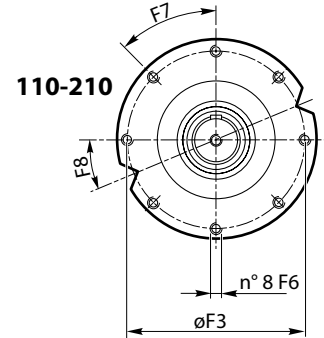
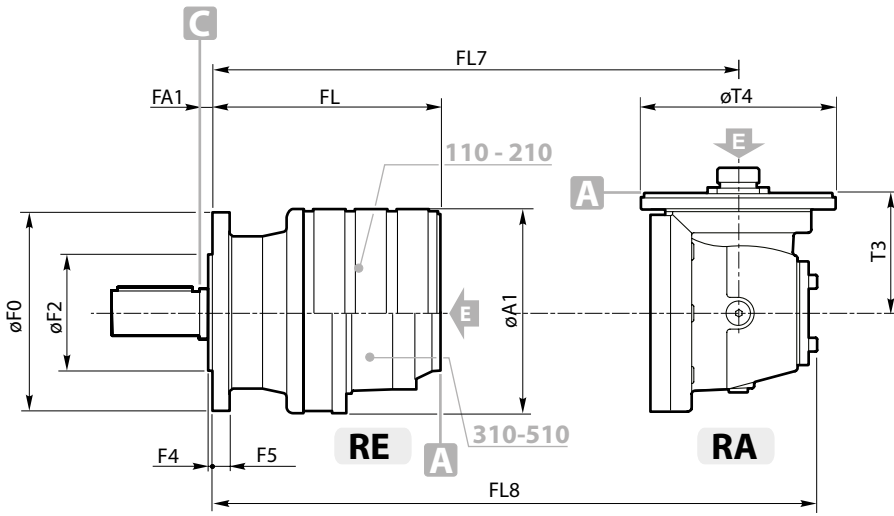
| | | RE - RA | | | | | |
|----|----|---------|-------|-------|-------|-------|-------|
| | | 110 | 210 | 310 | 510 | 610 | 810 |
| NC | C1 | 38 h7 | 38 h7 | 50 h7 | 50 h7 | 50 h7 | 80 h6 |
| | C2 | 50 | 50 | 90 | 90 | 90 | 110 |
| | C3 | 4 | 4 | 8 | 8 | 8 | 8 |
| | C4 | 10 | 10 | 14 | 14 | 14 | 22 |
| | C5 | 58 | 58 | 105 | 105 | 105 | 130 |
| | C6 | 41 | 41 | 53.5 | 53.5 | 53.5 | 85 |
| | C7 | M12 | M12 | M14 | M14 | M14 | M20 |
| | C8 | 20 | 20 | 30 | 30 | 30 | 45 |

| | | RE - RA | | | | | |
|----|----|---------|-------|-------|-------|-------|-----|
| | | 110 | 210 | 310 | 510 | 610 | 810 |
| NK | C1 | 42 h7 | 42 h7 | 60 h7 | 60 h7 | 60 h7 | — |
| | C2 | 70 | 70 | 90 | 90 | 90 | — |
| | C3 | 6 | 6 | 8 | 8 | 8 | — |
| | C4 | 12 | 12 | 18 | 18 | 18 | — |
| | C5 | 82 | 82 | 105 | 105 | 105 | — |
| | C6 | 45 | 45 | 64 | 64 | 64 | — |
| | C7 | M16 | M16 | M16 | M16 | M16 | — |
| | C8 | 30 | 30 | 30 | 30 | 30 | — |

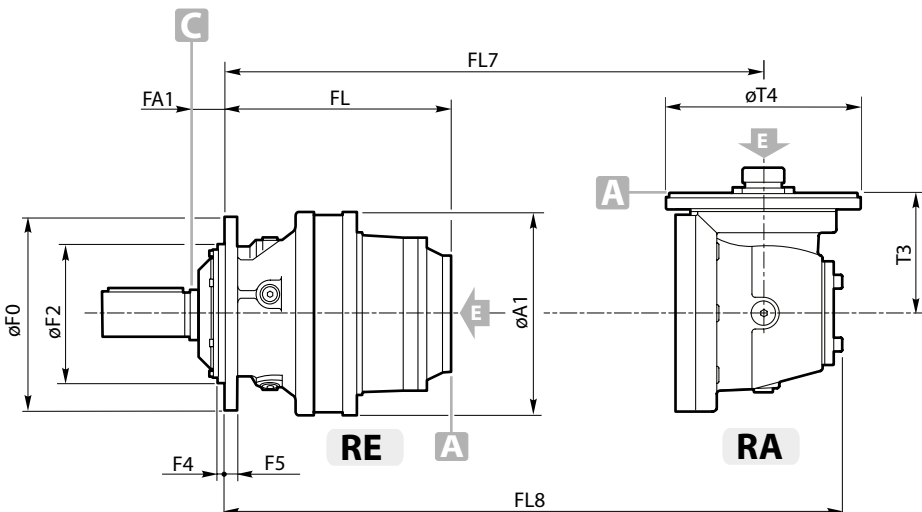
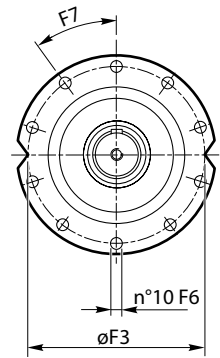
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|-----|----|---------|-----|-------|-------|-------|-----|
| | | 110 | 210 | 310 | 510 | 610 | 810 |
| NK1 | C1 | — | — | 65 h7 | 65 h7 | 65 h7 | — |
| | C2 | — | — | 90 | 90 | 90 | — |
| | C3 | — | — | 8 | 8 | 8 | — |
| | C4 | — | — | 18 | 18 | 18 | — |
| | C5 | — | — | 105 | 105 | 105 | — |
| | C6 | — | — | 69 | 69 | 69 | — |
| | C7 | — | — | M20 | M20 | M20 | — |
| | C8 | — | — | 40 | 40 | 40 | — |

| | | RE - RA | | | | | |
|-----|--------|-----------|--------|--------|--------|--------|--------|
| | stages | 110 | 210 | 310 | 510 | 610 | 810 |
| A1 | | 186 | 186 | 244 | 244 | 244 | 295 |
| F0 | | 185 | 185 | 222 | 222 | 222 | 280 |
| F2 | | 110 h7 | 110 h7 | 150 f7 | 150 f7 | 150 f7 | 200 f7 |
| F3 | | 165 | 165 | 195 | 195 | 195 | 250 |
| F4 | | 5 | 5 | 13.5 | 13.5 | 13.5 | 10.5 |
| F5 | | 12 | 12 | 16 | 16 | 16 | 18 |
| F6 | | 10.5 | 10.5 | 12.5 | 12.5 | 12.5 | 15 |
| | | M. - 12.9 | | | | | |
| F7 | | M10 | M10 | M12 | M12 | M12 | M14 |
| F8 | | 45° | 45° | 36° | 36° | 36° | 30° |
| F8 | | 22.5° | 22.5° | — | — | — | — |
| FA1 | | 6.5 | 6.5 | 15 | 15 | 15 | 40 |
| FL | 1 | 95 | 107 | 133 | 151 | 151 | 162.5 |
| | 2 | 138 | 150 | 185.5 | 215.5 | 209.5 | 229.5 |
| | 3 | 181 | 193 | 228.5 | 258.5 | 262 | 282 |
| | 4 | 224 | 236 | 271.5 | 301.5 | 305 | 325 |
| FL7 | 2 | 176 | 188 | 255 | 273 | 273 | 304.5 |
| | 3 | 219 | 231 | 266.5 | 296.5 | 331.5 | 351.5 |
| | 4 | 262 | 274 | 309.5 | 339.5 | 343 | 363 |
| FL8 | 2 | 250.5 | 262.5 | 346 | 364 | 364 | 412.5 |
| | 3 | 293.5 | 305.5 | 341 | 371 | 422.5 | 442.5 |
| | 4 | 336.5 | 348.5 | 384 | 414 | 417.5 | 437.5 |
| T3 | 2 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 | 277 |
| | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | 184 | 184 | 183 | 183 | 183 | 242 |
| | 3 | 184 | 184 | 184 | 184 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 | 184 |

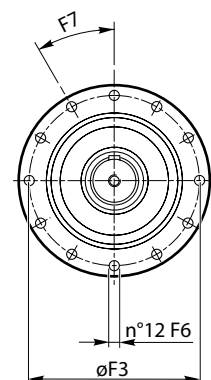
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310 - 510**

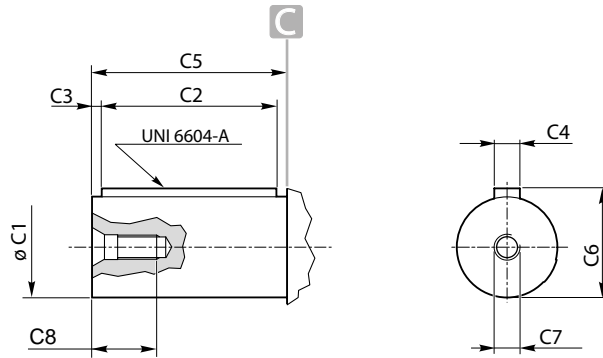


610



810



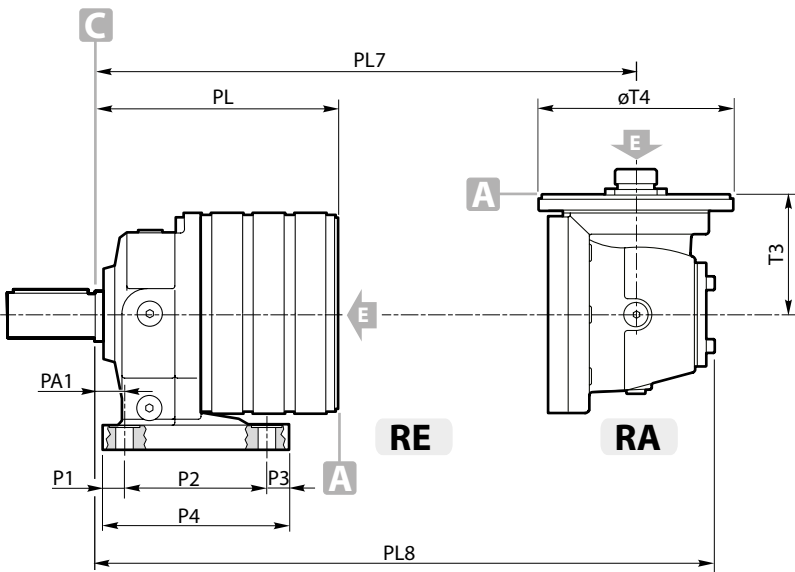


| | | RE - RA | | | | | | |
|-----------|-----------|---------|-------|-------|-------|-------|-------|-------|
| | | 110 | 210 | 310 | 510 | 610 | 810 | 1020 |
| PC | C1 | 38 h7 | 38 h7 | 50 h7 | 50 h7 | 50 h7 | 80 h6 | 80 h6 |
| | C2 | 50 | 50 | 90 | 90 | 90 | 110 | 110 |
| | C3 | 4 | 4 | 8 | 8 | 8 | 8 | 8 |
| | C4 | 10 | 10 | 14 | 14 | 14 | 22 | 22 |
| | C5 | 58 | 58 | 105 | 105 | 105 | 130 | 130 |
| | C6 | 41 | 41 | 53.5 | 53.5 | 53.5 | 85 | 85 |
| | C7 | M12 | M12 | M14 | M14 | M14 | M20 | M20 |
| | C8 | 20 | 20 | 30 | 30 | 30 | 45 | 45 |

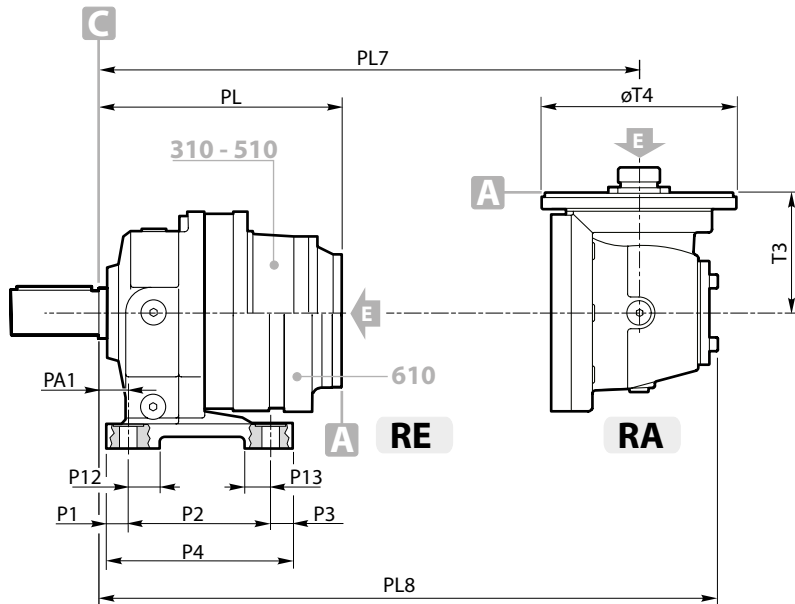
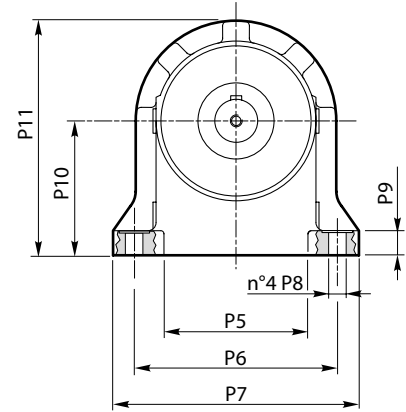
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|-----------|-----------|---------|-------|-------|-------|-------|-----|------|
| | | 110 | 210 | 310 | 510 | 610 | 810 | 1020 |
| PK | C1 | 42 h7 | 42 h7 | 60 h7 | 60 h7 | 60 h7 | — | — |
| | C2 | 70 | 70 | 90 | 90 | 90 | — | — |
| | C3 | 6 | 6 | 8 | 8 | 8 | — | — |
| | C4 | 12 | 12 | 18 | 18 | 18 | — | — |
| | C5 | 82 | 82 | 105 | 105 | 105 | — | — |
| | C6 | 45 | 45 | 53.5 | 53.5 | 53.5 | — | — |
| | C7 | M16 | M16 | M16 | M16 | M16 | — | — |
| | C8 | 30 | 30 | 30 | 30 | 30 | — | — |

| | | RE - RA | | | | | | |
|------------|-----------|---------|-----|-------|-------|-------|-----|------|
| | | 110 | 210 | 310 | 510 | 610 | 810 | 1020 |
| PK1 | C1 | / | / | 65 h7 | 65 h7 | 65 h7 | — | — |
| | C2 | / | / | 90 | 90 | 90 | — | — |
| | C3 | / | / | 8 | 8 | 8 | — | — |
| | C4 | / | / | 18 | 18 | 18 | — | — |
| | C5 | / | / | 105 | 105 | 105 | — | — |
| | C6 | / | / | 69 | 69 | 69 | — | — |
| | C7 | / | / | M20 | M20 | M20 | — | — |
| | C8 | / | / | 40 | 40 | 40 | — | — |

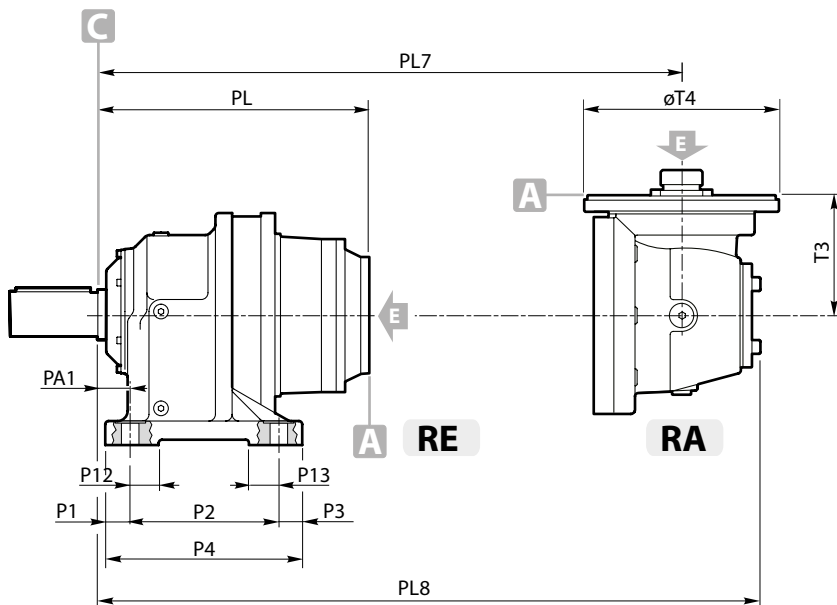
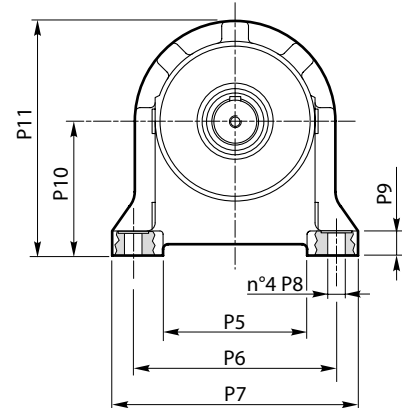
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|------------|---|-------------|-------|-------|-------|-------|-------|-------|
| | | 110 | 210 | 310 | 510 | 610 | 810 | 1020 |
| P1 | | 20 | 20 | 28 | 28 | 28 | 35 | 35 |
| P2 | | 132 | 132 | 180 | 180 | 180 | 225 | 225 |
| P3 | | 20 | 20 | 28 | 28 | 28 | 35 | 35 |
| P4 | | 172 | 172 | 236 | 236 | 236 | 295 | 295 |
| P5 | | 134 | 134 | 180 | 180 | 180 | 206 | 206 |
| P6 | | 190 | 190 | 250 | 250 | 250 | 300 | 300 |
| P7 | | 230 | 230 | 310 | 310 | 310 | 370 | 370 |
| P8 | | Ø14 | Ø14 | Ø22 | Ø22 | Ø22 | Ø26 | Ø26 |
| | | M... - 12.9 | | | | | | |
| | | M12 | M12 | M20 | M20 | M20 | M24 | M24 |
| P9 | | 23 | 23 | 26.5 | 26.5 | 26.5 | 36 | 36 |
| P10 | | 125 | 125 | 160 | 160 | 160 | 200 | 200 |
| P11 | | 218 | 218 | 282 | 282 | 282 | 347.5 | 347.5 |
| P12 | | — | — | 21 | 21 | 21 | 45 | 45 |
| P13 | | — | — | 21 | 21 | 21 | 45 | 45 |
| PA1 | | 20 | 20 | 29 | 29 | 29 | 35 | 35 |
| PL | 1 | 101.5 | 113.5 | 148 | 166 | 166 | 225 | 242 |
| | 2 | 144.5 | 156.5 | 200.5 | 230.5 | 224.5 | 292 | 327 |
| | 3 | 187.5 | 199.5 | 243.5 | 273.5 | 277 | 344.5 | 391.5 |
| | 4 | 230.5 | 242.5 | 286.5 | 316.5 | 320 | 387.5 | 434.5 |
| PL7 | 2 | 182.5 | 194.5 | 297 | 315 | 288 | 367 | 384 |
| | 3 | 225.5 | 237.5 | 281.5 | 311.5 | 346.5 | 414 | 449 |
| | 4 | 268.5 | 280.5 | 324.5 | 354.5 | 358 | 425.5 | 472.5 |
| | 2 | 257 | 269 | 361 | 379 | 379 | 475 | 492 |
| PL8 | 3 | 300 | 312 | 356 | 386 | 437.5 | 505 | 540 |
| | 4 | 343 | 355 | 399 | 429 | 432.5 | 500 | 547 |
| | 2 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 | 277 | 277 |
| T3 | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| | 2 | 184 | 184 | 183 | 183 | 183 | 242 | 242 |
| T4 | 3 | 184 | 184 | 184 | 184 | 183 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |



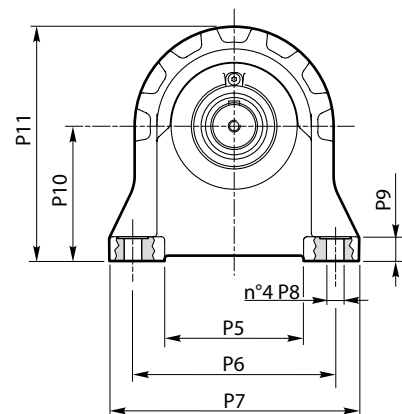
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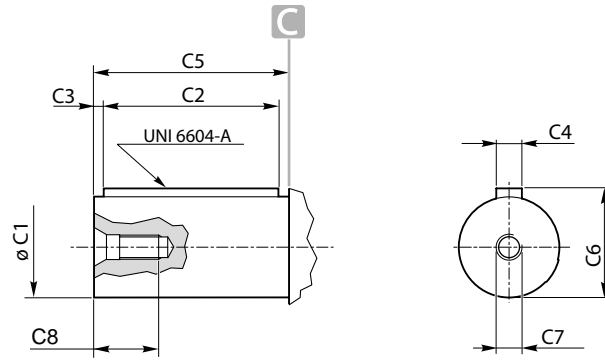


**310 - 510
610**



810 - 1020

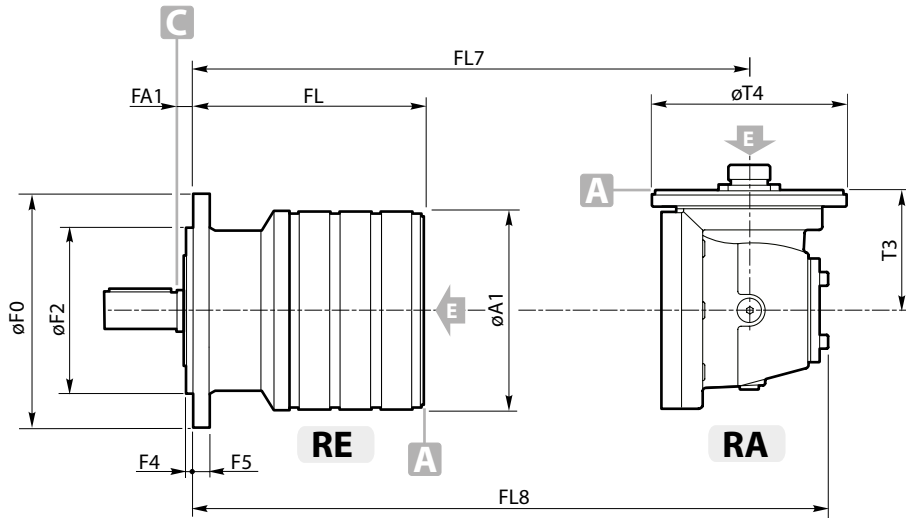




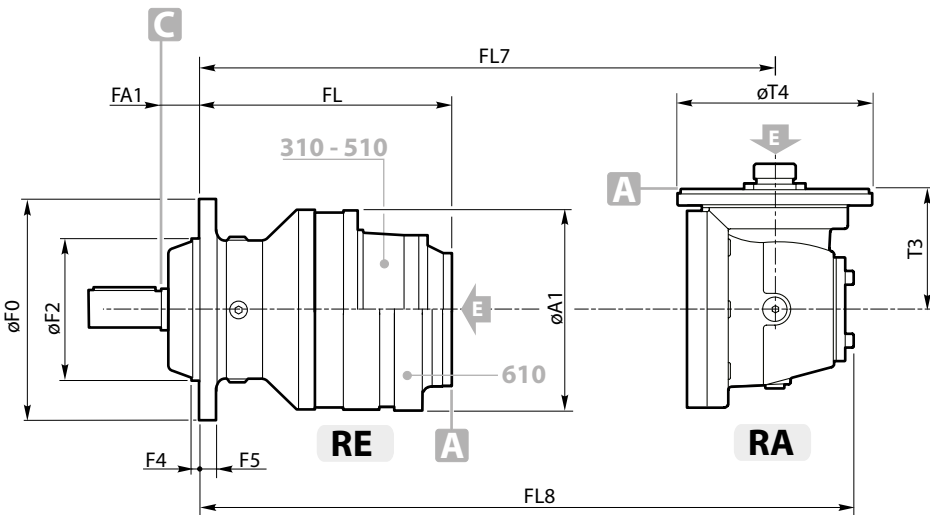
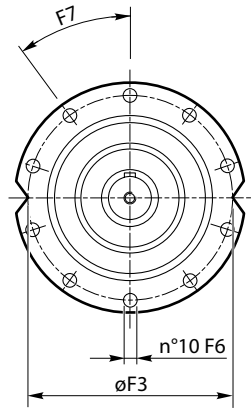
| | | RE - RA | | | | | |
|---------------------------------|----|---------|-------|-------|-------|-------|-------|
| | | 110 | 210 | 240 | 310 | 510 | 610 |
| TC T1C TRC TR1C TLC | C1 | 50 h7 | 50 h7 | 50 h7 | 60 h7 | 60 h7 | 60 h7 |
| | C2 | 90 | 90 | 90 | 90 | 90 | 90 |
| | C3 | 5 | 5 | 5 | 8 | 8 | 8 |
| | C4 | 14 | 14 | 14 | 18 | 18 | 18 |
| | C5 | 100 | 100 | 100 | 105 | 105 | 105 |
| | C6 | 53.5 | 53.5 | 53.5 | 64 | 64 | 64 |
| | C7 | M12 | M12 | M12 | M16 | M16 | M16 |
| | C8 | 30 | 30 | 30 | 30 | 30 | 30 |

| | | RE - RA | | | | | |
|-----------|----|---------|-----|-----|-------|-------|-------|
| | | 110 | 210 | 240 | 310 | 510 | 610 |
| TK TLK | C1 | / | / | / | 65 h7 | 65 h7 | 65 h7 |
| | C2 | / | / | / | 90 | 90 | 90 |
| | C3 | / | / | / | 8 | 8 | 8 |
| | C4 | / | / | / | 18 | 18 | 18 |
| | C5 | / | / | / | 105 | 105 | 105 |
| | C6 | / | / | / | 69 | 69 | 69 |
| | C7 | / | / | / | M20 | M20 | M20 |
| | C8 | / | / | / | 40 | 40 | 40 |

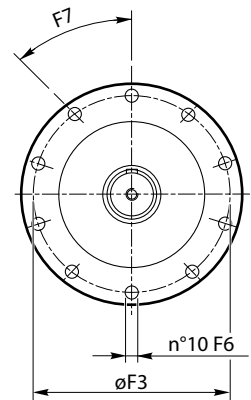
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|--------|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 110 | | | | 210 | | | | 240 | | 310 | | 510 | | 610 | |
| stages | | T_ | T1_ | TR_ | TR1_ | T_ | T1_ | TR_ | TR1_ | T_ | TR_ | T_ | TL_ | T_ | TL_ | T_ | TL_ |
| A1 | | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 244 | 244 | 244 | 244 | 244 | 244 |
| F0 | | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 272 | 272 | 272 | 272 | 272 | 272 |
| F2 | | 155 h7 | 150 f7 | 155 h7 | 150 f7 | 155 h7 | 150 f7 | 155 h7 | 150 f7 | 150 f7 | 155 f7 | 175 h8 | 175 h8 | 175 h8 | 175 h8 | 175 h8 | 175 h8 |
| F3 | | 194 | 195 | 194 | 195 | 194 | 195 | 194 | 195 | 195 | 194 | 245 | 245 | 245 | 245 | 245 | 245 |
| F4 | | 7 | 7 | 10 | 10 | 7 | 7 | 10 | 10 | 7 | 10 | 12 | 9 | 12 | 9 | 12 | 9 |
| F5 | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 | 20 |
| F6 | | Ø11 | Ø13 | Ø11 | Ø13 | Ø11 | Ø13 | Ø11 | Ø13 | Ø12.5 | Ø11 | Ø12.5 | Ø12.5 | Ø12.5 | Ø12.5 | Ø12.5 | Ø12.5 |
| | | M... - 12.9 | | | | | | | | | | | | | | | |
| F7 | | M10 | M12 | M10 | M12 | M10 | M12 | M10 | M12 | M10 | M12 | M10 | M12 | M10 | M12 | M10 | M12 |
| | | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° |
| FA1 | | 13 | 13 | 30 | 30 | 13 | 13 | 30 | 30 | 13 | 30 | 39 | 39 | 39 | 39 | 39 | 39 |
| FL | 1 | 102 | 102 | 85 | 85 | 114 | 114 | 97 | 97 | 114 | 97 | 157 | 157 | 175 | 175 | 175 | 175 |
| | 2 | 145 | 145 | 128 | 128 | 157 | 157 | 140 | 140 | 157 | 140 | 209.5 | 209.5 | 239.5 | 239.5 | 233.5 | 233.5 |
| | 3 | 188 | 188 | 171 | 171 | 200 | 200 | 183 | 183 | 200 | 183 | 252.5 | 252.5 | 282.5 | 282.5 | 286 | 286 |
| | 4 | 231 | 231 | 214 | 214 | 243 | 243 | 226 | 226 | 243 | 226 | 295.5 | 295.5 | 325.5 | 325.5 | 329 | 329 |
| FL7 | 2 | 183 | 183 | 166 | 166 | 195 | 195 | 178 | 178 | 195 | 178 | 279 | 279 | 297 | 297 | 297 | 297 |
| | 3 | 226 | 226 | 209 | 209 | 238 | 238 | 221 | 221 | 238 | 221 | 290.5 | 290.5 | 320.5 | 320.5 | 355.5 | 355.5 |
| | 4 | 269 | 269 | 252 | 252 | 281 | 281 | 264 | 264 | 281 | 264 | 333.5 | 333.5 | 363.5 | 363.5 | 367 | 367 |
| FL8 | 2 | 257.5 | 257.5 | 240.5 | 240.5 | 269.5 | 269.5 | 252.5 | 252.5 | 269.5 | 252.5 | 370 | 370 | 388 | 388 | 388 | 388 |
| | 3 | 300.5 | 300.5 | 283.5 | 283.5 | 312.5 | 312.5 | 295.5 | 295.5 | 312.5 | 295.5 | 365 | 365 | 395 | 395 | 446.5 | 446.5 |
| | 4 | 343.5 | 343.5 | 326.5 | 326.5 | 355.5 | 355.5 | 338.5 | 338.5 | 355.5 | 338.5 | 408 | 408 | 438 | 438 | 441.5 | 441.5 |
| T3 | 2 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 |
| | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 183 | 183 | 183 | 183 | 183 | 183 |
| | 3 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |

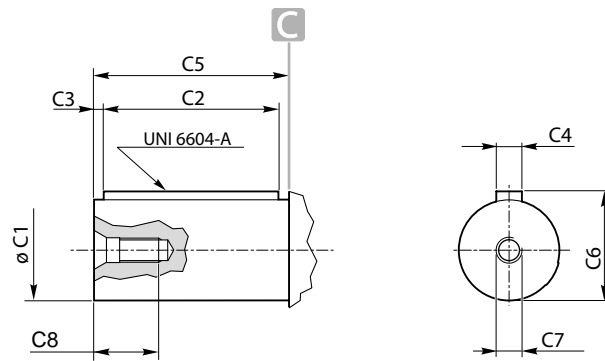


110 ÷ 240



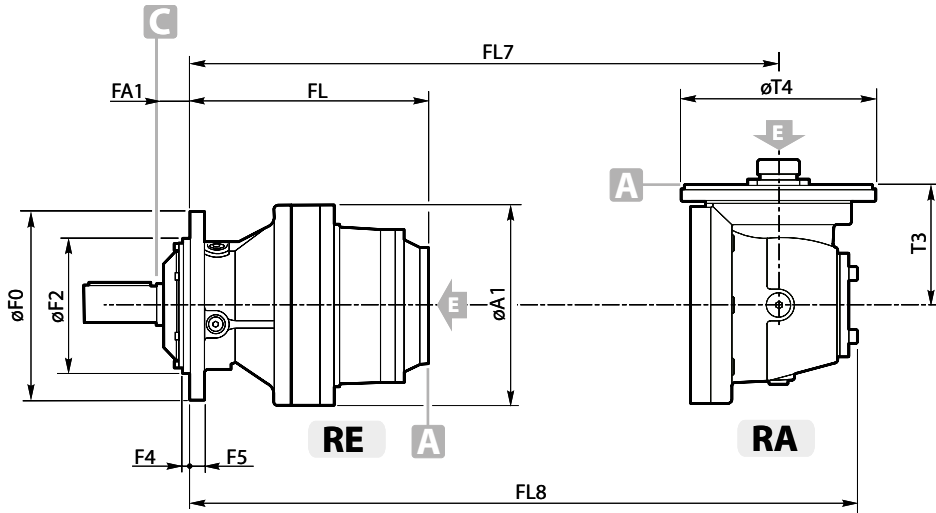
**310 - 510
610**



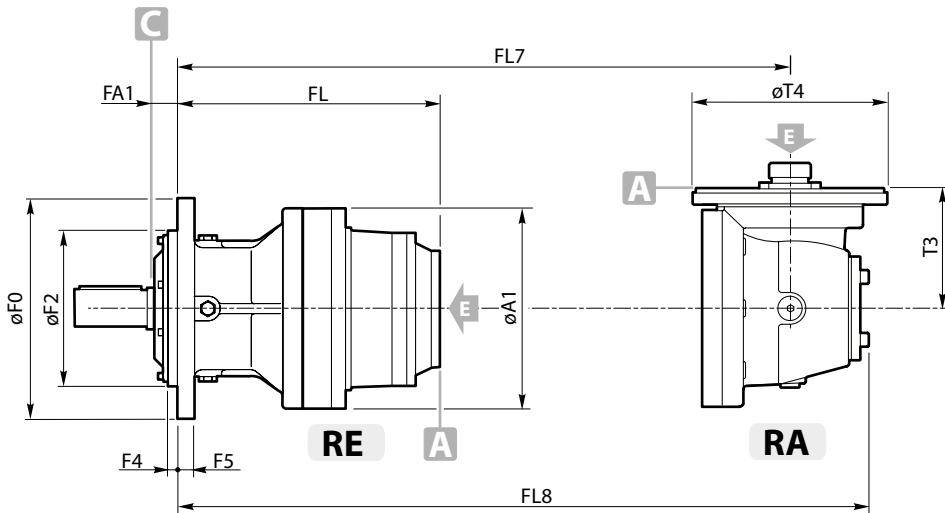
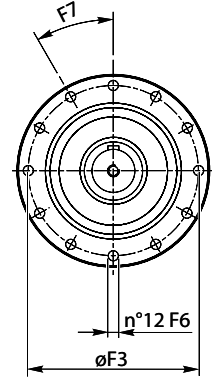


| | | RE - RA | | | | |
|----|----|---------|-------|-------|-------|-------|
| | | 810 | 1020 | 1520 | 2000 | 2000L |
| TC | C1 | 80 h6 | 90 h7 | 90 h7 | 90 h7 | 90 h7 |
| | C2 | 110 | 160 | 160 | 160 | 160 |
| | C3 | 8 | 5 | 5 | 5 | 5 |
| | C4 | 22 | 25 | 25 | 25 | 25 |
| | C5 | 130 | 170 | 170 | 170 | 170 |
| | C6 | 85 | 95 | 95 | 95 | 95 |
| | C7 | M20 | M24 | M24 | M24 | M24 |
| | C8 | 45 | 50 | 50 | 50 | 50 |

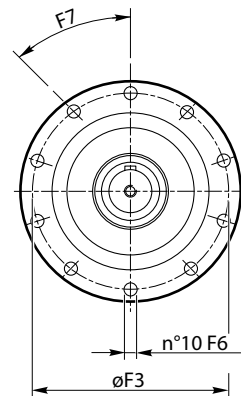
| | | RE - RA | | | | |
|-----|--------|-------------|--------|--------|--------|--------|
| | stages | 810 | 1020 | 1520 | 2000 | 2000L |
| A1 | | 295 | 295 | 350 | 350 | 350 |
| F0 | | 280 | 325 | 325 | 325 | 325 |
| F2 | | 200 f7 | 230 f7 | 230 f7 | 230 f7 | 230 f7 |
| F3 | | 250 | 295 | 295 | 295 | 295 |
| F4 | | 10.5 | 15 | 15 | 15 | 15 |
| F5 | | 22 | 25 | 28 | 28 | 28 |
| F6 | | Ø15 | Ø17 | Ø17 | Ø17 | Ø17 |
| | | M... - 12.9 | | | | |
| | | M14 | M16 | M16 | M16 | M16 |
| F7 | | 30° | 36° | 36° | 36° | 36° |
| FA1 | | 40 | 36 | 36 | 36 | 36 |
| FL | 1 | 185 | 237 | 240 | 240 | 240 |
| | 2 | 252 | 322 | 333 | 333 | 333 |
| | 3 | 304.5 | 386.5 | 397.5 | 391.5 | 397.5 |
| | 4 | 347.5 | 429.5 | 440 | 444 | 440 |
| FL7 | 2 | 326.5 | 379 | 446 | 446 | 446 |
| | 3 | 374 | 444 | 455 | 455 | 455 |
| FL8 | 4 | 385.5 | 467.5 | 478.5 | 513.5 | 478.5 |
| | 2 | 435 | 487 | 574 | 574 | 574 |
| | 3 | 465 | 535 | 546 | 546 | 546 |
| T3 | 4 | 460 | 542 | 553 | 604.5 | 553 |
| | 2 | 277 | 277 | 310 | 310 | 310 |
| | 3 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 |
| T4 | 4 | 113.8 | 113.8 | 113.8 | 171.5 | 113.8 |
| | 2 | 242 | 242 | 293 | 293 | 293 |
| | 3 | 183 | 183 | 183 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 183 | 184 |

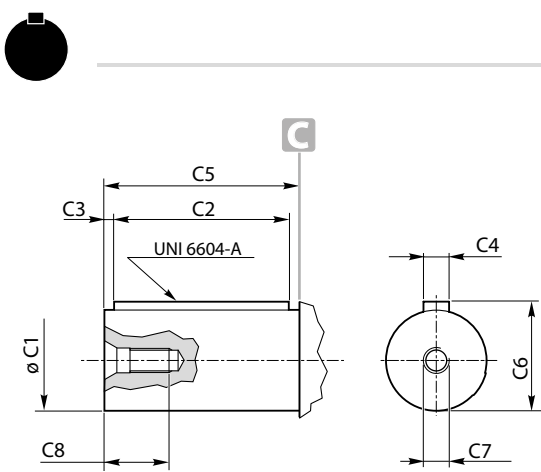


810

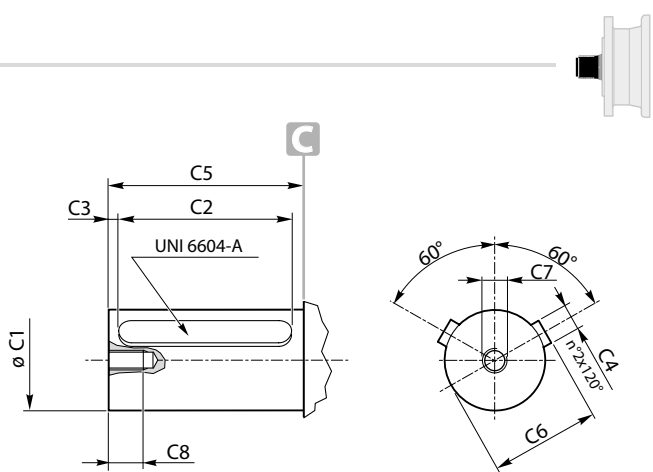


**1020 - 1520
2000 - 2000L**





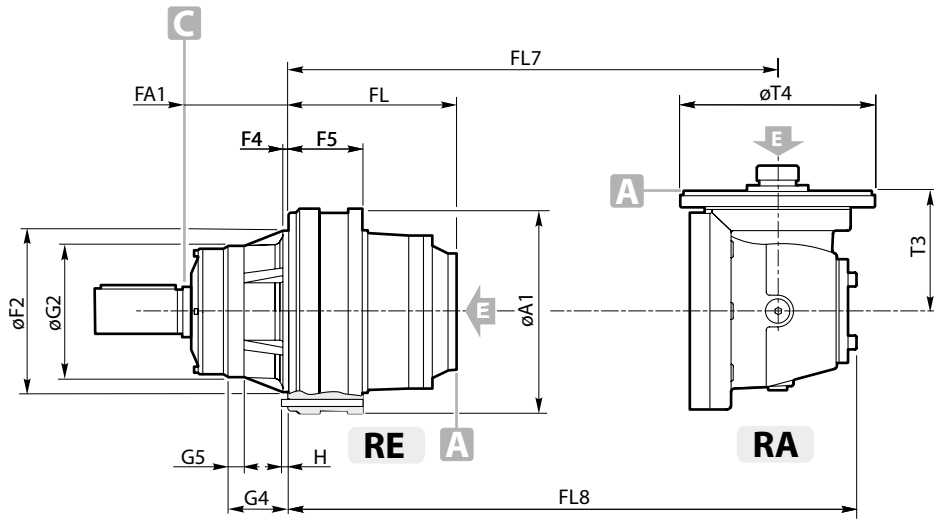
1520 ÷ 3000



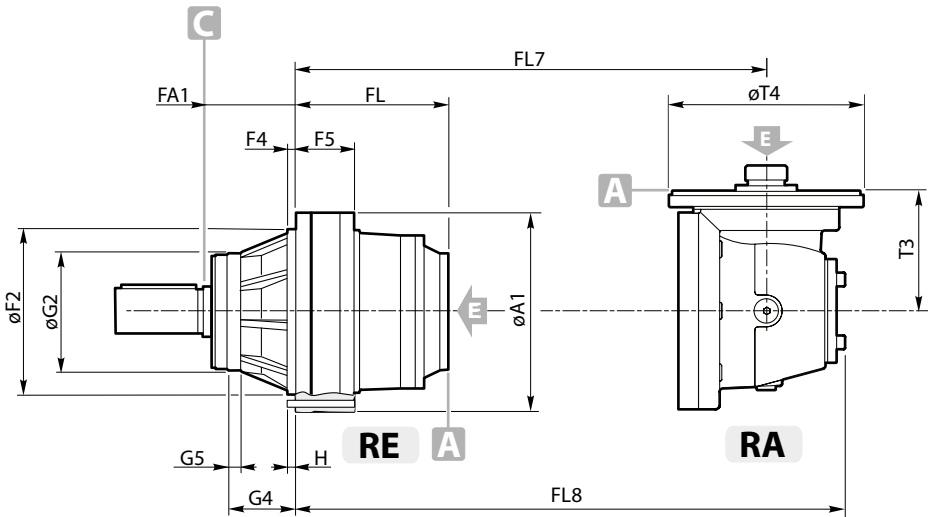
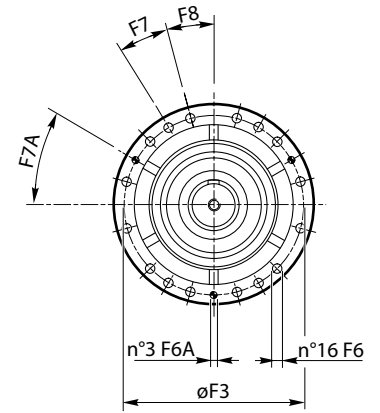
3510 - 4800

| | | RE - RA | | | | | | |
|----|----|---------|-------|-------|--------|--------|--------|--------|
| | | 1520 | 2000 | 2000L | 2520 | 3000 | 3510 | 4800 |
| HC | C1 | 90 h6 | 90 h6 | 90 h6 | 110 h6 | 110 h6 | 120 h7 | 120 h7 |
| | C2 | 160 | 160 | 160 | 200 | 200 | 200 | 200 |
| | C3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | C4 | 25 | 25 | 25 | 28 | 28 | 32 | 32 |
| | C5 | 170 | 170 | 170 | 210 | 210 | 210 | 210 |
| | C6 | 95 | 95 | 95 | 116 | 116 | 127 | 127 |
| | C7 | M24 | M24 | M24 | M24 | M24 | M24 | M24 |
| | C8 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |

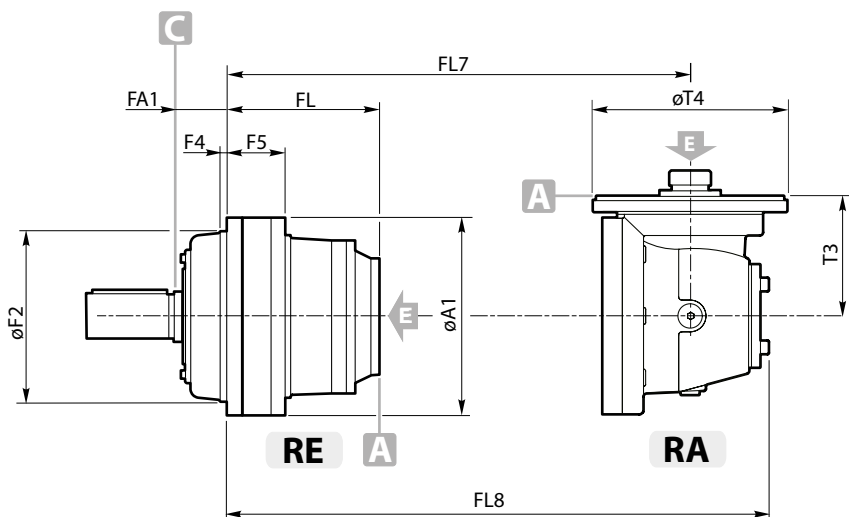
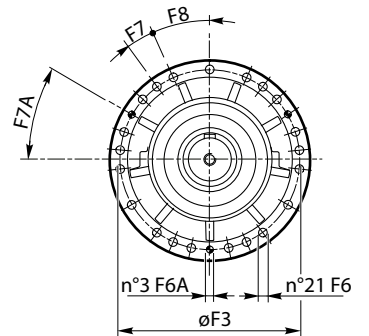
| | | RE - RA | | | | | | |
|-----|---|-------------|--------|--------|--------|--------|--------|--------|
| | | stages | 1520 | 2000 | 2000L | 2520 | 3000 | 3510 |
| A1 | | 350 | 350 | 350 | 409 | 409 | 452 | 452 |
| FA1 | | 169 | 169 | 169 | 180 | 180 | 109 | 109 |
| F2 | | 278 f7 | 278 f7 | 278 f7 | 340 f7 | 340 f7 | 390 f8 | 390 f8 |
| F3 | | 314 | 314 | 314 | 370 | 370 | 424 | 424 |
| F4 | | 10 | 10 | 10 | 17 | 17 | 15 | 15 |
| F5 | | 133 | 133 | 133 | 131 | 131 | 120 | 120 |
| F6 | | Ø16.5 | Ø16.5 | Ø16.5 | Ø17 | Ø17 | Ø17 | Ø17 |
| | | M... - 12.9 | | | | | | |
| F6A | | M16 | M16 | M16 | M16 | M16 | M16 | M16 |
| F7 | | Ø12 | Ø12 | Ø12 | Ø16 | Ø16 | / | / |
| F7A | | 15° | 15° | 15° | 12° | 12° | 20° | 20° |
| F8 | | 30° | 30° | 30° | 30° | 30° | / | / |
| FL | | 15° | 15° | 15° | 24° | 24° | 10° | 10° |
| | 1 | 107 | 107 | 107 | 98 | 98 | 85 | 85 |
| | 2 | 200 | 200 | 200 | 209 | 226 | 277 | 326 |
| | 3 | 264.5 | 258.5 | 264.5 | 276 | 311 | 362 | 419 |
| FL7 | 4 | 307.5 | 311 | 307.5 | 328.5 | 375.5 | 426.5 | 483.5 |
| | 2 | 313 | 313 | 313 | 292 | 292 | 339 | 339 |
| | 3 | 322 | 322 | 322 | 351 | 368 | 419 | 532 |
| FL8 | 4 | 345.5 | 380.5 | 345.5 | 398 | 433 | 484 | 541 |
| | 2 | 441 | 441 | 441 | 420 | 420 | 529 | 529 |
| | 3 | 413 | 413 | 413 | 459 | 476 | 527 | 660 |
| G2 | 4 | 420 | 472 | 420 | 489 | 524 | 575 | 632 |
| | | 225 f7 | 225 f7 | 225 f7 | 245 f7 | 245 f7 | / | / |
| G4 | | 104.5 | 104.5 | 104.5 | 142 | 142 | / | / |
| G5 | | 27.5 | 27.5 | 27.5 | 29 | 29 | / | / |
| H | | 15 | 15 | 15 | 29 | 29 | / | / |
| T3 | 2 | 310 | 310 | 310 | 310 | 310 | 432 | 432 |
| | 3 | 171 | 171 | 171 | 227 | 227 | 227 | 310 |
| | 4 | 113.8 | 171 | 113.8 | 171 | 171 | 171 | 171 |
| T4 | 2 | 293 | 293 | 293 | 293 | 293 | 295 | 295 |
| | 3 | 183 | 183 | 183 | 242 | 242 | 242 | 293 |
| | 4 | 184 | 183 | 184 | 183 | 183 | 183 | 183 |



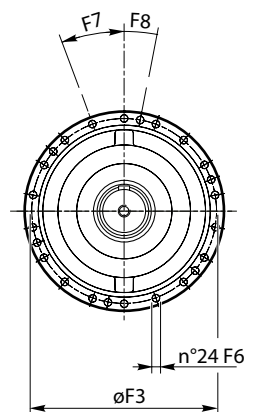
**1520 - 2000
2000L**

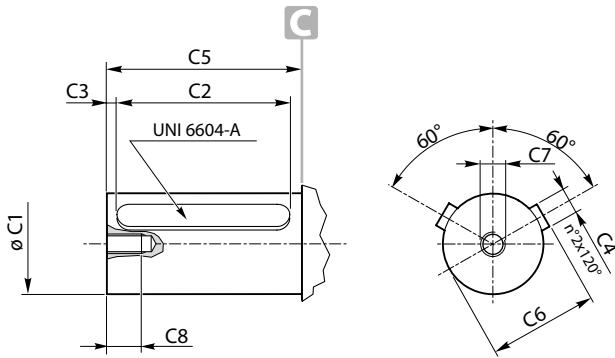


2520 - 3000

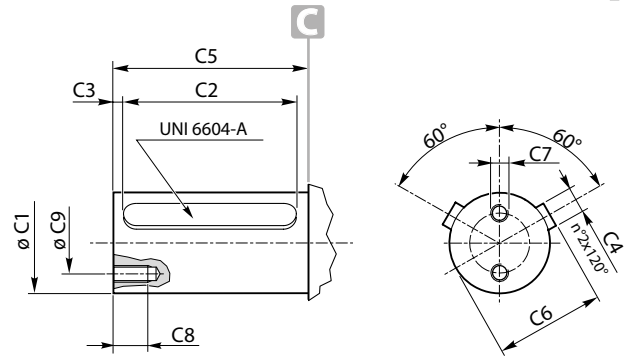


3510 - 4800





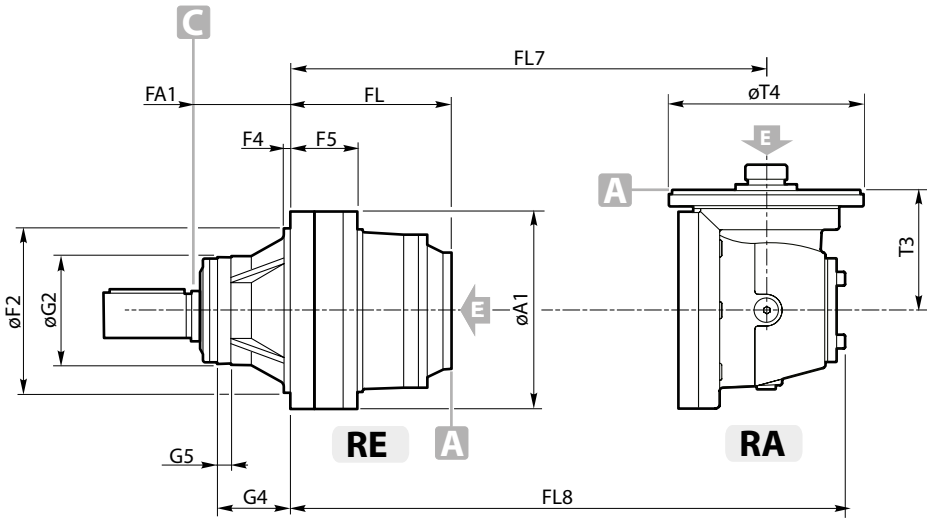
6000 - 8000



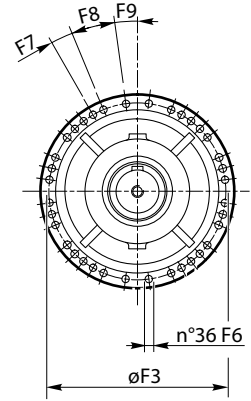
12010 - 16000

| | | RE - RA | | | GB - GBA | |
|-------------------|-----------|---------|--------|--------|----------|--------|
| | | 6000 | | 8000 | 12010 | 16000 |
| | | HC | H6C | HC | HC | HC |
| HC H6C | C1 | 140 h6 | 160 h7 | 160 h7 | 180 h7 | 180 h7 |
| | C2 | 200 | 210 | 210 | 220 | 220 |
| | C3 | 10 | 10 | 10 | 10 | 10 |
| | C4 | 36 | 40 | 40 | 45 | 45 |
| | C5 | 220 | 230 | 230 | 240 | 240 |
| | C6 | 148 | 169 | 169 | 190 | 190 |
| | C7 | M24 | M24 | M24 | M16(2) | M16(2) |
| | C8 | 50 | 50 | 50 | 35 | 35 |
| | C9 | — | — | — | 110 | 110 |

| | | RE - RA | | | GB - GBA | |
|------------|---|-----------|--------|-----------|----------|--------|
| | | 6000 | | 8000 | 12010 | 16000 |
| | | HC | H6C | HC | HC | HC |
| A1 | | 490 | 490 | 490 | 610 | 610 |
| F2 | | 410 f7 | 410 h8 | 410 h8 | 515 h8 | 515 h8 |
| F3 | | 445 | 445 | 445 | 560 | 560 |
| F4 | | 15 | 15 | 15 | 20 | 20 |
| F5 | | 187 | 178.5 | 181.5 | 230 | 230 |
| F6 | | Ø19 | Ø19 | Ø19 | Ø25 | Ø25 |
| | | M. - 12.9 | | M. - 10.9 | | |
| | | M18 | M18 | M18 | M24 | M24 |
| F7 | | 7°30' | 7°30' | 7°30' | 15° | 15° |
| F8 | | 15° | 15° | 15° | 7°30' | 7°30' |
| F9 | | 7°30' | 7°30' | 7°30' | 7°30' | 7°30' |
| FA1 | | 226 | 126 | 126 | 145 | 145 |
| FL | 1 | 145 | 136.5 | 136.5 | 160.5 | 160.5 |
| | 2 | 313.5 | 305 | 390.5 | 410 | 427 |
| | 3 | 406.5 | 398 | 518.5 | 538 | 668 |
| | 4 | 465 | 456.5 | 603.5 | 623 | 761 |
| | 5 | — | — | 668 | 687.5 | 825.5 |
| FL7 | 2 | 399 | 390.5 | 390.5 | — | — |
| | 3 | 519.5 | 511 | 584.5 | 604 | 681 |
| | 4 | 528.5 | 520 | 660.5 | 680 | 874 |
| | 5 | — | — | — | 745 | 883 |
| FL8 | 2 | 589 | 580.5 | 580.5 | — | — |
| | 3 | 647.5 | 639 | 712.5 | 732 | 871 |
| | 4 | 619.5 | 611 | 768.5 | 788 | 1002 |
| | 5 | — | — | — | 836 | 974 |
| G2 | | 260 f7 | — | — | — | — |
| G4 | | 181 | — | — | — | — |
| G5 | | 33 | — | — | — | — |
| T3 | 2 | 432 | 432 | 432 | — | — |
| | 3 | 310 | 310 | 310 | 310 | 432 |
| | 4 | 171 | 171 | 227 | 227 | 310 |
| | 5 | — | — | — | 171 | 171 |
| | 5 | — | — | — | — | — |
| T4 | 2 | 295 | 295 | 295 | — | — |
| | 3 | 293 | 293 | 293 | 293 | 295 |
| | 4 | 183 | 183 | 242 | 242 | 293 |
| | 5 | — | — | — | 183 | 183 |
| | 5 | — | — | — | — | — |

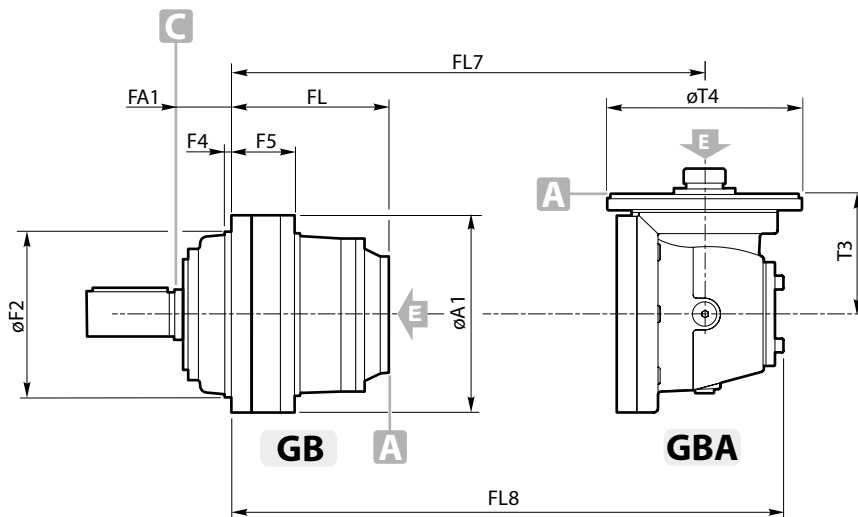
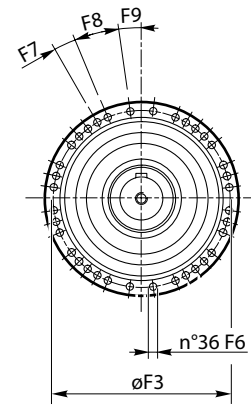
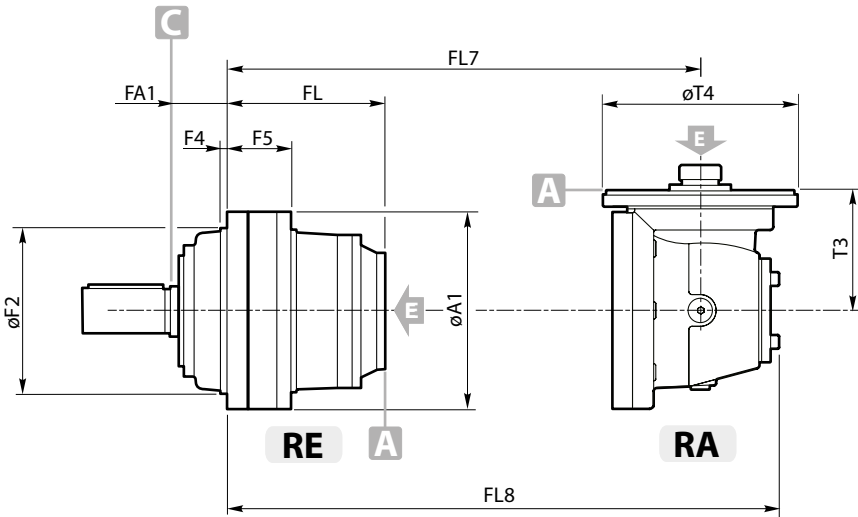


HC 6000

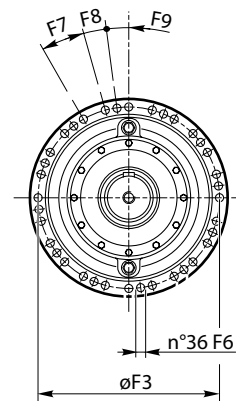


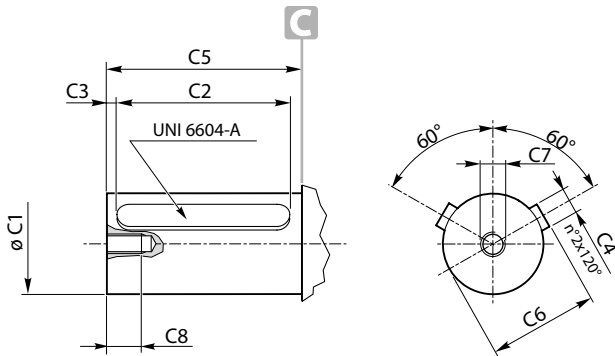
H6C 6000

HC 8000

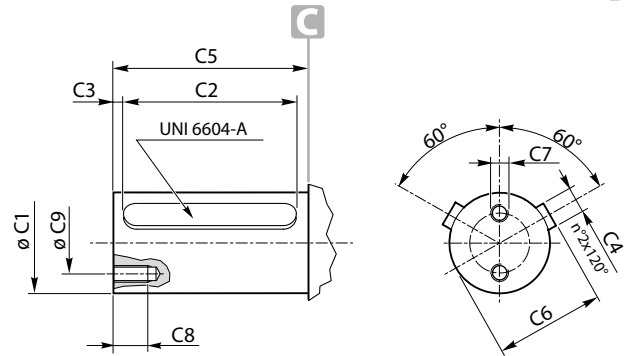


HC 12010 - 16000





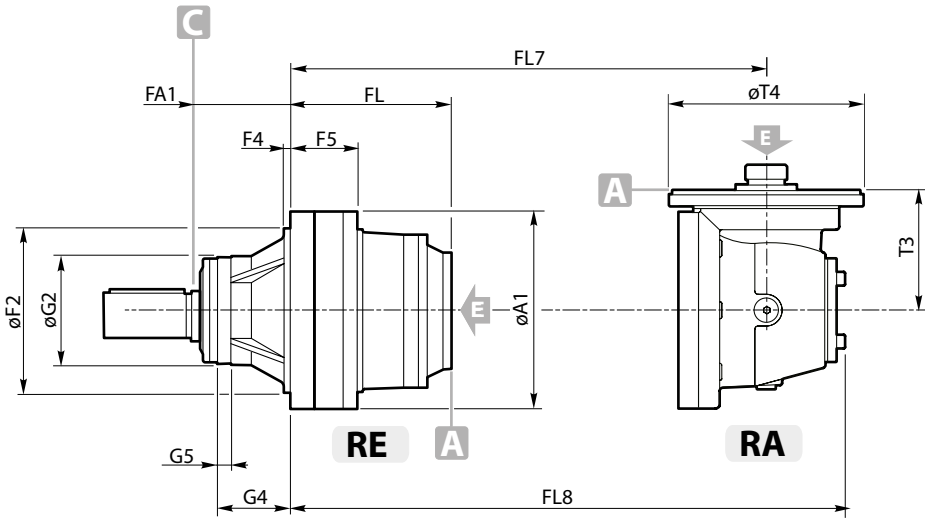
6000L - 8000L



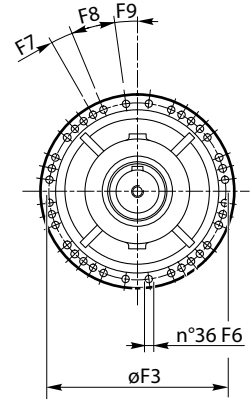
12010L - 16000L

| | | RE - RA | | | GB - GBA | |
|-------------------|-----------|---------|--------|--------|----------|--------|
| | | 6000L | | 8000L | 12010L | 16000L |
| | | HC | H6C | HC | HC | HC |
| HC H6C | C1 | 140 h6 | 160 h7 | 160 h7 | 180 h7 | 180 h7 |
| | C2 | 200 | 210 | 210 | 220 | 220 |
| | C3 | 10 | 10 | 10 | 10 | 10 |
| | C4 | 36 | 40 | 40 | 45 | 45 |
| | C5 | 220 | 230 | 230 | 240 | 240 |
| | C6 | 148 | 169 | 169 | 190 | 190 |
| | C7 | M24 | M24 | M24 | M16(2) | M16(2) |
| | C8 | 50 | 50 | 50 | 35 | 35 |
| | C9 | — | — | — | 110 | 110 |

| | stages | RE - RA | | | GB - GBA | |
|------------|--------|-------------|--------|-------------|----------|--------|
| | | 6000L | | 8000L | 12010L | 16000L |
| | | HS | H6S | HS | HS | HS |
| A1 | | 490 | 490 | 490 | 610 | 610 |
| F2 | | 410 f7 | 410 h8 | 410 h8 | 515 h8 | 515 h8 |
| F3 | | 445 | 445 | 445 | 560 | 560 |
| F4 | | 15 | 15 | 15 | 20 | 20 |
| F5 | | 187 | 178.5 | 181.5 | 230 | 230 |
| F6 | | Ø19 | Ø19 | Ø19 | Ø25 | Ø25 |
| | | M... - 12.9 | | M... - 10.9 | | |
| F7 | | M18 | M18 | M18 | M24 | M24 |
| F8 | | 7°30' | 7°30' | 7°30' | 15° | 15° |
| F9 | | 15° | 15° | 15° | 7°30' | 7°30' |
| F9 | | 7°30' | 7°30' | 7°30' | 7°30' | 7°30' |
| FA1 | | 226 | 126 | 126 | 145 | 145 |
| FL | 1 | 145 | 136.5 | 136.5 | 160.5 | 160.5 |
| | 2 | 313.5 | 305 | 390.5 | 410 | 427 |
| | 3 | 406.5 | 398 | 501.5 | 521 | 619 |
| | 4 | 471 | 462.5 | 568.5 | 588 | 704 |
| | 5 | — | — | 621 | 640.5 | 768.5 |
| FL7 | 2 | 399 | 390.5 | 390.5 | — | — |
| | 3 | 519.5 | 511 | 584.5 | 604 | 681 |
| | 4 | 528.5 | 520 | 643.5 | 663 | 761 |
| | 5 | — | — | — | 710 | 826 |
| FL8 | 2 | 589 | 580.5 | 580.5 | — | — |
| | 3 | 647.5 | 639 | 712.5 | 732 | 871 |
| | 4 | 619.5 | 611 | 751.5 | 771 | 869 |
| | 5 | — | — | — | 801 | 917 |
| G2 | | 260 f7 | — | — | — | — |
| G4 | | 181 | — | — | — | — |
| G5 | | 33 | — | — | — | — |
| T3 | 2 | 432 | 432 | 432 | — | — |
| | 3 | 310 | 310 | 310 | 310 | 432 |
| | 4 | 171 | 171 | 227 | 227 | 227 |
| | 5 | — | — | — | 171 | 171 |
| T4 | 2 | 295 | 295 | 295 | — | — |
| | 3 | 293 | 293 | 293 | 293 | 295 |
| | 4 | 183 | 183 | 242 | 242 | 242 |
| | 5 | — | — | — | 183 | 183 |

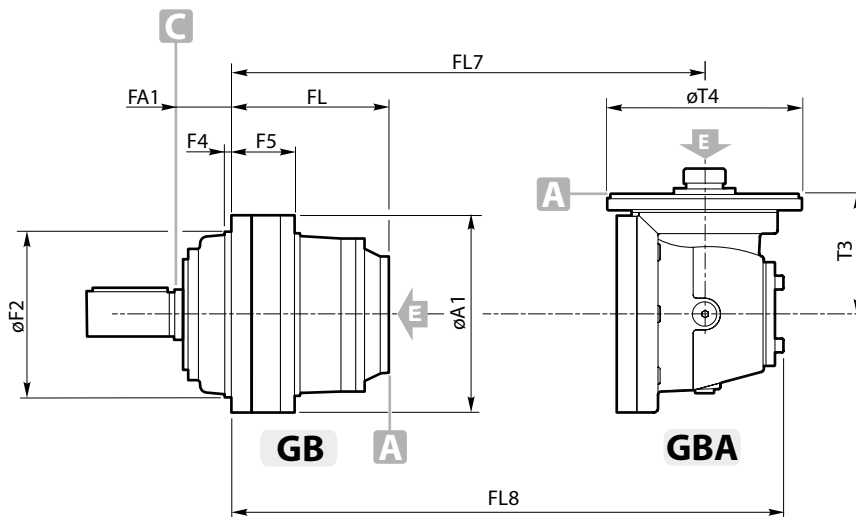
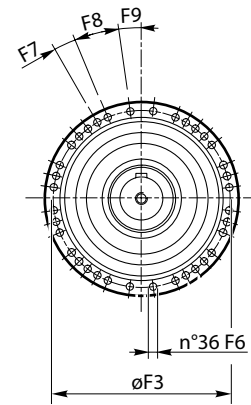
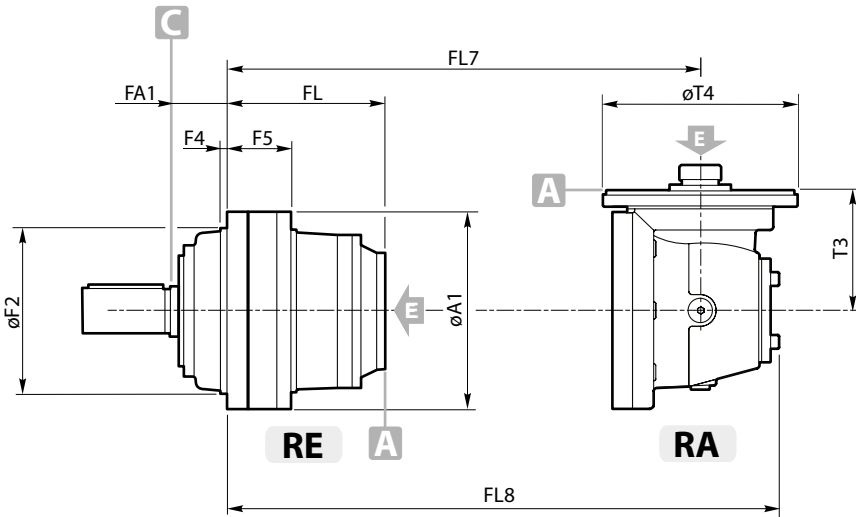


HC 6000L

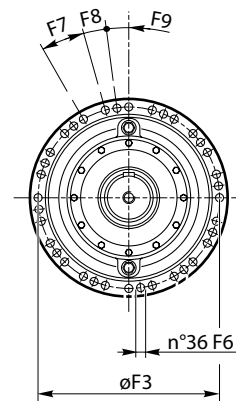


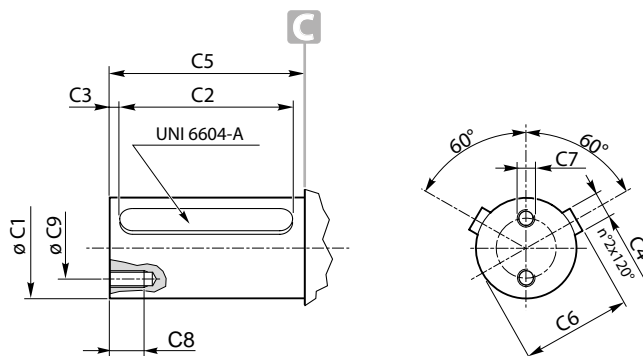
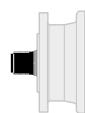
H6C 6000L

HC 8000L



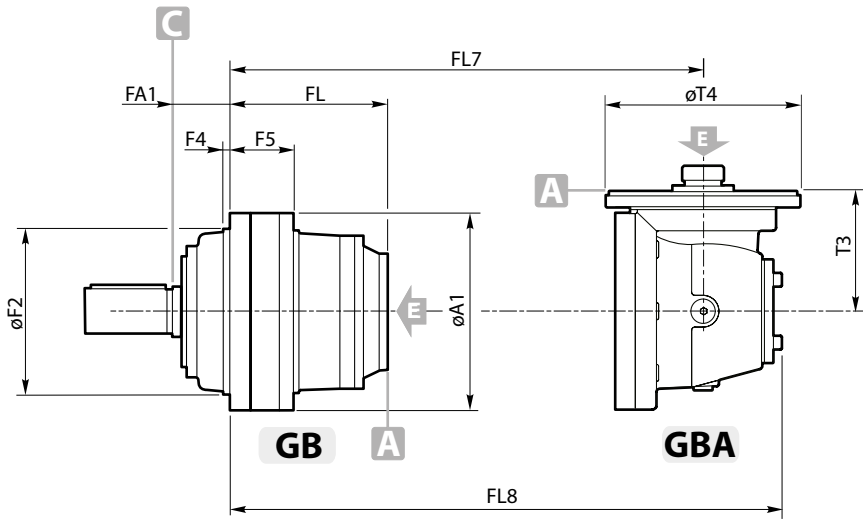
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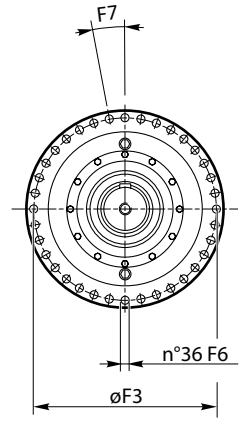


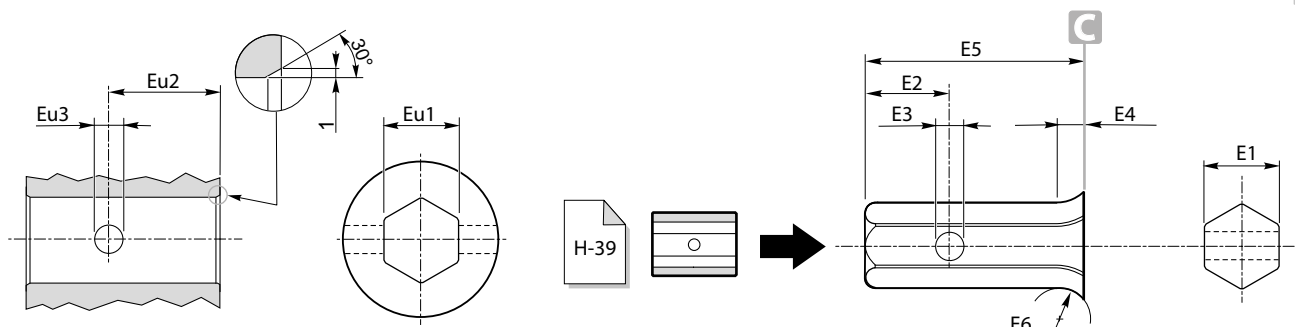
| TC | GB - GBA | | | | |
|----|----------|--------|--------|--------|--------|
| | 21000 | 26000 | 31000 | 40000 | 45000 |
| C1 | 230 h7 | 230 h7 | 290 h7 | 290 h7 | 290 h7 |
| C2 | 280 | 280 | 400 | 400 | 400 |
| C3 | 10 | 10 | 12.5 | 12.5 | 12.5 |
| C4 | 50 | 50 | 63 | 63 | 63 |
| C5 | 300 | 300 | 425 | 425 | 425 |
| C6 | 241 | 241 | 302 | 302 | 302 |
| C7 | M24(2) | M24(2) | M24(2) | M24(2) | M24(2) |
| C8 | 50 | 50 | 50 | 50 | 50 |
| C9 | 150 | 150 | 200 | 200 | 200 |

| | stages | GB - GBA | | | | |
|-----|--------|-------------|--------|--------|--------|--------|
| | | 21000 | 26000 | 31000 | 40000 | 45000 |
| A1 | | 710 | 710 | 870 | 870 | 870 |
| F2 | | 600 h8 | 600 h8 | 760 h8 | 760 h8 | 760 h8 |
| F3 | | 660 | 660 | 810 | 810 | 810 |
| F4 | | 23.5 | 23.5 | 35 | 35 | 35 |
| F5 | | 196 | 216 | 250 | 290 | 290 |
| F6 | | Ø28 | Ø28 | Ø32 | Ø32 | Ø32 |
| | | M... - 10.9 | | | | |
| | | M27 | M27 | M30 | M30 | M30 |
| F7 | | 10° | 10° | 10° | 10° | 10° |
| FA1 | | 180 | 180 | 225 | 225 | 225 |
| FL | 1 | 138 | 158 | 180 | 220 | 220 |
| | 2 | 443 | 463 | 588.5 | 628.5 | 628.5 |
| | 3 | 611.5 | 717 | 838 | 878 | 895 |
| | 4 | 704.5 | 845 | 966 | 1006 | 1136 |
| | 5 | 763 | 930 | 1051 | 1091 | 1229 |
| FL7 | 3 | 697 | 717 | — | — | — |
| | 4 | 817.5 | 911 | 1032 | 1072 | 1149 |
| | 5 | 826.5 | 987 | 1108 | 1148 | 1342 |
| FL8 | 3 | 887 | 907 | — | — | — |
| | 4 | 945.5 | 1039 | 1160 | 1200 | 1339 |
| | 5 | 917.5 | 1095 | 1216 | 1256 | 1470 |
| T3 | 3 | 432 | 432 | — | — | — |
| | 4 | 310 | 310 | 310 | 310 | 432 |
| | 5 | 171 | 227 | 227 | 227 | 310 |
| T4 | 3 | 295 | 295 | — | — | — |
| | 4 | 293 | 293 | 293 | 293 | 295 |
| | 5 | 183 | 242 | 242 | 242 | 293 |



21000 ÷ 45000



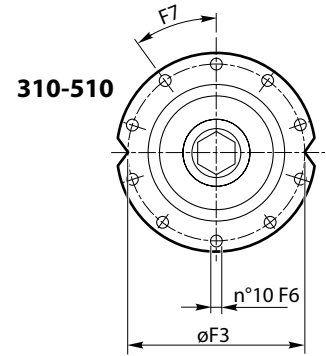
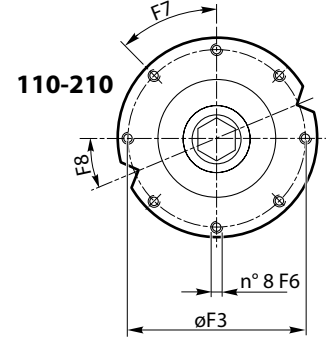
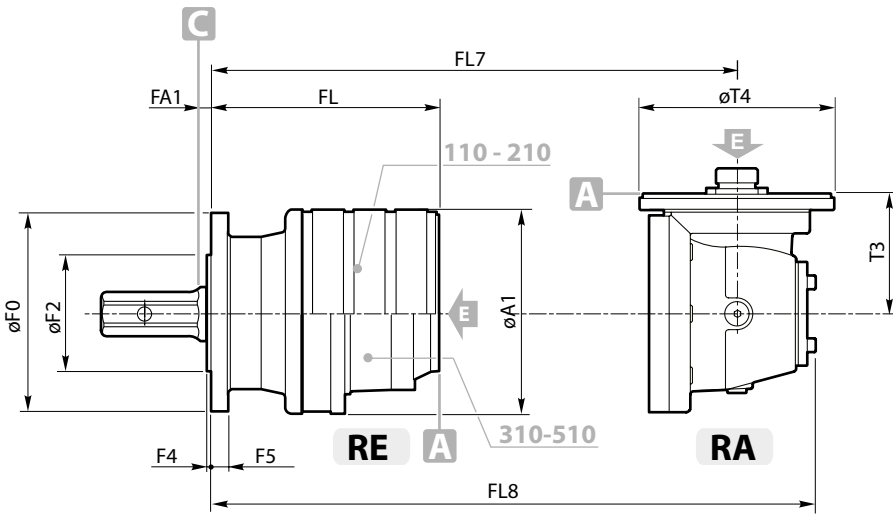


| | | RE - RA | | | | |
|------------|------------|---------|------|------|------|------|
| | | 110 | 210 | 310 | 510 | 610 |
| NE | E1 | 50 | 50 | 50 | 50 | 50 |
| | E2 | 54 | 54 | 54 | 54 | 54 |
| | E3 | Ø 18 | Ø 18 | Ø 18 | Ø 18 | Ø 18 |
| | E4 | 6.5 | 6.5 | 13 | 13 | 13 |
| | E5 | 121 | 121 | 132 | 132 | 132 |
| | E6 | r 24 | r 24 | r 24 | r 24 | r 24 |
| | Eu1 | 50 | 50 | 50 | 50 | 50 |
| Eu2 | 54 | 54 | 60 | 60 | 60 | |
| Eu3 | Ø 18 | Ø 18 | Ø 18 | Ø 18 | Ø 18 | |

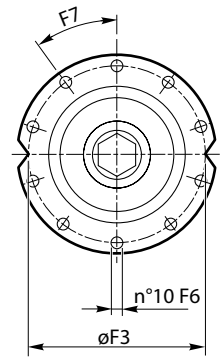
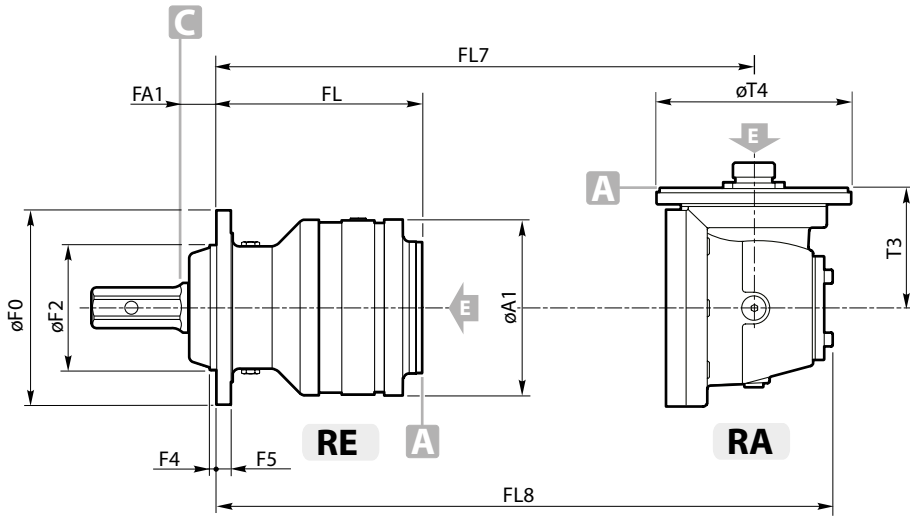
| | | RE - RA | | | | |
|------------|--------|-------------|--------|--------|--------|--------|
| | stages | 110 | 210 | 310 | 510 | 610 |
| A1 | | 186 | 186 | 244 | 244 | 244 |
| F0 | | 185 | 185 | 222 | 222 | 222 |
| F2 | | 110 h7 | 110 h7 | 150 f7 | 150 f7 | 150 f7 |
| F3 | | 165 | 165 | 195 | 195 | 195 |
| F4 | | 3 | 3 | 13.5 | 13.5 | 13.5 |
| F5 | | 14 | 14 | 16 | 16 | 16 |
| F6 | | 10.5 | 10.5 | 12.5 | 12.5 | 12.5 |
| | | M... - 12.9 | | | | |
| | | M10 | M10 | M12 | M12 | M12 |
| F7 | | 45° | 45° | 36° | 36° | 36° |
| F8 | | 22.5° | 22.5° | — | — | — |
| FA1 | | 7 | 7 | 22 | 22 | 22 |
| FL | 1 | 97 | 109 | 134 | 152 | 152 |
| | 2 | 140 | 152 | 186.5 | 216.5 | 210.5 |
| | 3 | 183 | 195 | 229.5 | 259.5 | 263 |
| | 4 | 226 | 238 | 272.5 | 302.5 | 306 |
| FL7 | 2 | 178 | 190 | 256 | 274 | 274 |
| | 3 | 221 | 233 | 267.5 | 297.5 | 332.5 |
| FL8 | 4 | 264 | 276 | 310.5 | 340.5 | 344 |
| | 2 | 252.5 | 264.5 | 347 | 365 | 365 |
| FL8 | 3 | 295.5 | 307.5 | 342 | 372 | 423.5 |
| | 4 | 338.5 | 350.5 | 385 | 415 | 418.5 |
| T3 | 2 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 |
| | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | 184 | 184 | 183 | 183 | 183 |
| | 3 | 184 | 184 | 184 | 184 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 |

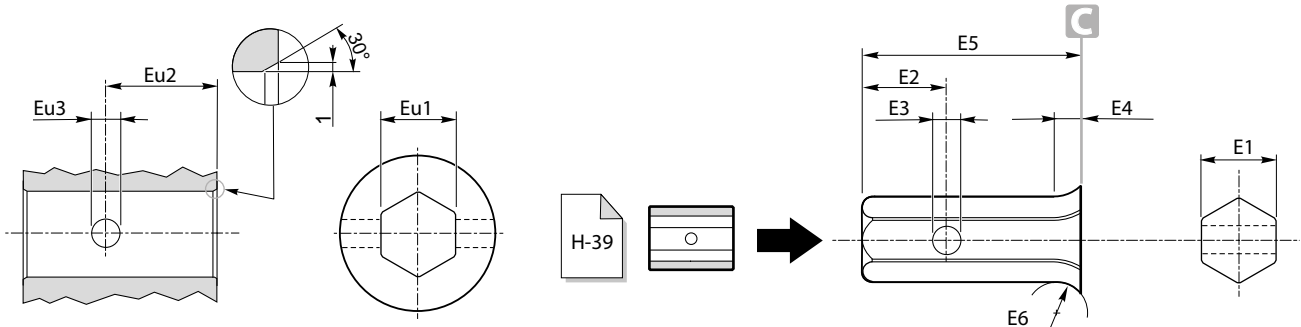


**110 - 210
310 - 510**



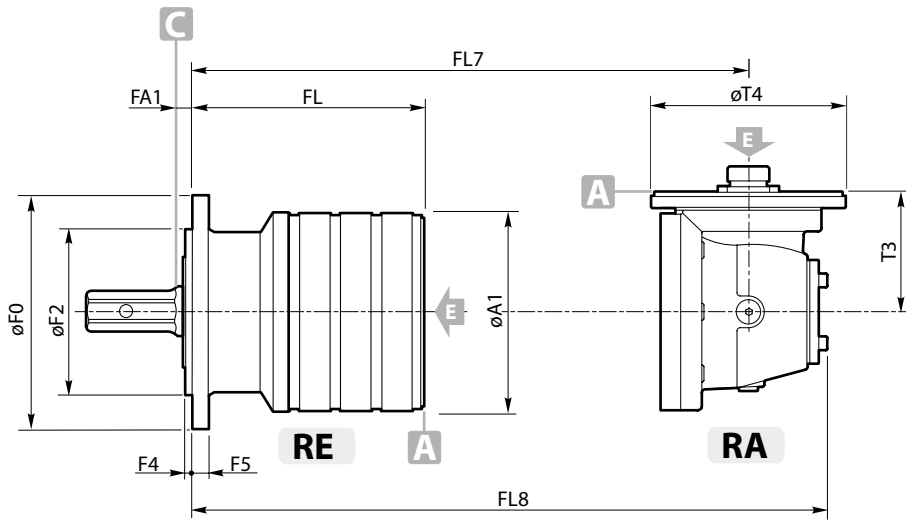
610



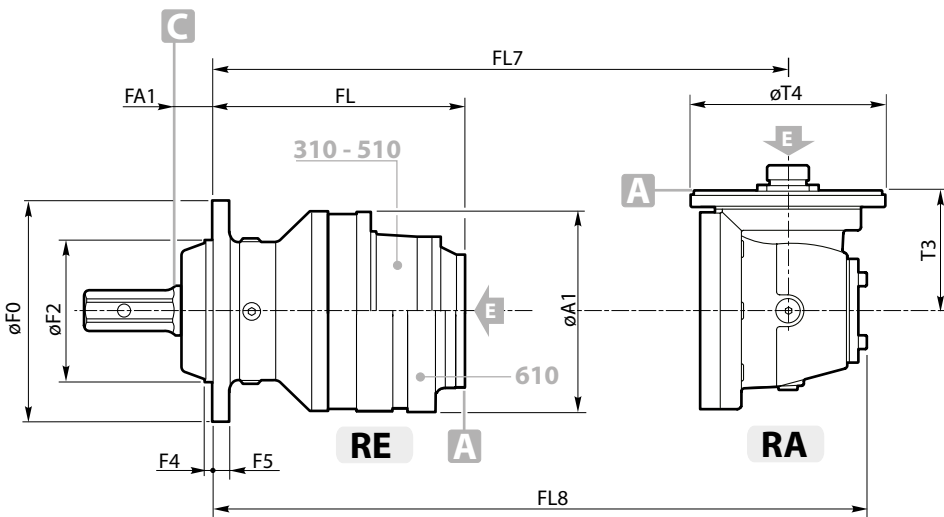
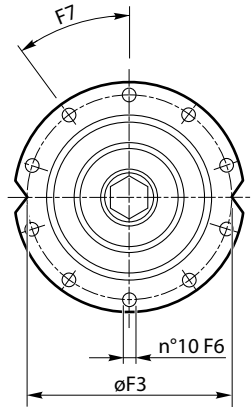


| | | RE - RA | | | | | |
|------------|------------|---------|------|-------|------|------|------|
| | | 110 | 210 | 240 | 310 | 510 | 610 |
| TE | E1 | 50 | 50 | 50 | 70 | 70 | 70 |
| | E2 | 54 | 54 | 54 | 65 | 65 | 65 |
| | E3 | Ø 18 | Ø 18 | Ø 18 | Ø 22 | Ø 22 | Ø 22 |
| | E4 | 9 | 9 | 15 | 15 | 15 | 15 |
| | E5 | 121 | 121 | 119.5 | 138 | 138 | 138 |
| | E6 | r 15 | r 15 | r 24 | r 30 | r 30 | r 30 |
| T1E | Eu1 | 50 | 50 | 50 | 70 | 70 | 70 |
| | Eu2 | 54 | 54 | 54 | 50 | 50 | 50 |
| | Eu3 | Ø 18 | Ø 18 | Ø 18 | Ø 22 | Ø 22 | Ø 22 |

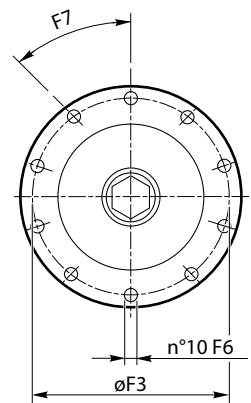
| | | RE - RA | | | | | | | | | | | | | | | |
|------------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | stages | 110 | | | | 210 | | | | 240 | | 310 | | 510 | | 610 | |
| | | TE | T1E | TRE | TR1E | TE | T1E | TRE | TR1E | TE | TRE | TE | TLE | TE | TLE | TE | TLE |
| A1 | | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 244 | 244 | 244 | 244 | 244 | 244 |
| F0 | | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 219 | 272 | 272 | 272 | 272 | 272 | 272 |
| F2 | | 155 h7 | 150 f7 | 155 h7 | 150 f7 | 155 h7 | 150 f7 | 155 h7 | 150 f7 | 150 f7 | 155 f7 | 175 h8 | 175 h8 | 175 h8 | 175 h8 | 175 h8 | 175 h8 |
| F3 | | 194 | 195 | 194 | 195 | 194 | 195 | 194 | 195 | 195 | 194 | 245 | 245 | 245 | 245 | 245 | 245 |
| F4 | | 7 | 7 | 10 | 10 | 7 | 7 | 10 | 10 | 7 | 10 | 12 | 9 | 12 | 9 | 12 | 9 |
| F5 | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 | 20 |
| F6 | | Ø11 | Ø13 | Ø11 | Ø13 | Ø11 | Ø13 | Ø11 | Ø13 | Ø12.5 | Ø11 | Ø12.5 | Ø12.5 | Ø12.5 | Ø12.5 | Ø12.5 | Ø12.5 |
| | | M. - 12.9 | | | | | | | | | | | | | | | |
| | | M10 | M12 | M10 | M12 | M10 | M12 | M10 | M12 | M12 | M10 | M12 | M12 | M12 | M12 | M12 | M12 |
| F7 | | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° | 36° |
| FA1 | | 17 | 17 | 34 | 34 | 17 | 17 | 34 | 34 | 17.5 | 34.5 | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 |
| FL | 1 | 102 | 102 | 85 | 85 | 114 | 114 | 97 | 97 | 114 | 97 | 157 | 157 | 175 | 175 | 175 | 175 |
| | 2 | 145 | 145 | 128 | 128 | 157 | 157 | 140 | 140 | 157 | 140 | 209.5 | 209.5 | 239.5 | 239.5 | 233.5 | 233.5 |
| | 3 | 188 | 188 | 171 | 171 | 200 | 200 | 183 | 183 | 200 | 183 | 252.5 | 252.5 | 282.5 | 282.5 | 286 | 286 |
| | 4 | 231 | 231 | 214 | 214 | 243 | 243 | 226 | 226 | 243 | 226 | 295.5 | 295.5 | 325.5 | 325.5 | 329 | 329 |
| FL7 | 2 | 183 | 183 | 166 | 166 | 195 | 195 | 178 | 178 | 195 | 178 | 279 | 279 | 297 | 297 | 297 | 297 |
| | 3 | 226 | 226 | 209 | 209 | 238 | 238 | 221 | 221 | 238 | 221 | 290.5 | 290.5 | 320.5 | 320.5 | 355.5 | 355.5 |
| | 4 | 269 | 269 | 252 | 252 | 281 | 281 | 264 | 264 | 281 | 264 | 333.5 | 333.5 | 363.5 | 363.5 | 367 | 367 |
| FL8 | 2 | 257.5 | 257.5 | 240.5 | 240.5 | 269.5 | 269.5 | 252.5 | 252.5 | 269.5 | 252.5 | 370 | 370 | 388 | 388 | 388 | 388 |
| | 3 | 300.5 | 300.5 | 283.5 | 283.5 | 312.5 | 312.5 | 295.5 | 295.5 | 312.5 | 295.5 | 365 | 365 | 395 | 395 | 446.5 | 446.5 |
| | 4 | 343.5 | 343.5 | 326.5 | 326.5 | 355.5 | 355.5 | 338.5 | 338.5 | 355.5 | 338.5 | 408 | 408 | 438 | 438 | 441.5 | 441.5 |
| T3 | 2 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 |
| | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 183 | 183 | 183 | 183 | 183 | 183 |
| | 3 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |

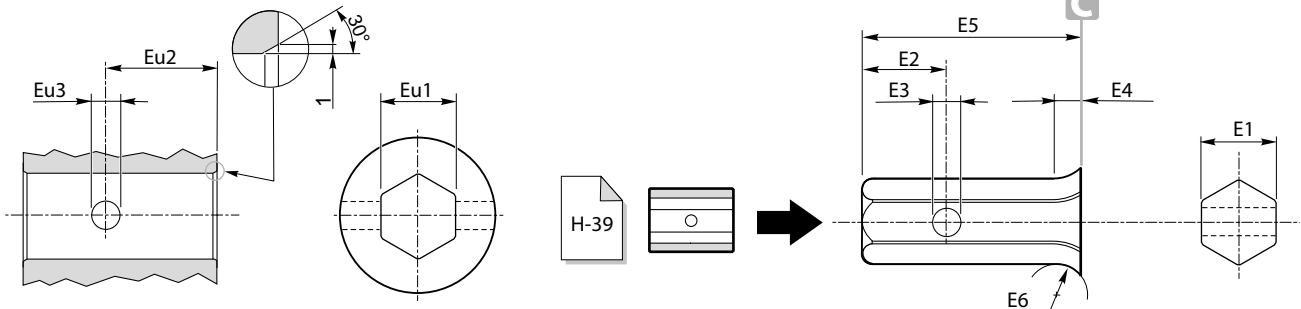


110 ÷ 240



**310 - 510
610**



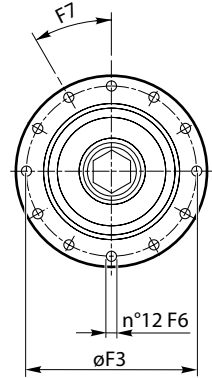
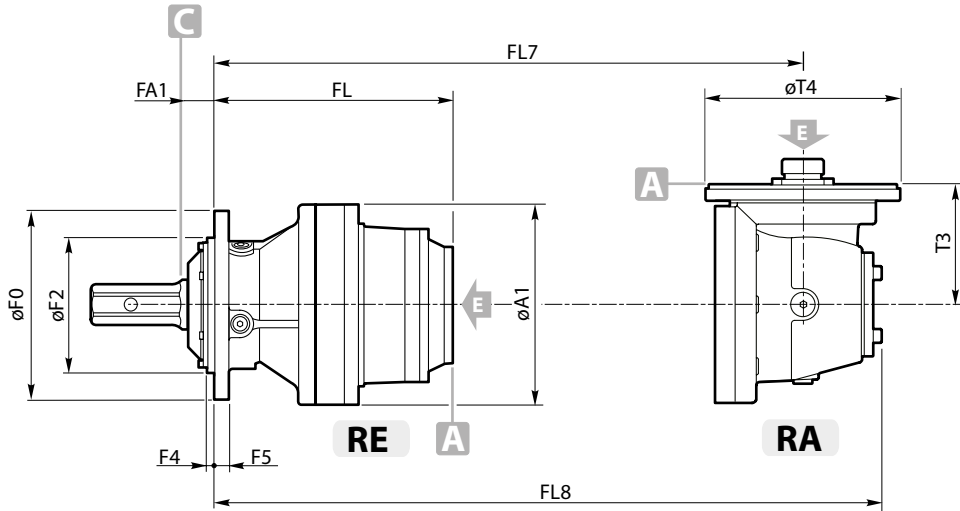


| | | RE - RA | | | | |
|----|------------|---------|-------|-------|-------|-------|
| | | 810 | 1020 | 1520 | 2000 | 2000L |
| TE | E1 | 70 | 70 | 70 | 70 | 70 |
| | E2 | 40 | 65 | 65 | 65 | 65 |
| | E3 | Ø 22 | Ø 22 | Ø 22 | Ø 22 | Ø 22 |
| | E4 | 3 | 25 | 25 | 25 | 25 |
| | E5 | 141 | 142.5 | 142.5 | 142.5 | 142.5 |
| | E6 | r 30 | r 30 | r 30 | r 30 | r 30 |
| | Eu1 | 70 | 70 | 70 | 70 | 70 |
| | Eu2 | 95 | 50 | 50 | 50 | 50 |
| | Eu3 | Ø 22 | Ø 22 | Ø 22 | Ø 22 | Ø 22 |

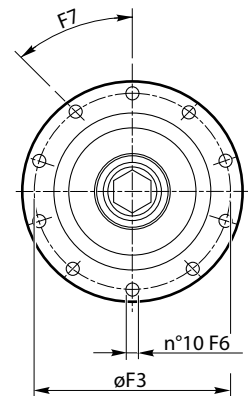
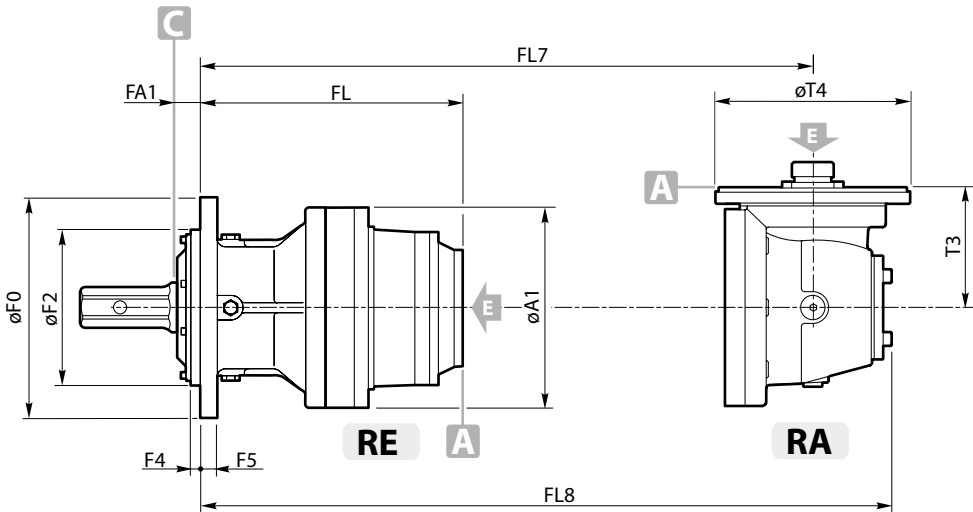
| | | RE - RA | | | | |
|------------|--------|-------------|--------|--------|--------|--------|
| | stages | 810 | 1020 | 1520 | 2000 | 2000L |
| A1 | | 295 | 295 | 350 | 350 | 350 |
| F0 | | 280 | 325 | 325 | 325 | 325 |
| F2 | | 200 f7 | 230 f7 | 230 f7 | 230 f7 | 230 f7 |
| F3 | | 250 | 295 | 295 | 295 | 295 |
| F4 | | 10.5 | 15 | 15 | 15 | 15 |
| F5 | | 22 | 25 | 28 | 28 | 28 |
| F6 | | Ø15 | Ø17 | Ø17 | Ø17 | Ø17 |
| | | M... - 12.9 | | | | |
| | | M14 | M16 | M16 | M16 | M16 |
| F7 | | 30° | 36° | 36° | 36° | 36° |
| FA1 | | 41 | 43.5 | 43.5 | 43.5 | 43.5 |
| FL | 1 | 185 | 237 | 240 | 240 | 240 |
| | 2 | 252 | 322 | 333 | 333 | 333 |
| | 3 | 304.5 | 386.5 | 397.5 | 391.5 | 397.5 |
| | 4 | 347.5 | 429.5 | 440 | 444 | 440 |
| FL7 | 2 | 326.5 | 379 | 446 | 446 | 446 |
| | 3 | 374 | 444 | 455 | 455 | 455 |
| FL8 | 4 | 385.5 | 467.5 | 478.5 | 513.5 | 478.5 |
| | 2 | 435 | 487 | 574 | 574 | 574 |
| | 3 | 465 | 535 | 546 | 546 | 546 |
| T3 | 4 | 460 | 542 | 553 | 604.5 | 553 |
| | 2 | 277 | 277 | 310 | 310 | 310 |
| | 3 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 |
| T4 | 4 | 113.8 | 113.8 | 113.8 | 171.5 | 113.8 |
| | 2 | 242 | 242 | 293 | 293 | 293 |
| | 3 | 183 | 183 | 183 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 183 | 184 |

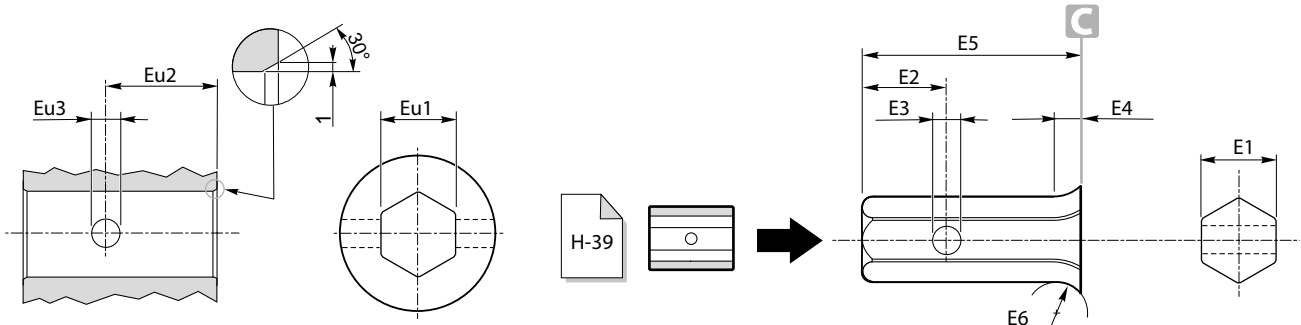


810



**1020 - 1520
2000 - 2000L**



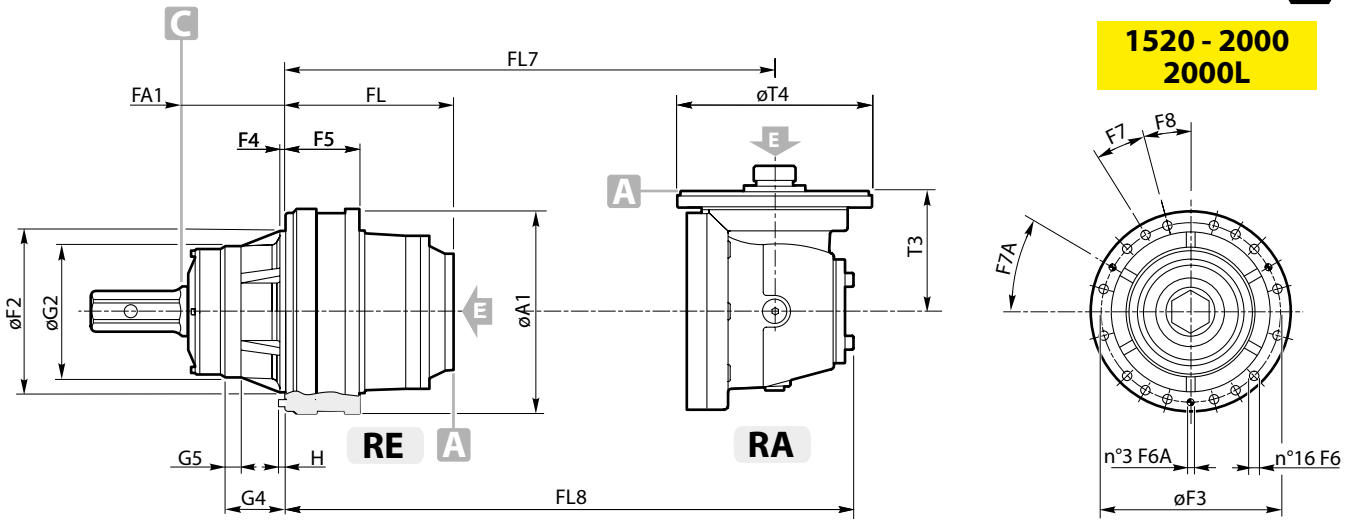


| | | RE - RA | | | | |
|------------|------------|---------|-------|-------|-------|-------|
| | | 1520 | 2000 | 2000L | 2520 | 3000 |
| HE | E1 | 70 | 70 | 70 | 100 | 100 |
| | E2 | 65 | 65 | 65 | 170.5 | 170.5 |
| | E3 | Ø 22 | Ø 22 | Ø 22 | Ø 32 | Ø 32 |
| | E4 | 25 | 25 | 25 | 20 | 20 |
| | E5 | 142.5 | 142.5 | 142.5 | 160 | 160 |
| | E6 | r 30 | r 30 | r 30 | r 35 | r 35 |
| | Eu1 | 70 | 70 | 70 | 100 | 100 |
| Eu2 | 50 | 50 | 50 | 65 | 65 | |
| Eu3 | Ø 22 | Ø 22 | Ø 22 | Ø 32 | Ø 32 | |

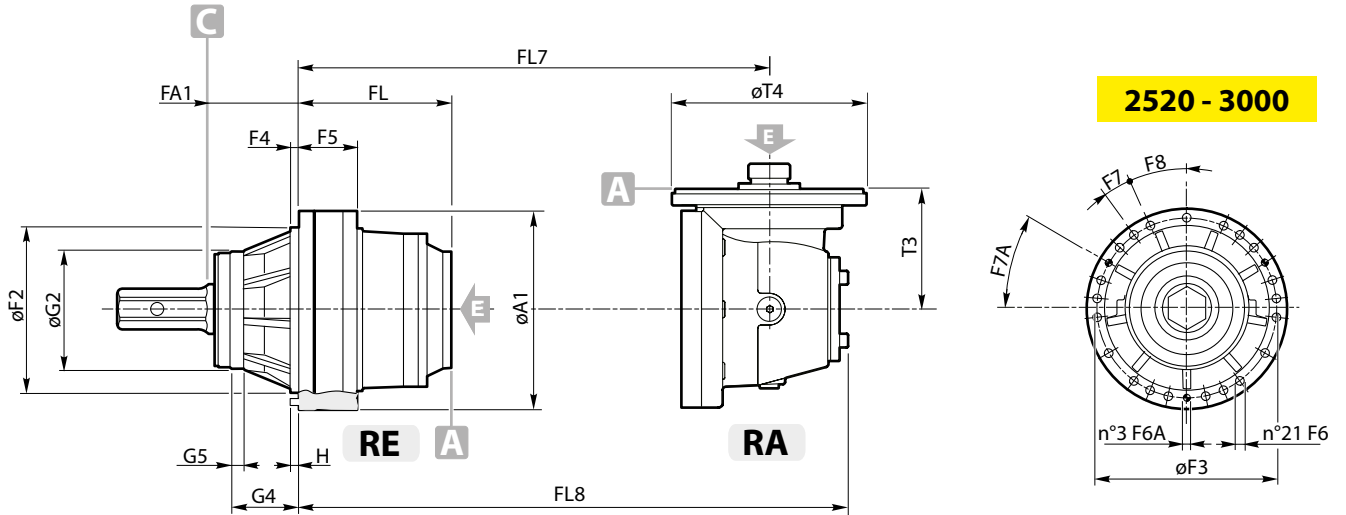
| | | RE - RA | | | | |
|------------|--------|-------------|--------|--------|--------|--------|
| | stages | 1520 | 2000 | 2000L | 2520 | 3000 |
| A1 | | 350 | 350 | 350 | 409 | 409 |
| FA1 | | 176.5 | 176.5 | 176.5 | 210 | 210 |
| F2 | | 278 f7 | 278 f7 | 278 f7 | 340 f7 | 340 f7 |
| F3 | | 314 | 314 | 314 | 370 | 370 |
| F4 | | 10 | 10 | 10 | 17 | 17 |
| F5 | | 133 | 133 | 133 | 131 | 131 |
| F6 | | Ø16.5 | Ø16.5 | Ø16.5 | Ø17 | Ø17 |
| | | M... - 12.9 | | | | |
| | | M16 | M16 | M16 | M16 | M16 |
| F6A | | Ø12 | Ø12 | Ø12 | Ø16 | Ø16 |
| F7 | | 15° | 15° | 15° | 12° | 12° |
| F7A | | 30° | 30° | 30° | 30° | 30° |
| F8 | | 15° | 15° | 15° | 24° | 24° |
| FL | 1 | 107 | 107 | 107 | 98 | 98 |
| | 2 | 200 | 200 | 200 | 209 | 226 |
| | 3 | 264.5 | 258.5 | 264.5 | 276 | 311 |
| | 4 | 307.5 | 311 | 307.5 | 328.5 | 375.5 |
| FL7 | 2 | 313 | 313 | 313 | 292 | 292 |
| | 3 | 322 | 322 | 322 | 351 | 368 |
| FL8 | 4 | 345.5 | 380.5 | 345.5 | 398 | 433 |
| | 2 | 441 | 441 | 441 | 420 | 420 |
| | 3 | 413 | 413 | 413 | 459 | 476 |
| | 4 | 420 | 472 | 420 | 489 | 524 |
| G2 | | 225 f7 | 225 f7 | 225 f7 | 245 f7 | 245 f7 |
| G4 | | 104.5 | 104.5 | 104.5 | 142 | 142 |
| G5 | | 27.5 | 27.5 | 27.5 | 29 | 29 |
| H | | 15 | 15 | 15 | 29 | 29 |
| T3 | 2 | 310 | 310 | 310 | 310 | 310 |
| | 3 | 171 | 171 | 171 | 227 | 227 |
| | 4 | 113.8 | 171 | 113.8 | 171 | 171 |
| T4 | 2 | 293 | 293 | 293 | 293 | 293 |
| | 3 | 183 | 183 | 183 | 242 | 242 |
| | 4 | 184 | 183 | 184 | 183 | 183 |

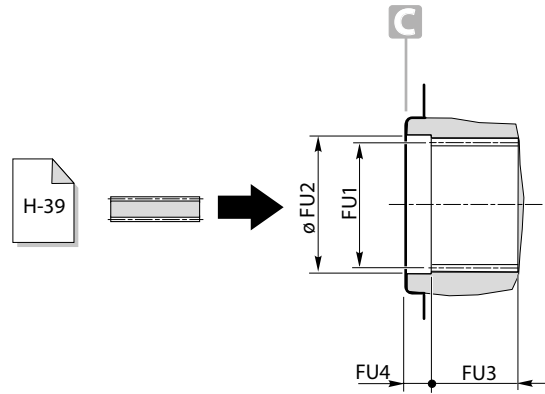


**1520 - 2000
2000L**



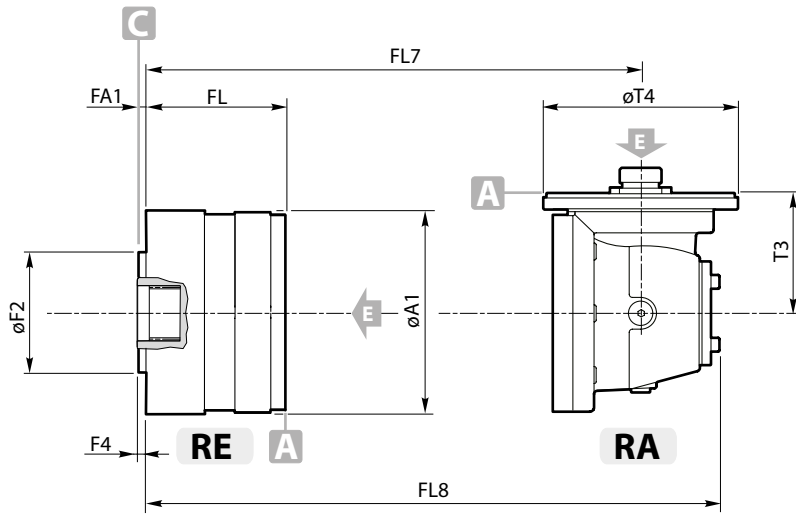
2520 - 3000



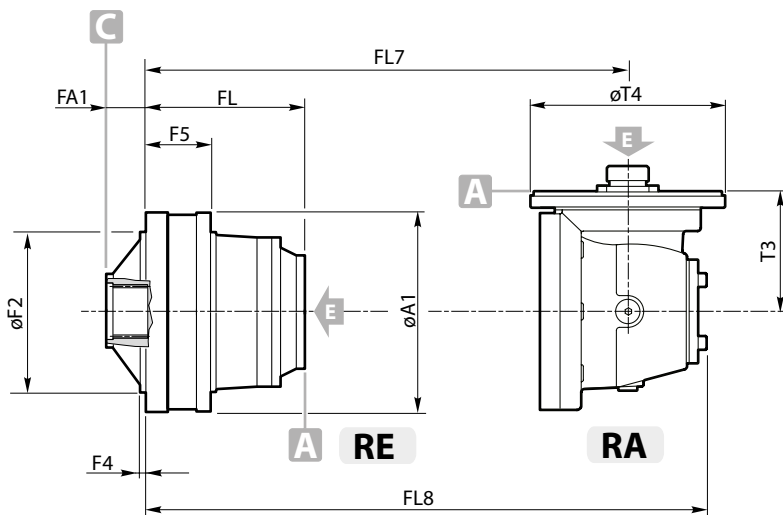
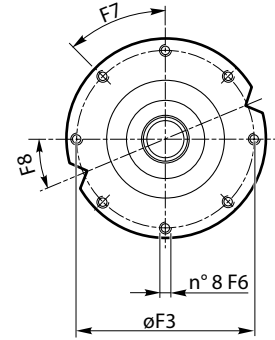


| | | RE - RA | | | | | | |
|----|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | 110 | 210 | 240 | 310 | 510 | 810 | 1020 |
| FS | FU1 | A 40x36 DIN 5482 | A 40x36 DIN 5482 | A 45x41 DIN 5482 | A 58x53 DIN 5482 | A 58x53 DIN 5482 | A 70x64 DIN 5482 | A 80x74 DIN 5482 |
| | FU2 | 42 H7 | 42 H7 | 46 H7 | 60 H7 | 60 H7 | 72 H7 | 85 H8 |
| | FU3 | 29 | 29 | 29 | 41 | 41 | 50 | 59 |
| | FU4 | 6 | 6 | 6 | 7 | 7 | 11.5 | 10 |

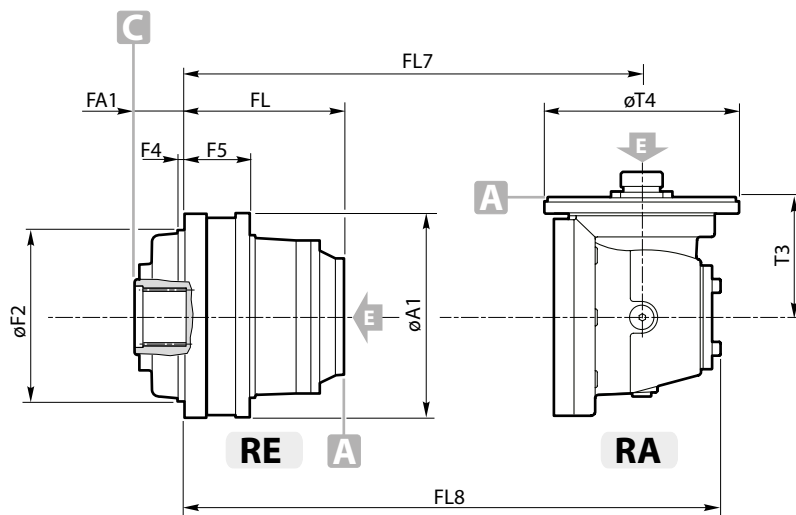
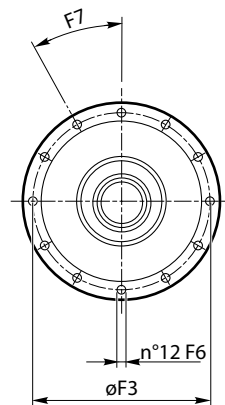
| | | RE - RA | | | | | | |
|-----|--------|---------|--------|--------|--------|--------|--------|--------|
| | stages | 110 | 210 | 240 | 310 | 510 | 810 | 1020 |
| A1 | | 186 | 186 | 186 | 244 | 244 | 295 | 295 |
| F2 | | 110 h7 | 110 h7 | 110 h7 | 200 h8 | 200 h8 | 240 f7 | 240 f7 |
| F3 | | 165 | 165 | 165 | 222 | 222 | 265 | 265 |
| F4 | | 5 | 5 | 5 | 9 | 9 | 10 | 10 |
| F5 | | — | — | — | 62 | 80 | 83 | 101 |
| F6 | | Ø10.5 | Ø10.5 | Ø10.5 | Ø10.5 | Ø10.5 | Ø13 | Ø13 |
| | | M10 | M10 | M10 | M10 | M10 | M12 | M12 |
| F7 | | 45° | 45° | 45° | 30° | 30° | 30° | 15° |
| F8 | | 22.5° | 22.5° | 22.5° | — | — | — | 15° |
| F9 | | — | — | — | — | — | — | 30° |
| FA1 | | 5 | 5 | 5 | 51 | 51 | 50 | 57 |
| FL | 1 | 59 | 71 | 71 | 39.5 | 57.5 | 67 | 85 |
| | 2 | 102 | 114 | 114 | 92 | 122 | 134 | 170 |
| | 3 | 145 | 157 | 157 | 135 | 165 | 186.5 | 234.5 |
| | 4 | 188 | 200 | 200 | 178 | 208 | 229.5 | 277.5 |
| FL7 | 2 | 140 | 152 | 152 | 188.5 | 179.5 | 209 | 227 |
| | 3 | 183 | 195 | 195 | 173 | 203 | 256.5 | 292 |
| | 4 | 226 | 238 | 238 | 216 | 246 | 267.5 | 315.5 |
| FL8 | 2 | 214.5 | 226.5 | 226.5 | 252.5 | 270.5 | 317 | 335 |
| | 3 | 257.5 | 269.5 | 269.5 | 247.5 | 277.5 | 347.5 | 383 |
| | 4 | 300.5 | 312.5 | 312.5 | 290.5 | 320.5 | 342 | 390 |
| T3 | 2 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 277 | 277 |
| | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | 184 | 184 | 184 | 184 | 183 | 242 | 242 |
| | 3 | 184 | 184 | 184 | 184 | 184 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |



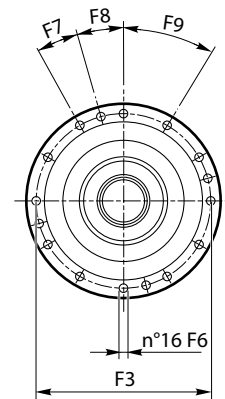
110 - 210 - 240

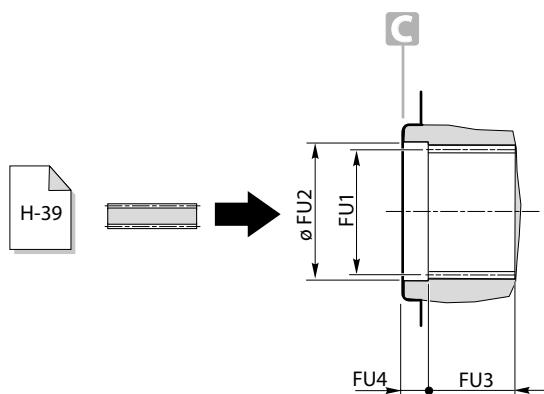


310 - 510 - 810



1020



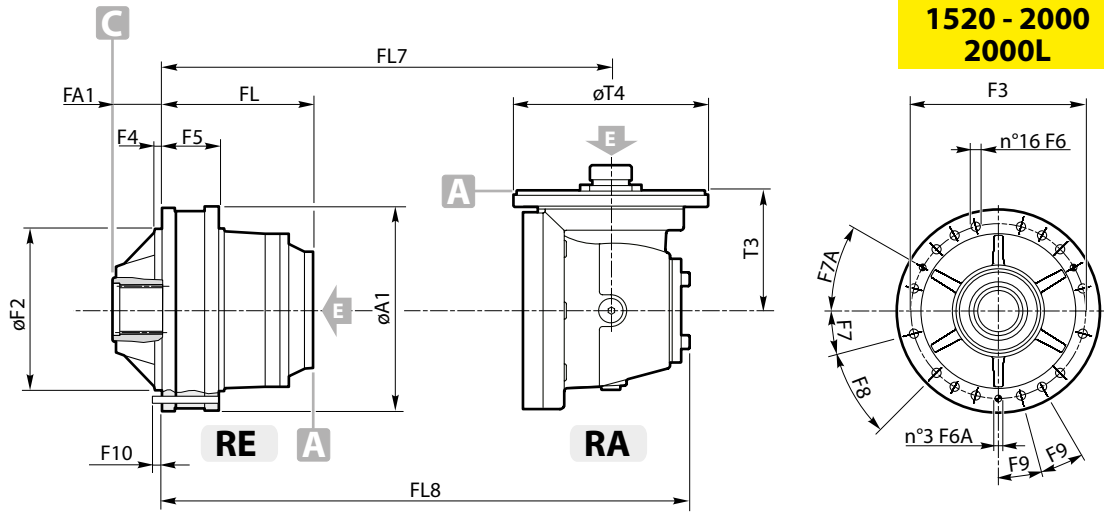


| | | RE - RA | | | | | | |
|-----------|------------|---------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|
| | | 1520 | 2000 | 2000L | 2520 | 3000 | 3510 | 4800 |
| FS | FU1 | A 80x74 DIN 5482 | A 80x74 DIN 5482" | A 80x74 DIN 5482" | A 100x94 DIN 5482" | A 100x94 DIN 5482 | N120x3x9H DIN5480 | N120x3x9H DIN5480 |
| | FU2 | 88 H8 | 88 H8 | 88 H8 | 102 H8 | 102 H8 | 121.5 H7 | 121.5 H7 |
| | FU3 | 77 | 77 | 77 | 86 | 86 | 85 | 85 |
| | FU4 | 7 | 7 | 7 | 10 | 10 | 10 | 10 |

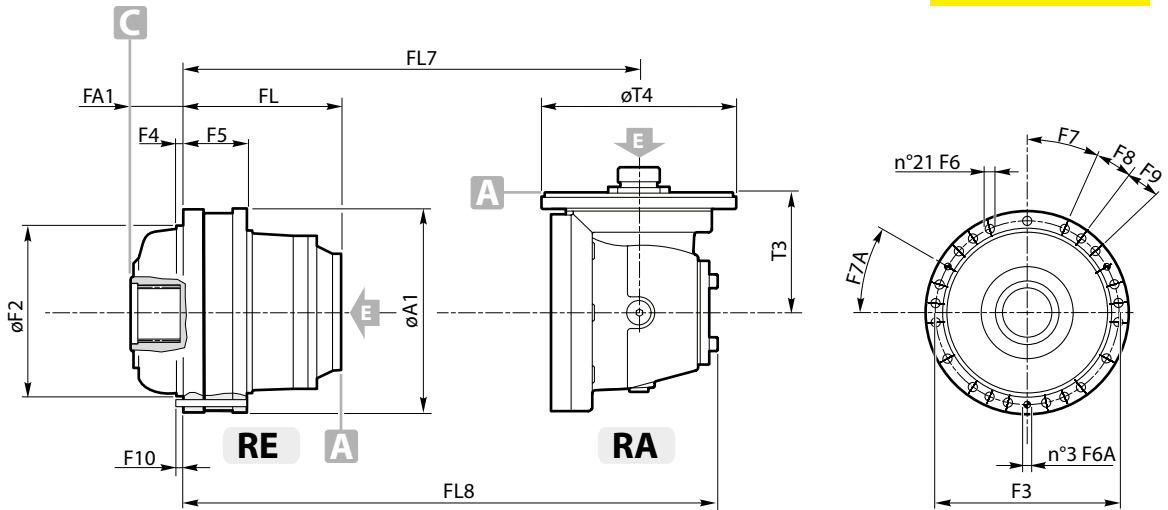
| | | RE - RA | | | | | | |
|------------|---|-----------|--------|--------|--------|--------|--------|--------|
| stages | | 1520 | 2000 | 2000L | 2520 | 3000 | 3510 | 4800 |
| A1 | | 350 | 350 | 350 | 409 | 409 | 452 | 452 |
| F2 | | 278 f7 | 278 f7 | 278 f7 | 340 f7 | 340 f7 | 390 f7 | 390 f7 |
| F3 | | 314 | 314 | 314 | 370 | 370 | 424 | 424 |
| F4 | | 12 | 12 | 12 | 18 | 18 | 15 | 15 |
| F5 | | 103.5 | 103.5 | 103.5 | 126 | 126 | 120 | 120 |
| F6 | | Ø16.5 | Ø16.5 | Ø16.5 | Ø17 | Ø17 | Ø17 | Ø17 |
| | | M. - 12.9 | | | | | | |
| | | M16 | M16 | M16 | M16 | M16 | M16 | M16 |
| F6A | | Ø12 | Ø12 | Ø12 | Ø16 | Ø16 | — | — |
| F7 | | 15° | 15° | 15° | 24° | 24° | 20° | 20° |
| F7A | | 30° | 30° | 30° | 30° | 30° | — | — |
| F8 | | 30° | 30° | 30° | 12° | 12° | 10° | 10° |
| F9 | | 15° | 15° | 15° | 12° | 12° | — | — |
| F10 | | 15 | 15 | 15 | 34 | 34 | — | — |
| FA1 | | 83 | 83 | 83 | 95 | 95 | 109.5 | 109.5 |
| FL | 1 | 77.5 | 77.5 | 77.5 | 93 | 93 | 85 | 85 |
| | 2 | 170.5 | 170.5 | 170.5 | 204 | 221 | 277 | 326 |
| | 3 | 235 | 229 | 235 | 271 | 306 | 362 | 419 |
| | 4 | 278 | 281.5 | 278 | 323.5 | 370.5 | 426.5 | 483.5 |
| FL7 | 2 | 283.5 | 283.5 | 283.5 | 287 | 287 | 339 | 339 |
| | 3 | 292.5 | 292.5 | 292.5 | 346 | 363 | 419 | 532 |
| | 4 | 316 | 351 | 316 | 393 | 428 | 484 | 541 |
| FL8 | 2 | 411.5 | 411.5 | 411.5 | 415 | 415 | 529 | 529 |
| | 3 | 383.5 | 383.5 | 383.5 | 454 | 471 | 527 | 660 |
| | 4 | 390.5 | 442 | 390.5 | 484 | 519 | 575 | 632 |
| T3 | 2 | 310 | 310 | 310 | 310 | 310 | 432 | 432 |
| | 3 | 171 | 171 | 171 | 227 | 227 | 227 | 310 |
| | 4 | 113.8 | 171 | 113.8 | 171 | 171 | 171 | 171 |
| T4 | 2 | 293 | 293 | 293 | 293 | 293 | 295 | 295 |
| | 3 | 183 | 183 | 183 | 242 | 242 | 242 | 293 |
| | 4 | 184 | 183 | 184 | 183 | 183 | 183 | 183 |



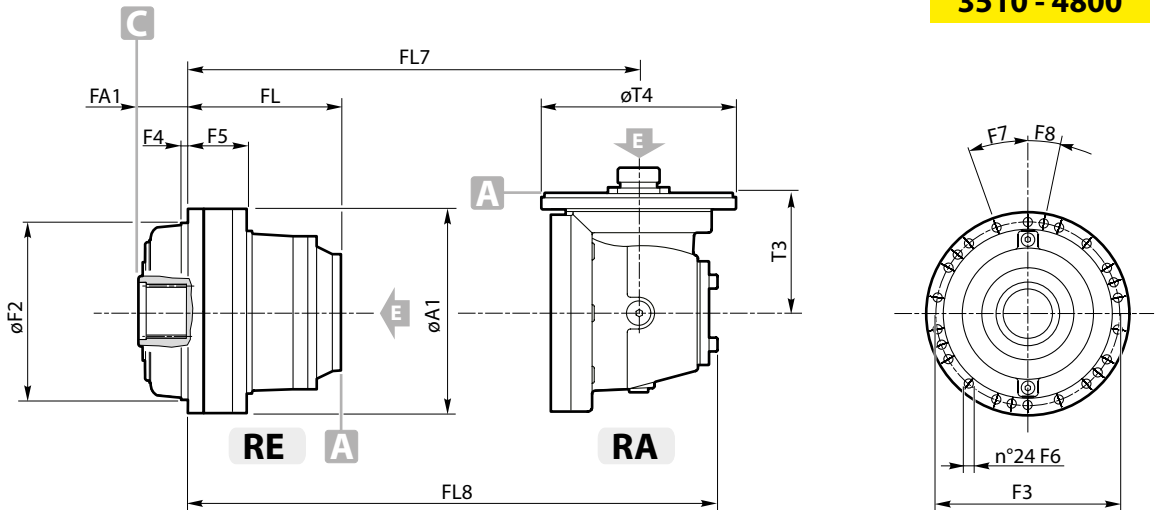
**1520 - 2000
2000L**

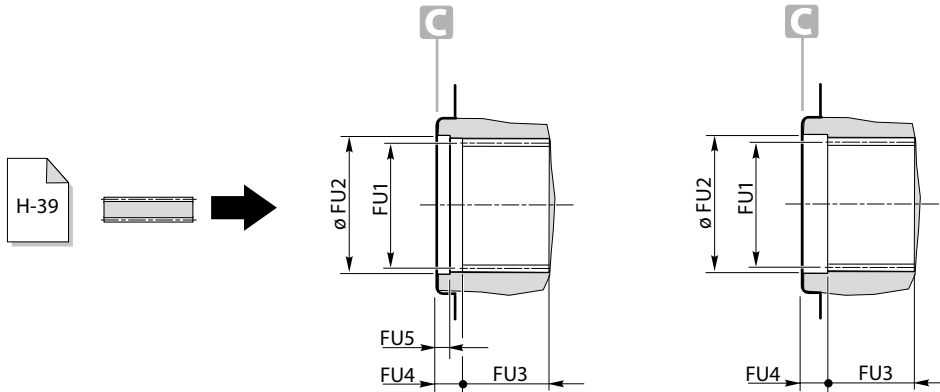


2520 - 3000



3510 - 4800



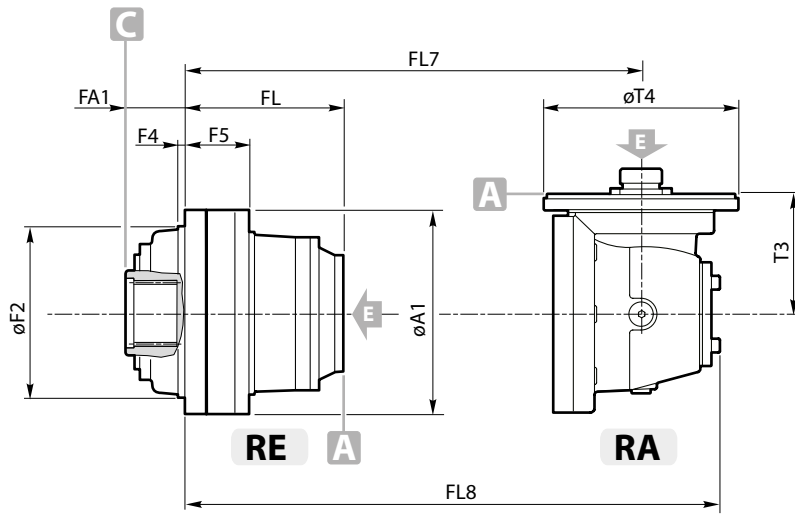


| FS | RE - RA | | GB - GBA | |
|-----|-----------------------|-----------------------|-----------------------|-----------------------|
| | 6000 | 8000 | 12010 | 16000 |
| FU1 | N140x5x9H DIN 5480 | N140x5x9H DIN 5480 | N160x5x9H DIN 5480 | N160x5x9H DIN 5480 |
| FU2 | 142 H9 | 142 H9 | 165 H7 | 165 H7 |
| FU3 | 97 | 122 | 100 | 100 |
| FU4 | — | — | 40 | 40 |
| FU5 | 12 | 12 | 20 | 20 |

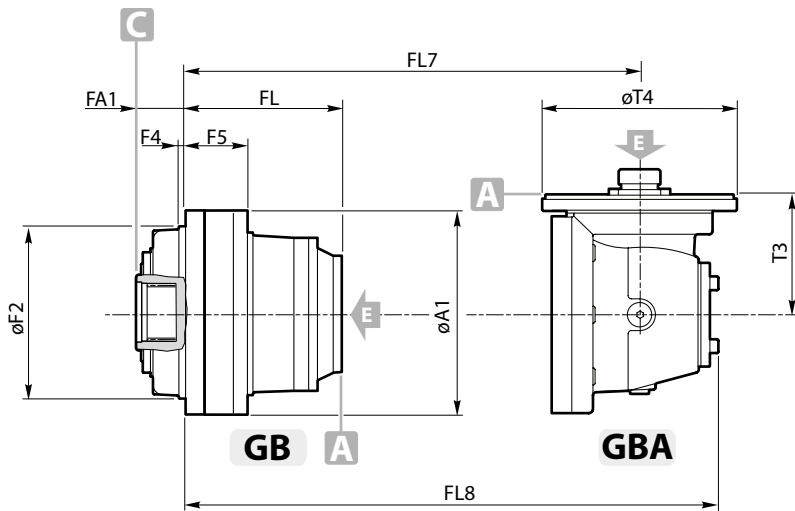
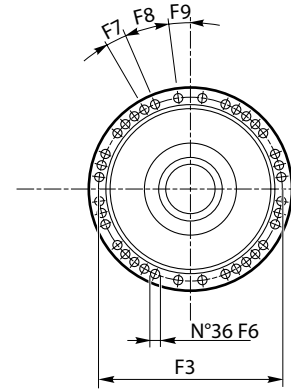
| FS1 | RE - RA | | GB - GBA | |
|-----|-----------------------|-----------------------|----------|-------|
| | 6000 | 8000 | 12010 | 16000 |
| FU1 | N150x5x9H DIN 5480 | N150x5x9H DIN 5480 | — | — |
| FU2 | 152 H7 | 152 H7 | — | — |
| FU3 | 74 | 74 | — | — |
| FU4 | 41 | 41 | — | — |
| FU5 | 20 | 20 | — | — |

| FS4 | RE - RA | | GB - GBA | |
|-----|---------|------|-----------------------|-----------------------|
| | 6000 | 8000 | 12010 | 16000 |
| FU1 | — | — | N180x5x9H DIN 5480 | N180x5x9H DIN 5480 |
| FU2 | — | — | 185 H7 | 185 H7 |
| FU3 | — | — | 100 | 100 |
| FU4 | — | — | — | — |
| FU5 | — | — | 40 | 40 |

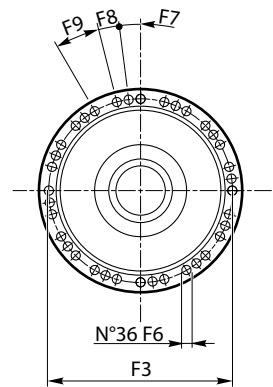
| | stages | RE - RA | | GB - GBA | |
|-----|--------|---------|--------|----------|--------|
| | | 6000 | 8000 | 12010 | 16000 |
| A1 | | 490 | 490 | 610 | 610 |
| F2 | | 410 f7 | 410 h8 | 515 h8 | 515 h8 |
| F3 | | 445 | 445 | 560 | 560 |
| F4 | | 15 | 15 | 20 | 20 |
| F5 | | 178.5 | 181.5 | 230 | 230 |
| F6 | | Ø19 | Ø19 | Ø25 | Ø25 |
| | | M18 M18 | | M24 M24 | |
| F7 | | 7°30' | 7°30' | 15° | 15° |
| F8 | | 15° | 15° | 7°30' | 7°30' |
| F9 | | 7°30' | 7°30' | 7°30' | 7°30' |
| FA1 | FS | 100 | 125 | 152 | 152 |
| | FS1 | 106 | 125 | — | — |
| | FS4 | — | — | 152 | 152 |
| FL | 1 | 136.5 | 136.5 | 160.5 | 160.5 |
| | 2 | 305 | 390.5 | 410 | 427 |
| | 3 | 398 | 518.5 | 538 | 668 |
| | 4 | 456.5 | 603.5 | 623 | 761 |
| | 5 | — | 668 | 687.5 | 825.5 |
| FL7 | 2 | 390.5 | 390.5 | — | — |
| | 3 | 511 | 584.5 | 604 | 681 |
| | 4 | 520 | 660.5 | 680 | 874 |
| FL8 | 2 | 580.5 | 580.5 | — | — |
| | 3 | 639 | 712.5 | 732 | 871 |
| | 4 | 611 | 768.5 | 788 | 1002 |
| T3 | 2 | — | — | 836 | 974 |
| | 3 | 432 | 432 | — | — |
| | 4 | 310 | 310 | 310 | 432 |
| T4 | 2 | 171 | 227 | 227 | 310 |
| | 3 | — | — | 171 | 171 |
| | 4 | 295 | 295 | — | — |
| T4 | 2 | 293 | 293 | 293 | 295 |
| | 3 | 183 | 242 | 242 | 293 |
| | 4 | — | — | 183 | 183 |

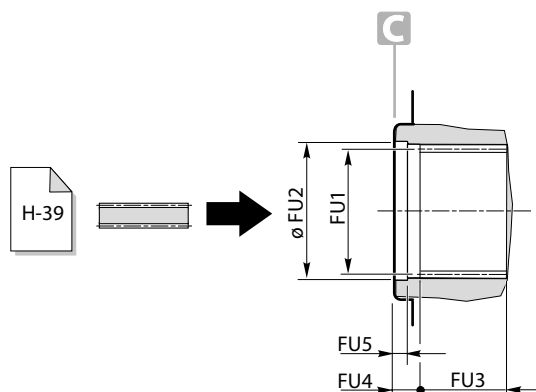


6000 - 8000



12010 - 16000



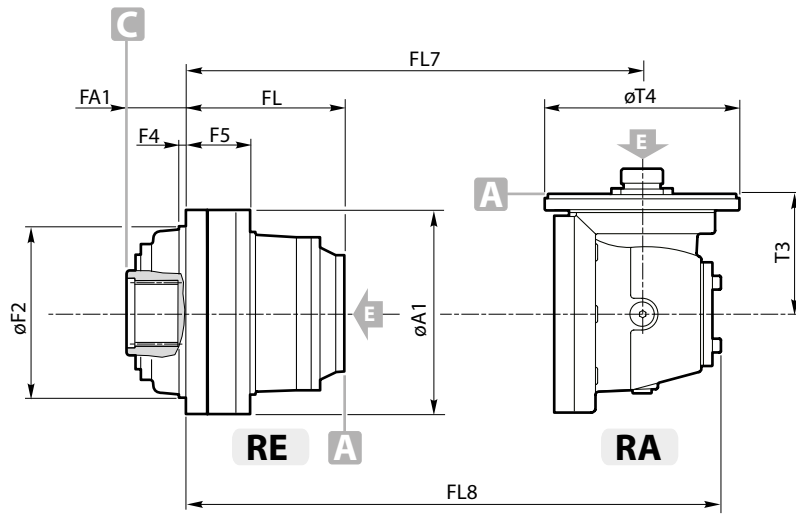


| | | RE - RA | | GB - GBA | |
|-----------|------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 6000L | 8000L | 12010L | 16000L |
| FS | FU1 | N140x5x9H DIN 5480 | N140x5x9H DIN 5480 | N160x5x9H DIN 5480 | N160x5x9H DIN 5480 |
| | FU2 | 142 H9 | 142 H9 | 165 H7 | 165 H7 |
| | FU3 | 97 | 122 | 100 | 100 |
| | FU4 | — | — | 40 | 40 |
| | FU5 | 12 | 12 | 20 | 20 |

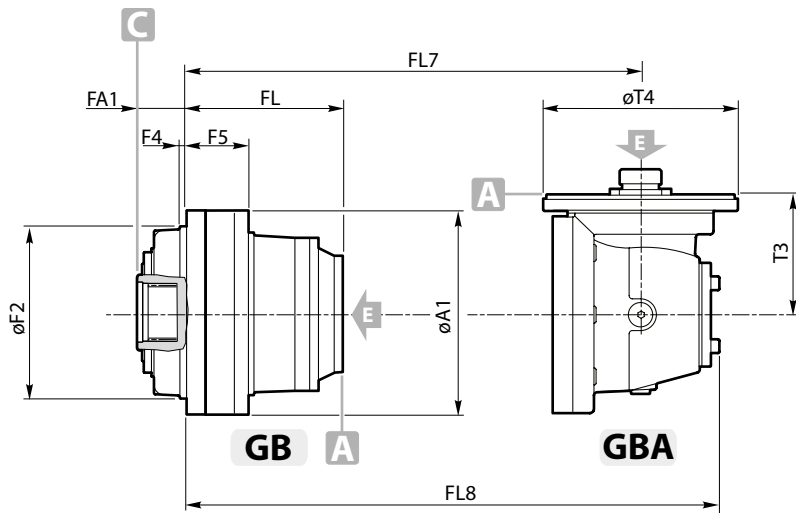
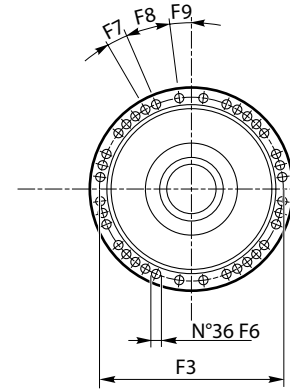
| | | RE - RA | | GB - GBA | |
|------------|------------|-----------------------|-----------------------|----------|--------|
| | | 6000L | 8000L | 12010L | 16000L |
| FS1 | FU1 | N150x5x9H DIN 5480 | N150x5x9H DIN 5480 | — | — |
| | FU2 | 152 H7 | 152 H7 | — | — |
| | FU3 | 74 | 74 | — | — |
| | FU4 | 41 | 41 | — | — |
| | FU5 | 20 | 20 | — | — |

| | | RE - RA | | GB - GBA | |
|------------|------------|---------|-------|-----------------------|-----------------------|
| | | 6000L | 8000L | 12010L | 16000L |
| FS4 | FU1 | — | — | N180x5x9H DIN 5480 | N180x5x9H DIN 5480 |
| | FU2 | — | — | 185 H7 | 185 H7 |
| | FU3 | — | — | 100 | 100 |
| | FU4 | — | — | 40 | 40 |
| | FU5 | — | — | — | — |

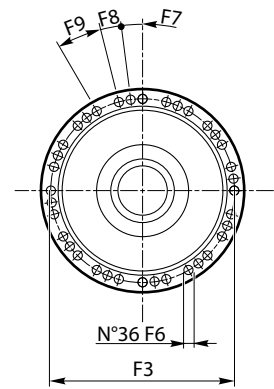
| | | RE - RA | | GB - GBA | |
|------------|--------|---------|--------|----------|--------|
| | | 6000L | 8000L | 12010L | 16000L |
| A1 | stages | 490 | 490 | 610 | 610 |
| F2 | | 410 f7 | 410 h8 | 515 h8 | 515 h8 |
| F3 | | 445 | 445 | 560 | 560 |
| F4 | | 15 | 15 | 20 | 20 |
| F5 | | 178.5 | 181.5 | 230 | 230 |
| F6 | | Ø19 | Ø19 | Ø25 | Ø25 |
| | | M18 | M18 | M24 | M24 |
| F7 | | 7°30' | 7°30' | 15° | 15° |
| F8 | | 15° | 15° | 7°30' | 7°30' |
| F9 | | 7°30' | 7°30' | 7°30' | 7°30' |
| FA1 | FS | 100 | 100 | 152 | 152 |
| | FS1 | 106 | 106 | — | — |
| | FS4 | — | — | 152 | 152 |
| FL | 1 | 136.5 | 136.5 | 160.5 | 160.5 |
| | 2 | 305 | 390.5 | 410 | 427 |
| | 3 | 398 | 501.5 | 521 | 619 |
| | 4 | 462.5 | 568.5 | 588 | 704 |
| | 5 | — | 621 | 640.5 | 768.5 |
| FL7 | 2 | 390.5 | 390.5 | — | — |
| | 3 | 511 | 584.5 | 604 | 681 |
| | 4 | 520 | 643.5 | 663 | 761 |
| FL8 | 2 | 580.5 | 580.5 | — | — |
| | 3 | 639 | 712.5 | 732 | 871 |
| | 4 | 611 | 751.5 | 771 | 869 |
| T3 | 2 | 432 | 432 | — | — |
| | 3 | 310 | 310 | 310 | 432 |
| | 4 | 171 | 227 | 227 | 310 |
| T4 | 2 | 295 | 295 | — | — |
| | 3 | 293 | 293 | 293 | 295 |
| | 4 | 183 | 242 | 242 | 293 |
| | 5 | — | — | 183 | 183 |

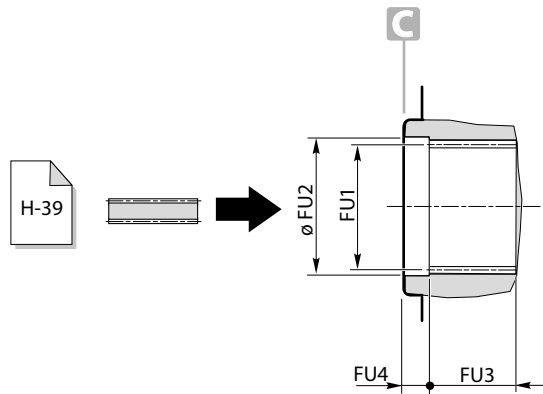


6000L - 8000L



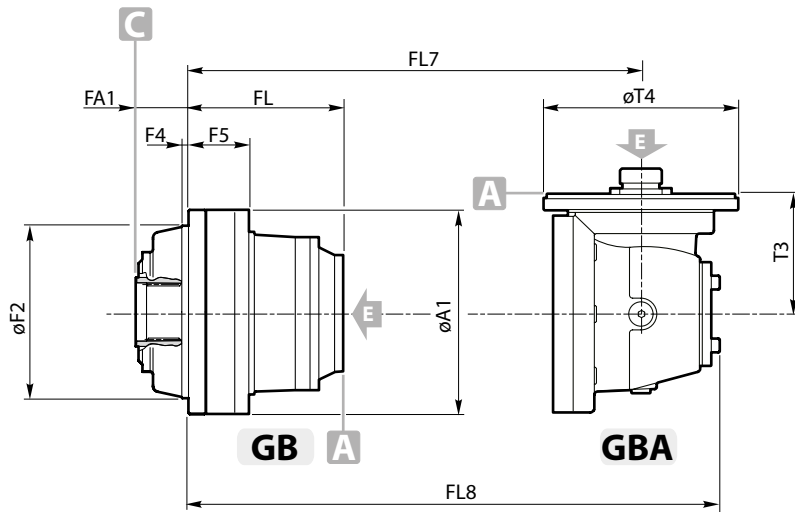
12010L - 16000L



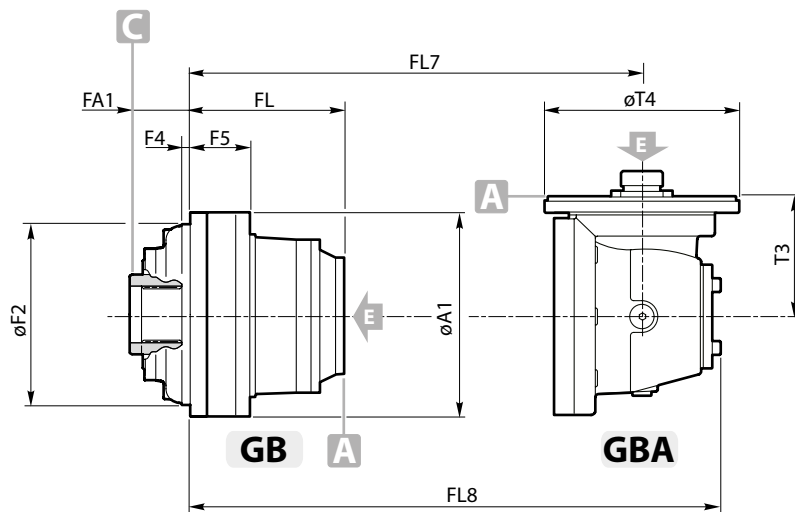
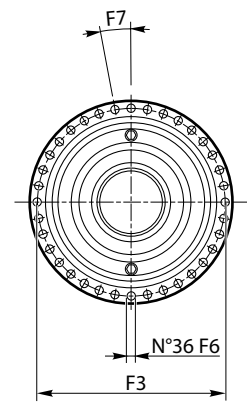


| | | GB - GBA | | | | | | | |
|----|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FS | | 21000 | 26000 | 31000 | 40000 | 45000 | 53000 | 61000 | 85000 |
| | FU1 | N200x5x9H DIN 5480 | N220x5x9H DIN 5480 | N240x5x9H DIN 5480 | N240x5x9H DIN 5480 | N280x6x9H DIN 5480 | N300x8x9H DIN 5480 | N300x8x9H DIN 5480 | N340x8x9H DIN 5480 |
| | FU2 | 202 H7 | 222 H7 | 242 H7 | 242 H7 | 281 H8 | 303 H7 | 303 H7 | 343 H7 |
| | FU3 | 120 | 120 | 170 | 170 | 175 | 190 | 190 | 190 |
| | FU4 | 38 | 38 | 50 | 50 | 50 | 70 | 70 | 70 |

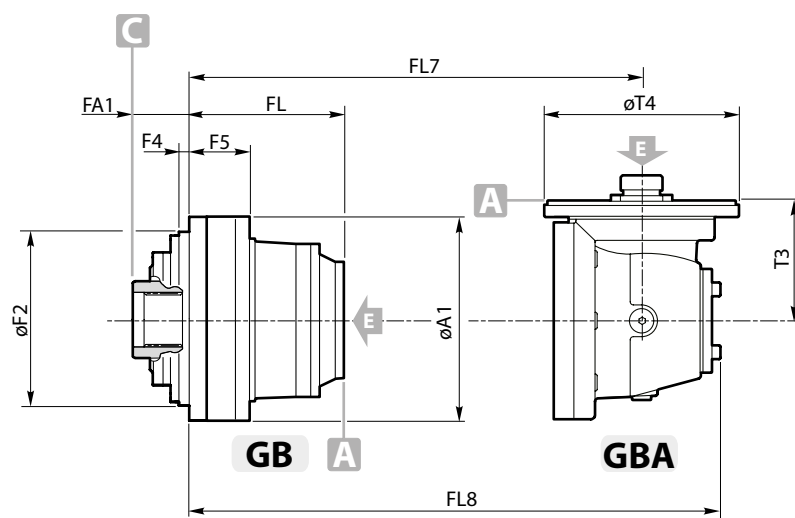
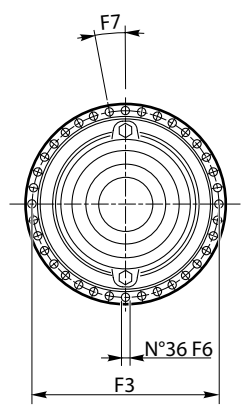
| | | GB - GBA | | | | | | | |
|------------|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | stages | 21000 | 26000 | 31000 | 40000 | 45000 | 53000 | 61000 | 85000 |
| A1 | | 710 | 710 | 870 | 870 | 870 | 1090 | 1090 | 1090 |
| F2 | | 600 h8 | 600 h8 | 760 h8 | 760 h8 | 760 h8 | 930 h8 | 930 h8 | 930 h8 |
| F3 | | 660 | 660 | 810 | 810 | 810 | 1020 | 1020 | 1020 |
| F4 | | 23.5 | 23.5 | 35 | 35 | 35 | 50 | 50 | 50 |
| F5 | | 196 | 216 | 250 | 290 | 290 | 305 | 305 | 353 |
| F6 | | \varnothing 28 | \varnothing 28 | \varnothing 32 | \varnothing 32 | \varnothing 32 | \varnothing 39 | \varnothing 39 | \varnothing 39 |
| | | M... - 10.9 | | | | | | | |
| | | M27 | M27 | M30 | M30 | M30 | M36 | M36 | M36 |
| F7 | | 10° | 10° | 10° | 10° | 10° | 10° | 10° | 10° |
| FA1 | | 185 | 185 | 255 | 255 | 260 | 300 | 300 | 300 |
| FL | 1 | 138 | 158 | 180 | 220 | 220 | 225 | 225 | 273 |
| | 2 | 443 | 463 | 588.5 | 628.5 | 628.5 | 700 | 700 | 768 |
| | 3 | 611.5 | 717 | 838 | 878 | 895 | 1005 | 1005 | 1073 |
| | 4 | 704.5 | 845 | 966 | 1006 | 1136 | 1173.5 | 1173.5 | 1327 |
| | 5 | 763 | 930 | 1051 | 1091 | 1229 | 1266.5 | 1266.5 | 1455 |
| FL7 | 3 | 697 | 717 | — | — | — | — | — | — |
| | 4 | 817.5 | 911 | 1032 | 1072 | 1149 | 1259 | 1259 | 1327 |
| | 5 | 826.5 | 987 | 1108 | 1148 | 1342 | 1379.5 | 1379.5 | 1521 |
| | 6 | — | — | — | — | — | — | 1388.5 | 1597 |
| FL8 | 3 | 887 | 907 | — | — | — | — | — | — |
| | 4 | 945.5 | 1039 | 1160 | 1200 | 1339 | 1449 | 1449 | 1517 |
| | 5 | 917.5 | 1095 | 1216 | 1256 | 1470 | 1507.5 | 1507.5 | 1649 |
| | 6 | — | — | — | — | — | — | 1479.5 | 1705 |
| T3 | 3 | 432 | 432 | — | — | — | — | — | — |
| | 4 | 310 | 310 | 310 | 310 | 432 | 432 | 432 | 432 |
| | 5 | 171 | 227 | 227 | 227 | 310 | 310 | 310 | 310 |
| | 6 | — | — | — | — | — | — | 171 | 171 |
| T4 | 3 | 295 | 295 | — | — | — | — | — | — |
| | 4 | 293 | 293 | 293 | 293 | 295 | 295 | 295 | 295 |
| | 5 | 183 | 242 | 242 | 242 | 293 | 293 | 293 | 293 |
| | 6 | — | — | — | — | — | — | 183 | 183 |



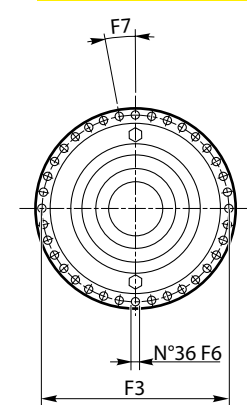
21000 - 26000

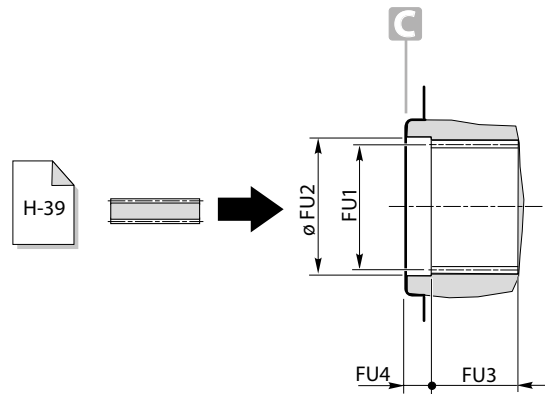


31000 ÷ 45000



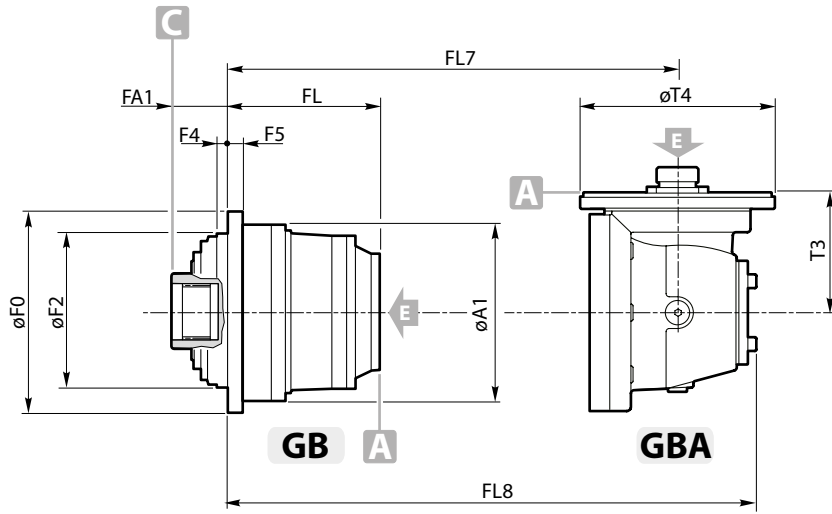
53000 ÷ 85000



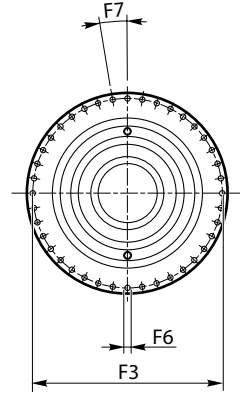


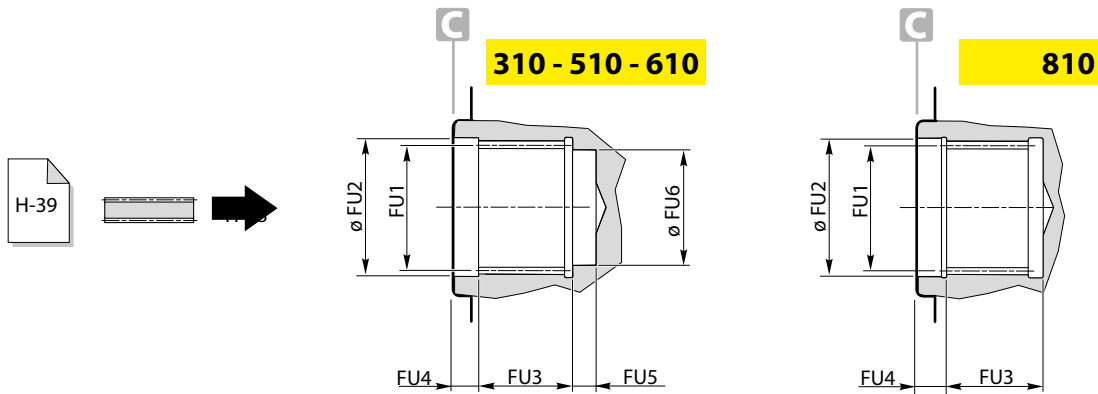
| GB - GBA | | | | | | |
|-----------|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 110000 | 130000 | 150000 | 205000 | 235000 | |
| FS | FU1 | N420x8x9H DIN 5480 | N420x8x9H DIN 5480 | N420x8x9H DIN 5480 | N500x8x9H DIN 5480 | N500x8x9H DIN 5480 |
| | FU2 | 430 H7 | 430 H7 | 430 H7 | 510 H8 | 510 H8 |
| | FU3 | 210 | 210 | 210 | 265 | 265 |
| | FU4 | 80 | 80 | 80 | 73 | 73 |

| GB - GBA | | | | | | |
|------------|--------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | stages | 110000 | 130000 | 150000 | 205000 | 235000 |
| A1 | | 1320 | 1320 | 1320 | 1630 | 1630 |
| F0 | | 1538 | 1538 | 1538 | 1880 | 1880 |
| F2 | | 1150 h9 | 1150 h9 | 1150 h9 | 1440 h8 | 1440 h8 |
| F3 | | 1450 | 1450 | 1450 | 1780 | 1780 |
| F4 | | 80 | 80 | 80 | 80 | 80 |
| F5 | | 110 | 110 | 110 | 110 | 110 |
| F6 | | $\varnothing 44$ (x40) | $\varnothing 44$ (x40) | $\varnothing 44$ (x40) | $\varnothing 44$ (x48) | $\varnothing 44$ (x48) |
| | | M. - 10.9 | | | | |
| | | M42 | M42 | M42 | M42 | M42 |
| F7 | | 9° | 9° | 9° | 7°30' | 7°30' |
| FA1 | | 402.5 | 402.5 | 402.5 | 375 | 375 |
| FL | 1 | 315 | 315 | 315 | 303 | 303 |
| | 2 | 966.5 | 966.5 | 966.5 | 1016 | 1016 |
| | 3 | 1375 | 1375 | 1375 | 1511 | 1590.5 |
| | 4 | 1624.5 | 1641.5 | 1721.5 | 1852 | 1986.5 |
| | 5 | 1752.5 | 1882.5 | 1890 | 2101.5 | 2236 |
| FL7 | 5 | 1818.5 | 1895.5 | — | — | — |
| | 6 | 1894.5 | 2088.5 | — | — | — |
| FL8 | 5 | 1946.5 | 2085.5 | — | — | — |
| | 6 | 2002.5 | 2216.5 | — | — | — |
| T3 | 5 | 310 | 432 | — | — | — |
| | 6 | 227 | 310 | — | — | — |
| T4 | 5 | 293 | 295 | — | — | — |
| | 6 | 242 | 293 | — | — | — |



110000 ÷ 235000

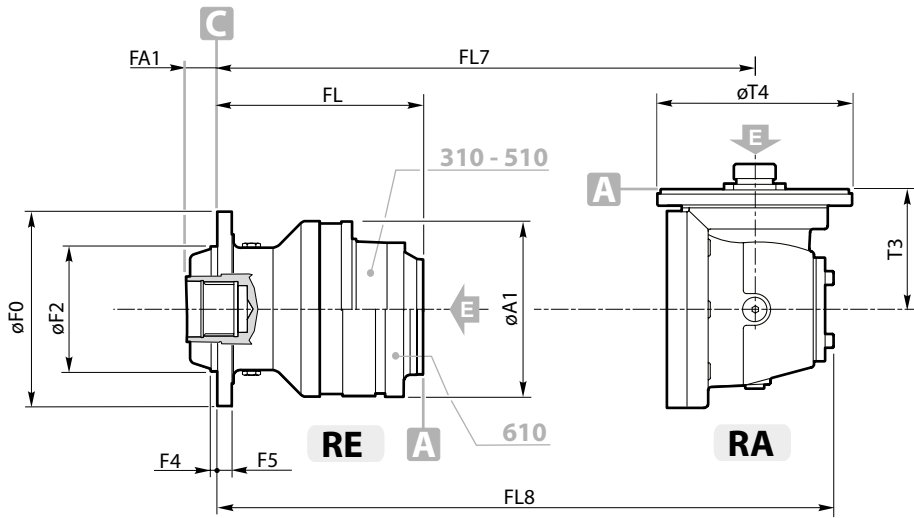




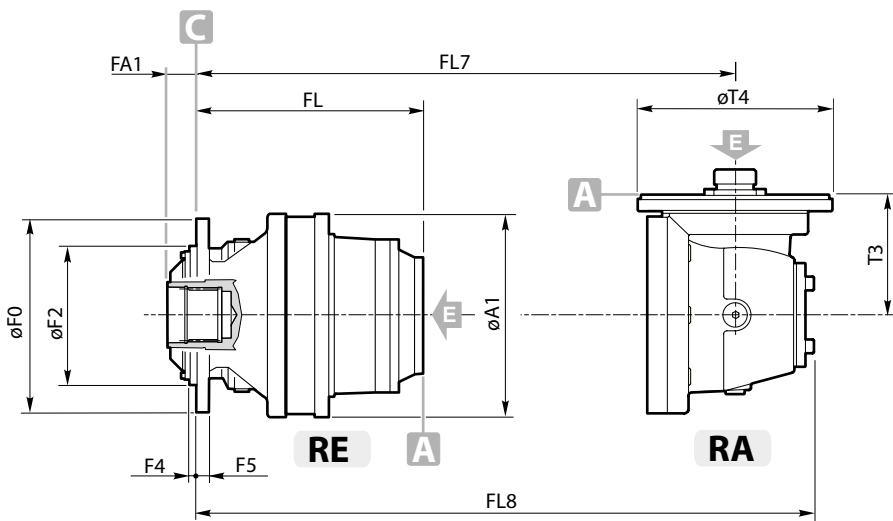
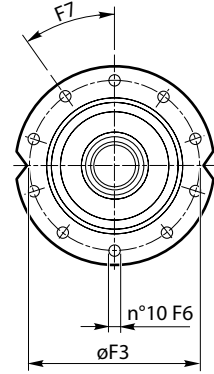
| | | RE - RA | | | |
|----|-----|---------------------|---------------------|---------------------|---------------------|
| | | 310 | 510 | 610 | 810 |
| NF | FU1 | A 58x53 DIN 5482 | A 58x53 DIN 5482 | A 58x53 DIN 5482 | A 70x64 DIN 5482 |
| | FU2 | 60 H8 | 60 H8 | 60 H8 | 72 H8 |
| | FU3 | 29 | 29 | 29 | 45 |
| | FU4 | 15 | 15 | 15 | 22 |
| | FU5 | 10 | 10 | 10 | — |
| | FU6 | 50 H8 | 50 H8 | 50 H8 | — |

| | | RE - RA | | | |
|-----|--------|------------|--------|--------|--------|
| | | 310 | 510 | 610 | 810 |
| A1 | stages | 244 | 244 | 244 | 295 |
| F0 | | 222 | 222 | 222 | 280 |
| F2 | | 150 f7 | 150 f7 | 150 f7 | 200 f7 |
| F3 | | 195 | 195 | 195 | 250 |
| F4 | | 13.5 | 13.5 | 13.5 | 10.5 |
| F5 | | 16 | 16 | 16 | 18 |
| F6 | | Ø12.5 | Ø12.5 | 12.5 | Ø15 |
| | | M.. - 12.9 | | | |
| F7 | | M12 | M12 | M12 | M14 |
| F7 | | 36° | 36° | 36° | 30° |
| FA1 | | 15 | 15 | 15 | 40 |
| FL | 1 | 133 | 151 | 151 | 162.5 |
| | 2 | 185.5 | 215.5 | 209.5 | 229.5 |
| | 3 | 228.5 | 258.5 | 262 | 282 |
| | 4 | 271.5 | 301.5 | 305 | 325 |
| FL7 | 2 | 255 | 273 | 273 | 304.5 |
| | 3 | 266.5 | 296.5 | 331.5 | 351.5 |
| | 4 | 309.5 | 339.5 | 343 | 363 |
| FL8 | 2 | 346 | 364 | 364 | 412.5 |
| | 3 | 341 | 371 | 422.5 | 442.5 |
| | 4 | 384 | 414 | 417.5 | 437.5 |
| T3 | 2 | 171.5 | 171.5 | 171.5 | 277 |
| | 3 | 113.8 | 113.8 | 171.5 | 171.5 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | 183 | 183 | 183 | 242 |
| | 3 | 184 | 184 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 |

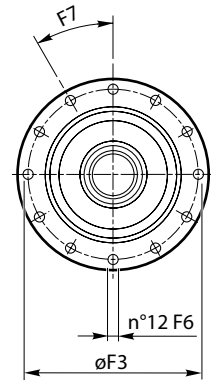


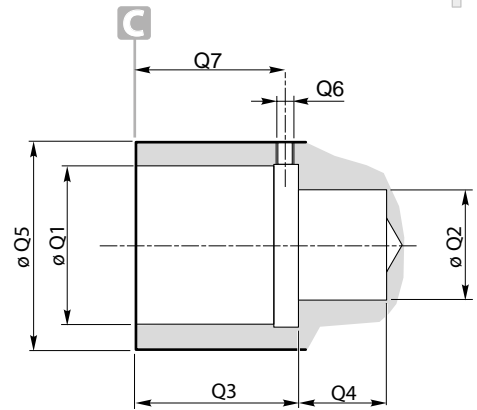
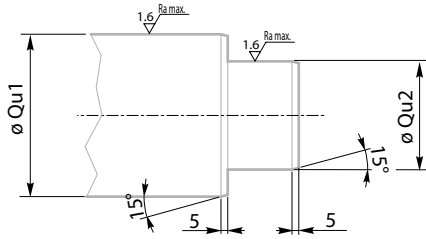
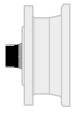


310 - 510 - 610



810





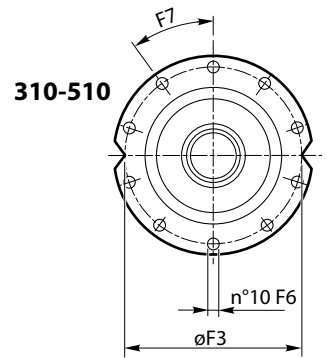
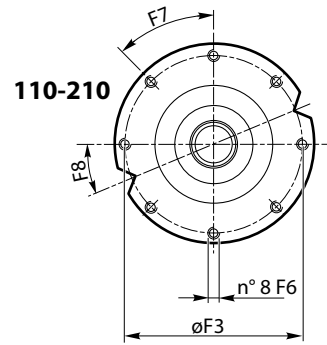
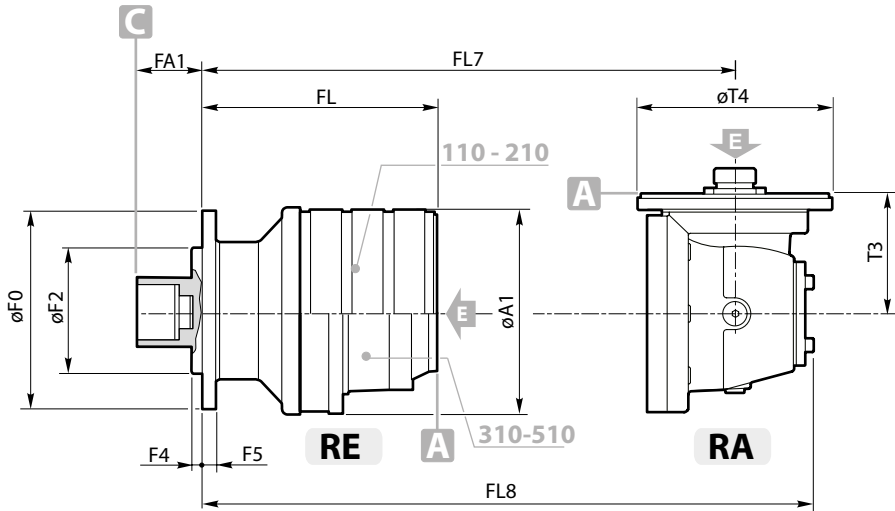
| | | RE - RA | | | |
|-----------|------------|---------|-------|--------|--------|
| | | 110 | 210 | 310 | 510 |
| NQ | Q1 | 50 H7 | 50 H7 | 75 H7 | 75 H7 |
| | Q2 | 30 H7 | 30 H7 | 40 H7 | 40 H7 |
| | Q3 | 38 | 38 | 55 | 55 |
| | Q4 | 12 | 12 | 20 | 20 |
| | Q5 | 62 f7 | 62 f7 | 100 f7 | 100 f7 |
| | Q6 | — | — | 1/8"G | 1/8"G |
| | Q7 | — | — | 52 | 52 |
| | Qu1 | 50 g6 | 50 g6 | 75 g6 | 75 g6 |
| | Qu2 | 30 f6 | 30 f6 | 40 f6 | 40 f6 |

| | | RE - RA | | | | | |
|------------|---|---------|--------|--------|--------|--------|--------|
| | | stages | 110 | 210 | 310 | 510 | 610 |
| A1 | | | 186 | 186 | 244 | 244 | 244 |
| F0 | | | 185 | 185 | 222 | 222 | 222 |
| F2 | | | 110 h7 | 110 h7 | 150 f7 | 150 f7 | 150 f7 |
| F3 | | | 165 | 165 | 195 | 195 | 195 |
| F4 | | | 5 | 5 | 13.5 | 13.5 | 13.5 |
| F5 | | | 12 | 12 | 16 | 16 | 16 |
| F6 | | | 10.5 | 10.5 | 12.5 | 12.5 | 12.5 |
| | | | M10 | M10 | M12 | M12 | M12 |
| F7 | | | 45° | 45° | 36° | 36° | 36° |
| F8 | | | 22.5° | 22.5° | — | — | — |
| FA1 | | | 55 | 55 | 87 | 87 | 87 |
| FL | 1 | | 95 | 107 | 133 | 151 | 151 |
| | 2 | | 138 | 150 | 185.5 | 215.5 | 209.5 |
| | 3 | | 181 | 193 | 228.5 | 258.5 | 262 |
| | 4 | | 224 | 236 | 271.5 | 301.5 | 305 |
| FL7 | 2 | | 176 | 188 | 255 | 273 | 273 |
| | 3 | | 219 | 231 | 266.5 | 296.5 | 331.5 |
| | 4 | | 262 | 274 | 309.5 | 339.5 | 343 |
| FL8 | 2 | | 250.5 | 262.5 | 346 | 364 | 364 |
| | 3 | | 293.5 | 305.5 | 341 | 371 | 422.5 |
| | 4 | | 336.5 | 348.5 | 384 | 414 | 417.5 |
| T3 | 2 | | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 |
| | 3 | | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 |
| | 4 | | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | | 184 | 184 | 183 | 183 | 183 |
| | 3 | | 184 | 184 | 184 | 184 | 183 |
| | 4 | | 184 | 184 | 184 | 184 | 184 |

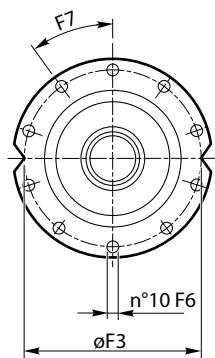
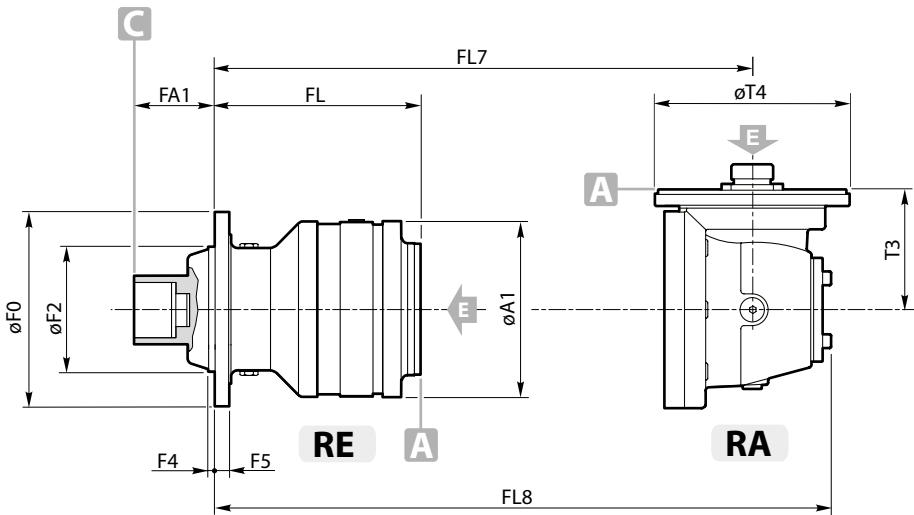


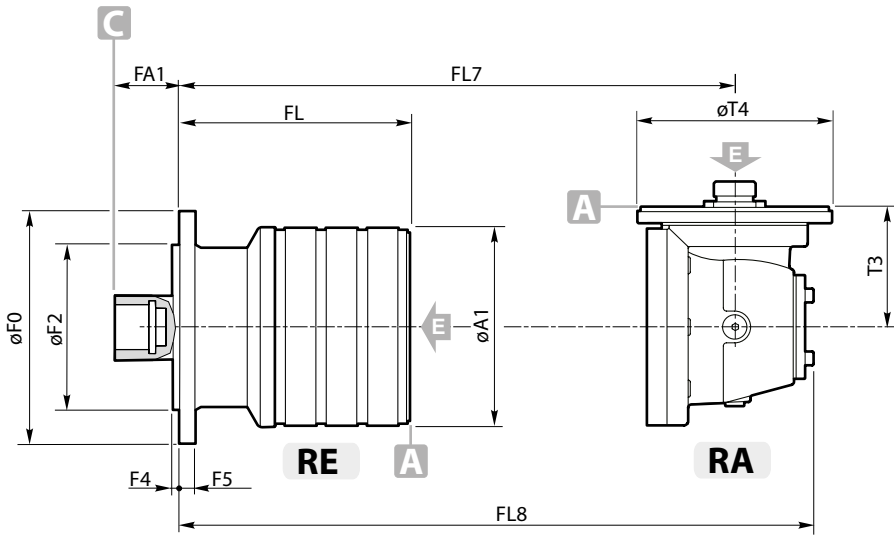


110 ÷ 510

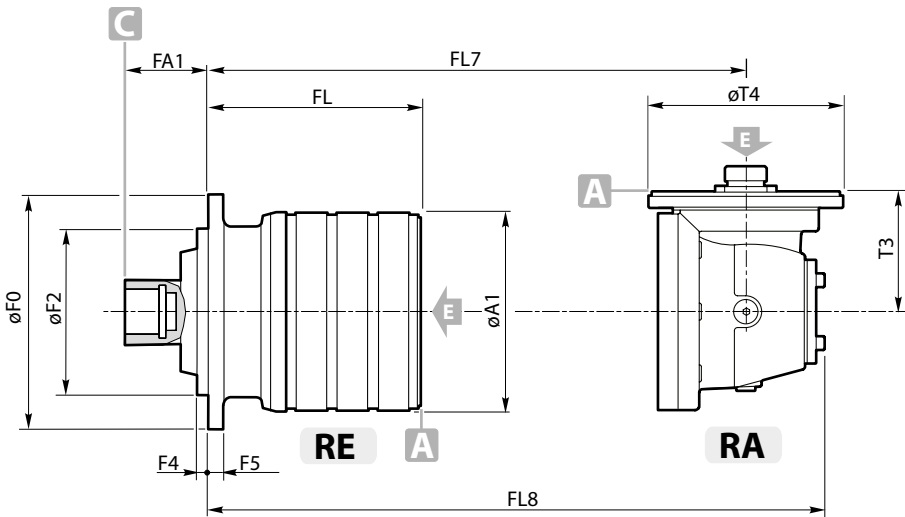
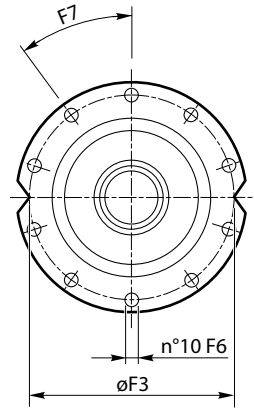


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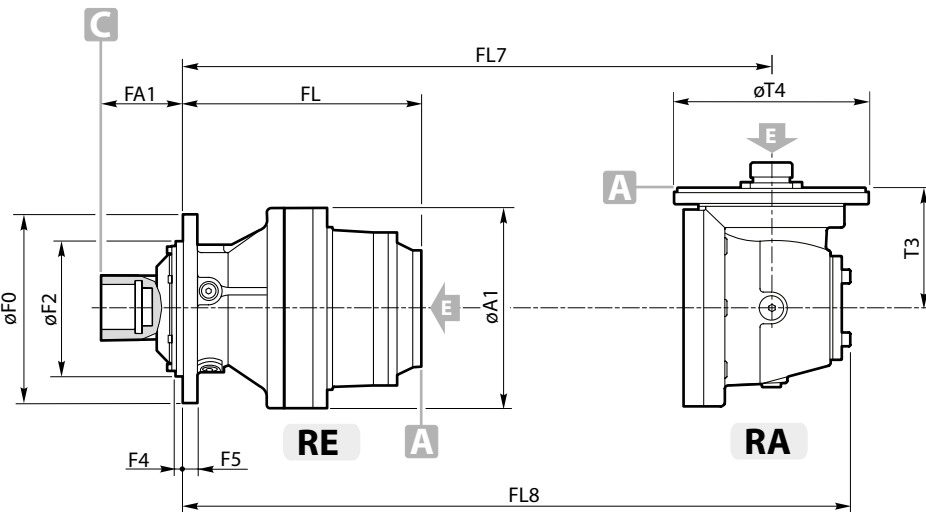
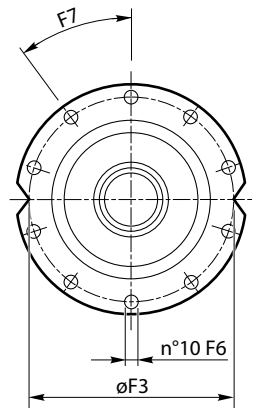




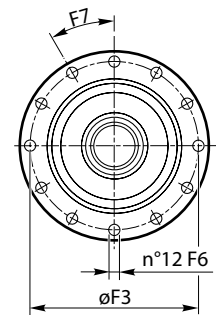
TQ 240



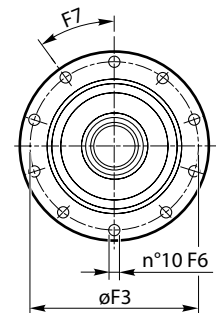
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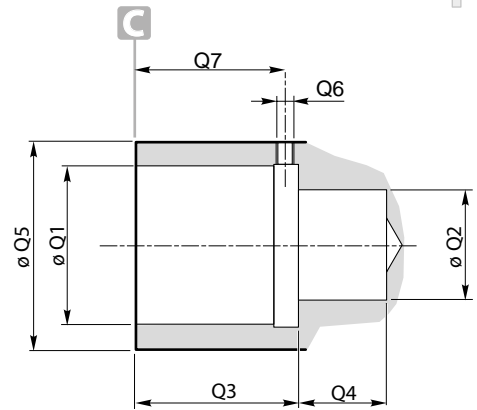
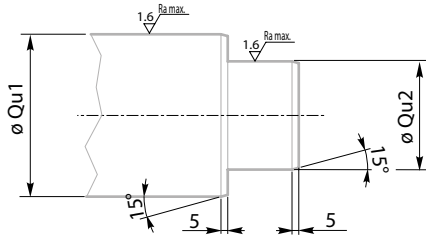
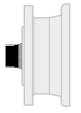


TQ 810



TQ 1020 ÷ 2000L





| | | RE - RA | | | | | |
|-----|-------|---------|---------------|--------|--------|--------|--------|
| | | 1520 | 2000 2000L | 2520 | 3000 | 3510 | 4800 |
| HQ | Q1 | 120 H7 | 120 H7 | 130 H7 | 130 H7 | 145 H7 | 145 H7 |
| | Q2 | 80 H7 | 80 H7 | 80 H7 | 80 H7 | 100 H7 | 100 H7 |
| | Q3 | 85 | 85 | 100 | 100 | 146 | 146 |
| | Q4 | 30 | 30 | 30 | 30 | 89.5 | 89.5 |
| | Q5 | 165 f7 | 165 f7 | 175 f7 | 175 f7 | 185 f7 | 185 f7 |
| | Q6 | 1/8"G | 1/8"G | 1/8"G | 1/8"G | 1/8"G | 1/8"G |
| | Q7 | 97.5 | 97.5 | 99 | 99 | 136 | 136 |
| | Qu1 | 120 g6 | 120 g6 | 130 g6 | 130 g6 | 145 g6 | 145 g6 |
| Qu2 | 80 f6 | 80 f6 | 80 f6 | 80 f6 | 100 f6 | 100 f6 | |

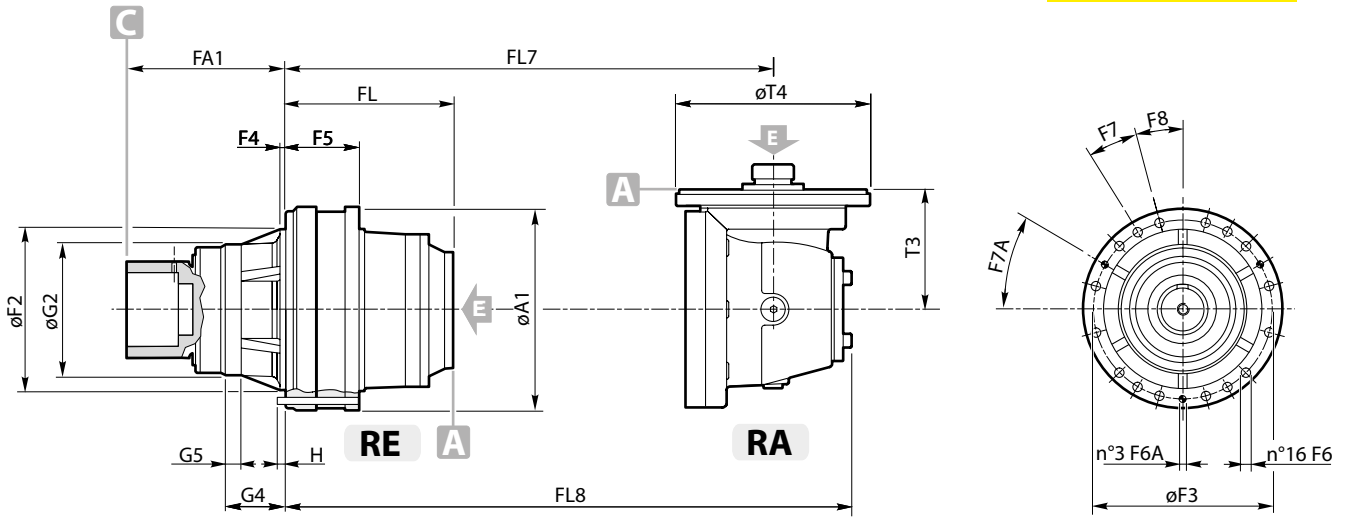
| | | RE - RA | |
|-----|--------|---------|--|
| | | 4800 | |
| HQ1 | Q1 | 155 H7 | |
| | Q2 | 100 H7 | |
| | Q3 | 146 | |
| | Q4 | 99.5 | |
| | Q5 | 200 f7 | |
| | Q6 | 1/8"G | |
| | Q7 | 136 | |
| Qu1 | 155 g6 | | |
| Qu2 | 100 f6 | | |

| | | RE - RA | | | | | | | |
|-----|----|---------|--------------------|--------------------|--------------------|------------------|------------------|------------------|------------------|
| | | stages | 1520 | 2000 | 2000L | 2520 | 3000 | 3510 | 4800 |
| A1 | | | 350 | 350 | 350 | 409 | 409 | 452 | 452 |
| FA1 | Q1 | | 273 | 273 | 273 | 310 | 310 | 250 | 250 |
| F2 | | | 278 f7 | 278 f7 | 278 f7 | 340 f7 | 340 f7 | 390 f8 | 390 f8 |
| F3 | | | 314 | 314 | 314 | 370 | 370 | 424 | 424 |
| F4 | | | 10 | 10 | 10 | 17 | 17 | 15 | 15 |
| F5 | | | 133 | 133 | 133 | 131 | 131 | 120 | 120 |
| F6 | | | $\varnothing 16.5$ | $\varnothing 16.5$ | $\varnothing 16.5$ | $\varnothing 17$ | $\varnothing 17$ | $\varnothing 17$ | $\varnothing 17$ |
| F6A | | | M16 | M16 | M16 | M16 | M16 | M16 | M16 |
| F7 | | | 15° | 15° | 15° | 12° | 12° | 20° | 20° |
| F7A | | | 30° | 30° | 30° | 30° | 30° | — | — |
| F8 | | | 15° | 15° | 15° | 24° | 24° | 10° | 10° |
| FL | 1 | | 107 | 107 | 107 | 98 | 98 | 85 | 85 |
| | 2 | | 200 | 200 | 200 | 209 | 226 | 277 | 326 |
| | 3 | | 264.5 | 258.5 | 264.5 | 276 | 311 | 362 | 419 |
| | 4 | | 307.5 | 311 | 307.5 | 328.5 | 375.5 | 426.5 | 483.5 |
| FL7 | 2 | | 313 | 313 | 313 | 292 | 292 | 339 | 339 |
| | 3 | | 322 | 322 | 322 | 351 | 368 | 419 | 532 |
| FL8 | 2 | | 345.5 | 380.5 | 345.5 | 398 | 433 | 484 | 541 |
| | 3 | | 441 | 441 | 441 | 420 | 420 | 529 | 529 |
| G2 | 2 | | 413 | 413 | 413 | 459 | 476 | 527 | 660 |
| | 3 | | 420 | 472 | 420 | 489 | 524 | 575 | 632 |
| G4 | | | 225 f7 | 225 f7 | 225 f7 | 245 f7 | 245 f7 | — | — |
| G5 | | | 104.5 | 104.5 | 104.5 | 142 | 142 | — | — |
| H | | | 27.5 | 27.5 | 27.5 | 29 | 29 | — | — |
| T3 | 2 | | 15 | 15 | 15 | 29 | 29 | — | — |
| | 2 | | 310 | 310 | 310 | 310 | 310 | 432 | 432 |
| | 3 | | 171 | 171 | 171 | 227 | 227 | 227 | 310 |
| T4 | 4 | | 113.8 | 171 | 113.8 | 171 | 171 | 171 | 171 |
| | 2 | | 293 | 293 | 293 | 293 | 293 | 295 | 295 |
| | 3 | | 183 | 183 | 183 | 242 | 242 | 242 | 293 |
| T4 | 4 | | 184 | 183 | 184 | 183 | 183 | 183 | 183 |

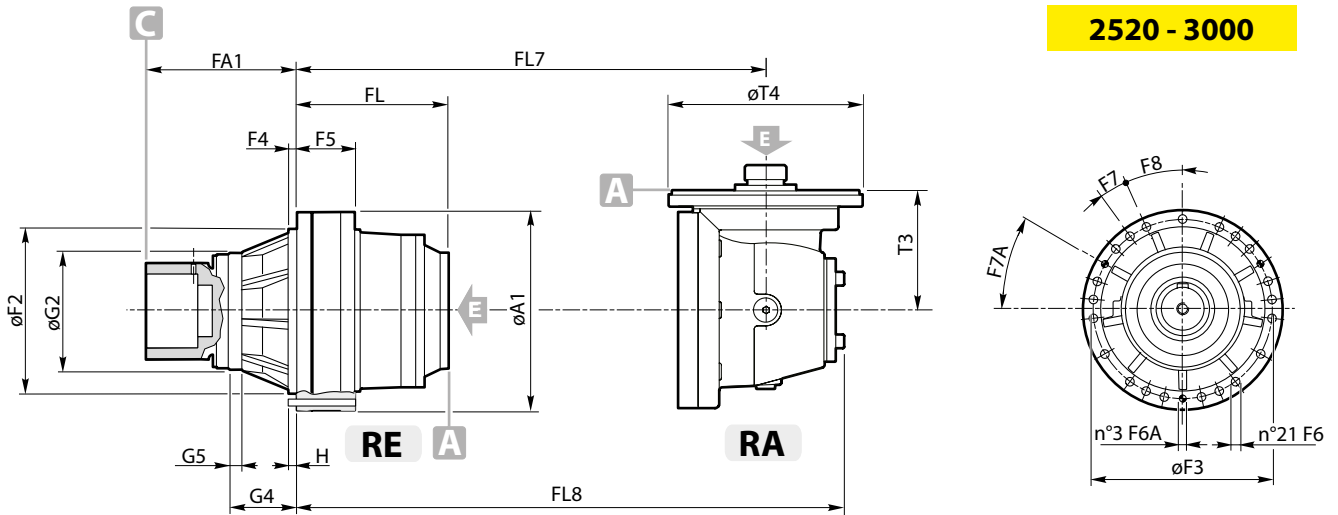




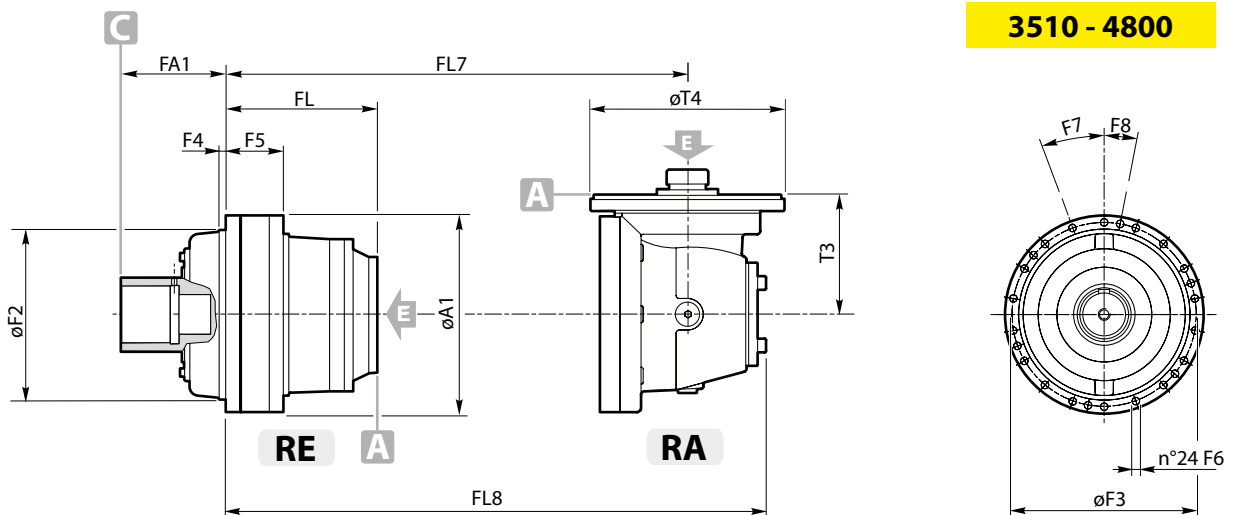
1520 ÷ 2000L

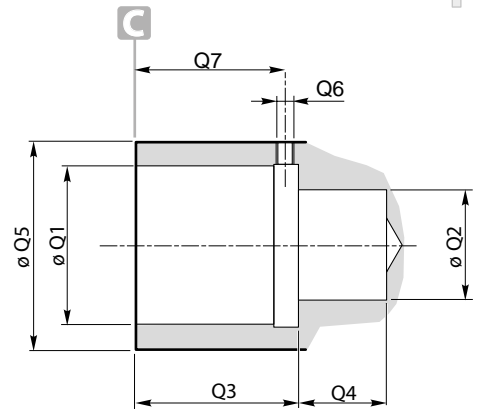
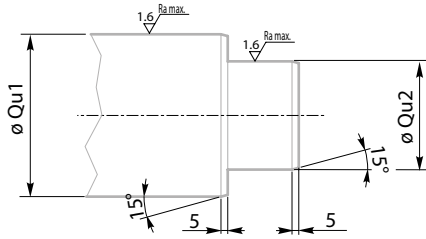
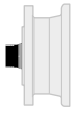


2520 - 3000



3510 - 4800





| | | RE - RA | | GB - GBA | |
|-------------------|-----|---------|--------|----------|--------|
| | | 6000 | 8000 | 12010 | 16000 |
| | | H6Q | HQ | HQ | HQ |
| HQ H6Q | Q1 | 155 H7 | 155 H7 | 190 H7 | 190 H7 |
| | Q2 | 85 F8 | 85 F8 | 90 H7 | 90 H7 |
| | Q3 | 125 | 125 | 190 | 190 |
| | Q4 | 70 | 70 | 40 | 40 |
| | Q5 | 195 f7 | 195 f7 | 240 f7 | 240 f7 |
| | Q6 | 1/8"G | 1/8"G | 1/8"G | 1/8"G |
| | Q7 | 107 | 107 | 160 | 160 |
| | Qu1 | 155 g6 | 155 g6 | 190 g6 | 190 g6 |
| | Qu2 | 85 f6 | 85 f6 | 90 f6 | 90 f6 |

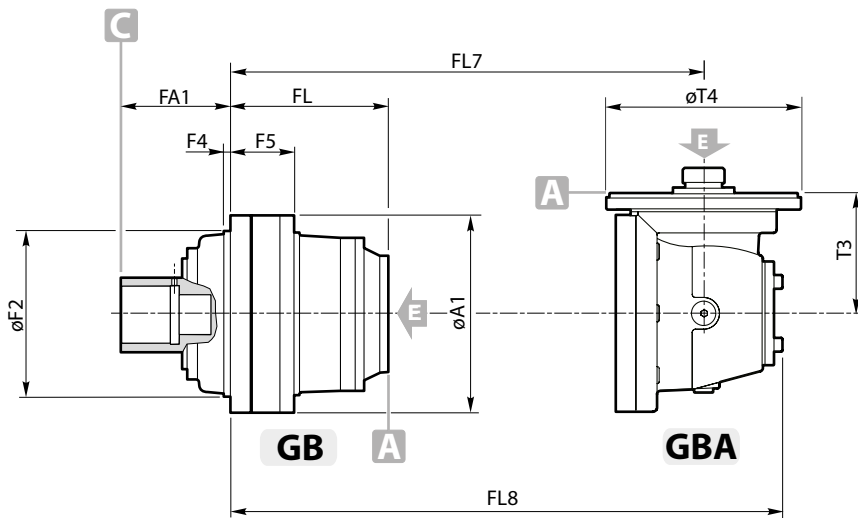
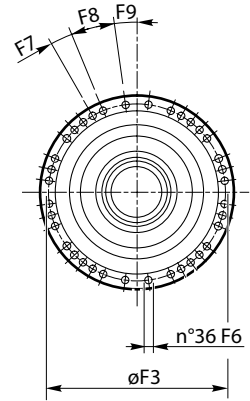
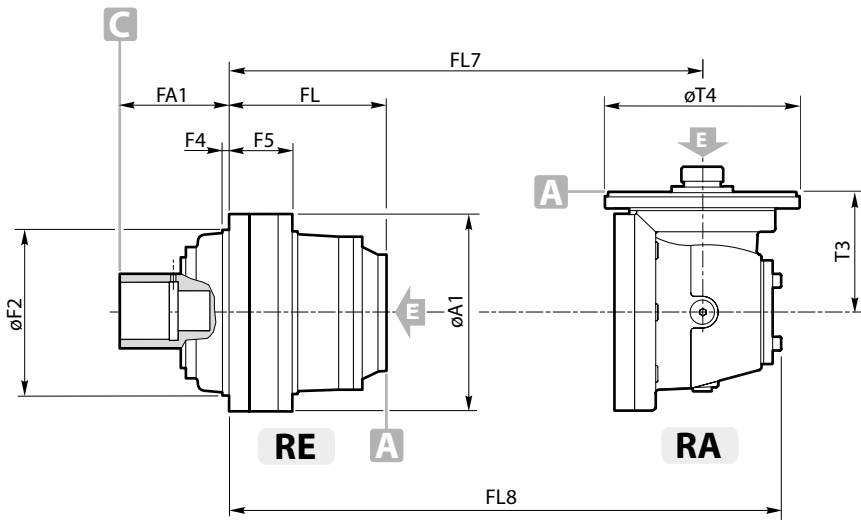
| | | RE - RA | | GB - GBA | |
|---------------------|-----|---------|--------|----------|--------|
| | | 6000 | 8000 | 12010 | 16000 |
| | | H6Q1 | HQ1 | HQ1 | HQ1 |
| HQ1 H6Q1 | Q1 | 180 H7 | 180 H7 | 210 H7 | 210 H7 |
| | Q2 | 110 H7 | 110 H7 | 110 H7 | 110 H7 |
| | Q3 | 183 | 183 | 210 | 210 |
| | Q4 | 70 | 70 | 50 | 50 |
| | Q5 | 240 f7 | 240 f7 | 260 f7 | 260 f7 |
| | Q6 | 1/8"G | 1/8"G | 1/8"G | 1/8"G |
| | Q7 | 164 | 164 | 187 | 187 |
| | Qu1 | 180 g6 | 180 g6 | 210 g6 | 210 g6 |
| | Qu2 | 110 f6 | 110 f6 | 110 f6 | 110 f6 |

| | stages | RE - RA | | GB - GBA | |
|------------|------------|-------------|--------|-------------|--------|
| | | 6000 | 8000 | 12010 | 16000 |
| | | H6 | H | H | H |
| A1 | | 490 | 490 | 610 | 610 |
| F2 | | 410 h8 | 410 h8 | 515 h8 | 515 h8 |
| F3 | | 445 | 445 | 560 | 560 |
| F4 | | 15 | 15 | 20 | 20 |
| F5 | | 178.5 | 181.5 | 230 | 230 |
| F6 | | Ø19 | Ø19 | Ø25 | Ø25 |
| | | M... - 12.9 | | M... - 10.9 | |
| | | M18 | M18 | M24 | M24 |
| F7 | | 7°30 | 7°30 | 15° | 15° |
| F8 | | 15° | 15° | 7°30' | 7°30' |
| F9 | | 7°30 | 7°30 | 7°30' | 7°30' |
| FA1 | Q | 240 | 240 | 300 | 300 |
| | Q1 | 298 | 298 | 330 | 330 |
| FL | 1 | 136.5 | 136.5 | 160.5 | 160.5 |
| | 2 | 305 | 390.5 | 410 | 427 |
| | 3 | 398 | 518.5 | 538 | 668 |
| | 4 | 456.5 | 603.5 | 623 | 761 |
| | 5 | — | 668 | 687.5 | 825.5 |
| FL7 | 2 | 390.5 | 390.5 | — | — |
| | 3 | 511 | 584.5 | 604 | 681 |
| | 4 | 520 | 660.5 | 680 | 874 |
| | 5 | — | — | 745 | 883 |
| | FL8 | 2 | 580.5 | 580.5 | — |
| 3 | | 639 | 712.5 | 732 | 871 |
| 4 | | 611 | 768.5 | 788 | 1002 |
| 5 | | — | — | 836 | 974 |
| G2 | | | — | — | — |
| G4 | | — | — | — | |
| G5 | | — | — | — | |
| T3 | 2 | 432 | 432 | — | — |
| | 3 | 310 | 310 | 310 | 432 |
| | 4 | 171 | 227 | 227 | 310 |
| | 5 | — | — | 171 | 171 |
| | T4 | 2 | 295 | 295 | — |
| 3 | | 293 | 293 | 293 | 295 |
| 4 | | 183 | 242 | 242 | 293 |
| 5 | | — | — | 183 | 183 |

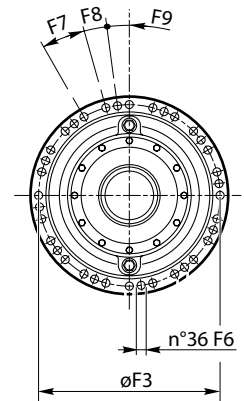


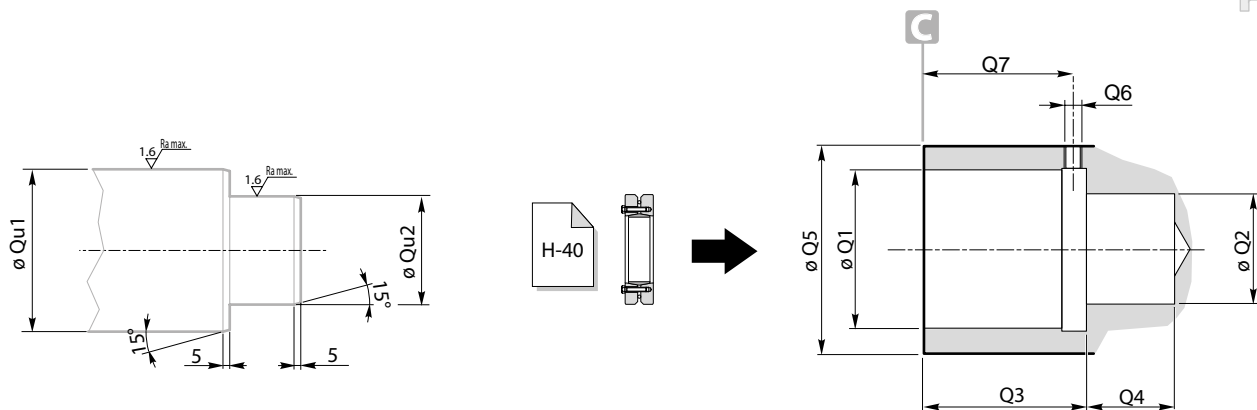
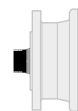


| | |
|------------|-------------|
| H6Q | 6000 |
| HQ | 8000 |



| | |
|-----------|----------------------|
| HQ | 12010 - 16000 |
|-----------|----------------------|





| | | RE - RA | | GB - GBA | |
|-------------------|------------|---------|--------|----------|--------|
| | | 6000L | 8000L | 12010L | 16000L |
| | | H6Q | HQ | HQ | HQ |
| HQ H6Q | Q1 | 155 H7 | 155 H7 | 190 H7 | 190 H7 |
| | Q2 | 85 F8 | 85 F8 | 90 H7 | 90 H7 |
| | Q3 | 125 | 125 | 190 | 190 |
| | Q4 | 70 | 70 | 40 | 40 |
| | Q5 | 195 f7 | 195 f7 | 240 f7 | 240 f7 |
| | Q6 | 1/8"G | 1/8"G | 1/8"G | 1/8"G |
| | Q7 | 107 | 107 | 160 | 160 |
| | Qu1 | 155 g6 | 155 g6 | 190 g6 | 190 g6 |
| | Qu2 | 85 f6 | 85 f6 | 90 f6 | 90 f6 |

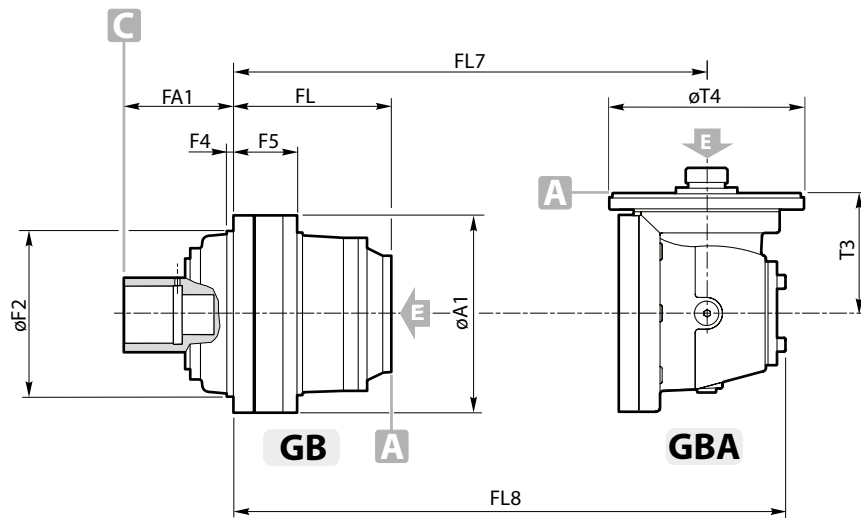
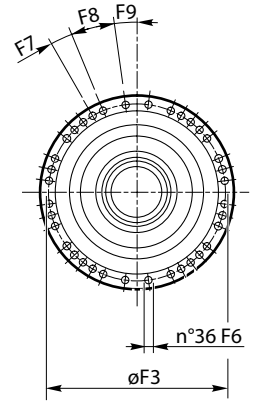
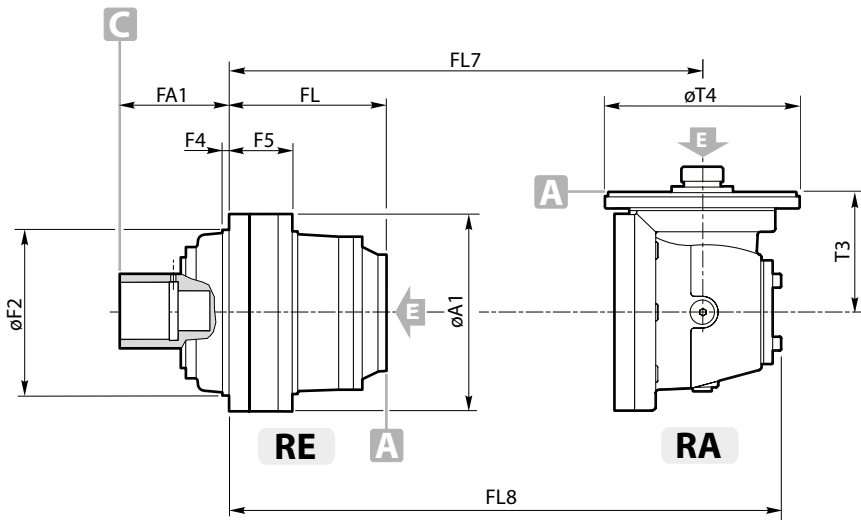
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|------------|------------|-------------|-----------|-------------|-----------|
| | | 6000L | 8000L | 12010L | 16000L |
| | | H6 | H | H | H |
| A1 | stages | 490 | 490 | 610 | 610 |
| F2 | | 410 h8 | 410 h8 | 515 h8 | 515 h8 |
| F3 | | 445 | 445 | 560 | 560 |
| F4 | | 15 | 15 | 20 | 20 |
| F5 | | 178.5 | 181.5 | 230 | 230 |
| F6 | | $\phi 19$ | $\phi 19$ | $\phi 25$ | $\phi 25$ |
| | | M... - 12.9 | | M... - 10.9 | |
| | | M18 | M18 | M24 | M24 |
| F7 | | 7°30' | 7°30' | 15° | 15° |
| F8 | | 15° | 15° | 7°30' | 7°30' |
| F9 | | 7°30' | 7°30' | 7°30' | 7°30' |
| FA1 | Q | 240 | 240 | 300 | 300 |
| | Q1 | 298 | 298 | 330 | 330 |
| FL | 1 | 136.5 | 136.5 | 160.5 | 160.5 |
| | 2 | 305 | 390.5 | 410 | 427 |
| | 3 | 398 | 501.5 | 521 | 619 |
| | 4 | 462.5 | 568.5 | 588 | 704 |
| | 5 | — | 621 | 640.5 | 768.5 |
| FL7 | 2 | 390.5 | 390.5 | — | — |
| | 3 | 511 | 584.5 | 604 | 681 |
| | 4 | 520 | 643.5 | 663 | 761 |
| | 5 | — | — | 710 | 826 |
| | FL8 | 2 | 580.5 | 580.5 | — |
| 3 | | 639 | 712.5 | 732 | 871 |
| 4 | | 611 | 751.5 | 771 | 869 |
| 5 | | — | — | 801 | 917 |
| G2 | | | 432 | 432 | — |
| G4 | | 310 | 310 | 310 | 432 |
| G5 | | 171 | 227 | 227 | 310 |
| T3 | 2 | — | — | 171 | 171 |
| | 3 | 295 | 295 | — | — |
| | 4 | 293 | 293 | 293 | 295 |
| | 5 | 183 | 242 | 242 | 293 |
| T4 | 2 | — | — | 183 | 183 |
| | 3 | 293 | 293 | 293 | 295 |
| | 4 | 183 | 242 | 242 | 293 |
| | 5 | — | — | 183 | 183 |

| | | RE - RA | | GB - GBA | |
|---------------------|------------|---------|--------|----------|--------|
| | | 6000L | 8000L | 12010L | 16000L |
| | | H6Q1 | HQ1 | HQ1 | HQ1 |
| HQ1 H6Q1 | Q1 | 180 H7 | 180 H7 | 210 H7 | 210 H7 |
| | Q2 | 110 H7 | 110 H7 | 110 H7 | 110 H7 |
| | Q3 | 183 | 183 | 210 | 210 |
| | Q4 | 70 | 70 | 50 | 50 |
| | Q5 | 240 f7 | 240 f7 | 260 f7 | 260 f7 |
| | Q6 | 1/8"G | 1/8"G | 1/8"G | 1/8"G |
| | Q7 | 164 | 164 | 187 | 187 |
| | Qu1 | 180 g6 | 180 g6 | 210 g6 | 210 g6 |
| | Qu2 | 110 f6 | 110 f6 | 110 f6 | 110 f6 |

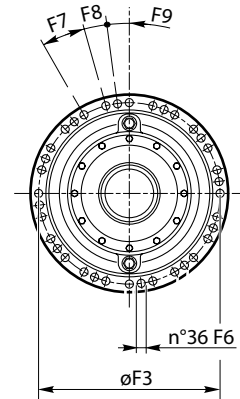


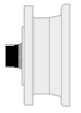
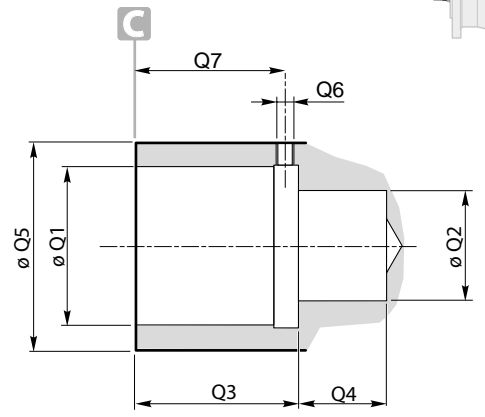
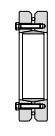
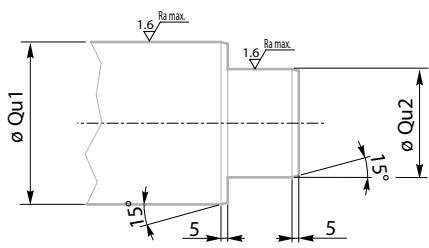


| | |
|------------|--------------|
| H6Q | 6000L |
| HQ | 8000L |



| | |
|-----------|------------------------|
| HQ | 12010L - 16000L |
|-----------|------------------------|

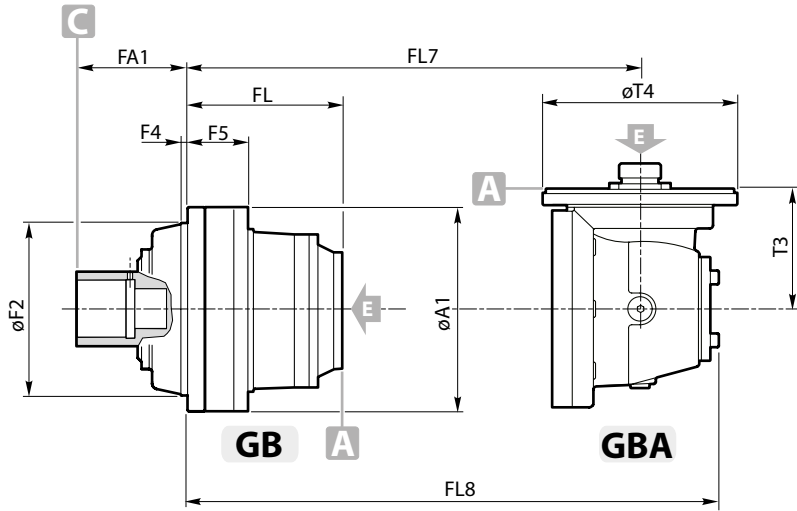




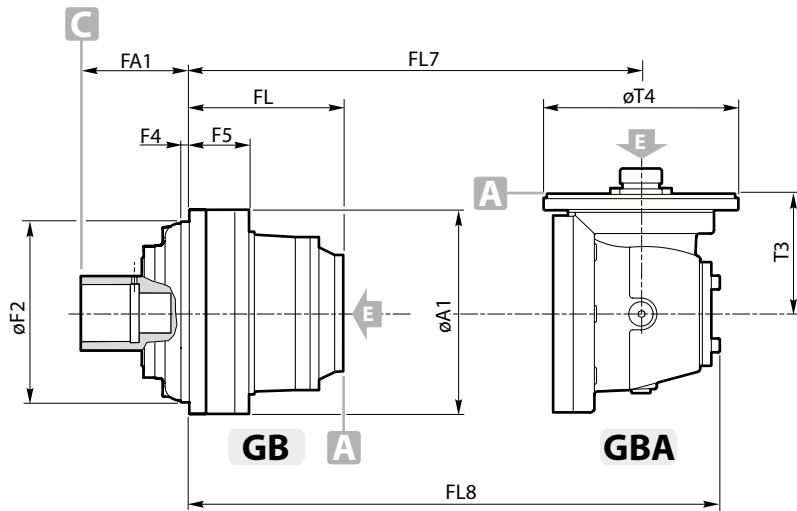
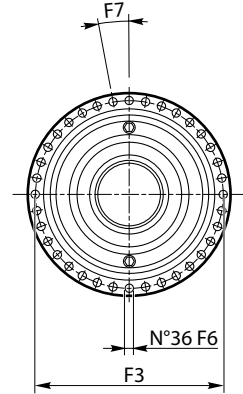
| | | GB - GBA | | | | | | | |
|----|-----|----------|--------|--------|--------|--------|--------|--------|--------|
| | | 21000 | 26000 | 31000 | 40000 | 45000 | 53000 | 61000 | 85000 |
| HQ | Q1 | 230 H7 | 230 H7 | 295 H7 | 295 H7 | 300 H7 | 320 H7 | 320 H7 | 380 H7 |
| | Q2 | 120 H7 | 120 H7 | 210 H7 | 210 H7 | 210 H7 | 190 H7 | 190 H7 | 260 H7 |
| | Q3 | 230 | 230 | 300 | 300 | 300 | 335 | 335 | 335 |
| | Q4 | 101 | 101 | 155 | 155 | 155 | 175 | 175 | 170 |
| | Q5 | 280 f7 | 280 f7 | 360 f7 | 360 f7 | 380 f7 | 390 f7 | 390 f7 | 460 f7 |
| | Q6 | 1/8"G | 1/8"G | 1/8"G | 1/8"G | 1/8"G | 1/4"G | 1/4"G | 1/4"G |
| | Q7 | 225 | 225 | 265 | 265 | 265 | 305 | 305 | 323 |
| | Qu1 | 230 g6 | 230 g6 | 295 g6 | 295 g6 | 300 g6 | 320 h6 | 320 h6 | 380 g6 |
| | Qu2 | 120 f6 | 120 f6 | 210 f6 | 210 f6 | 210 f6 | 190 f6 | 190 f6 | 260 f6 |

| | | GB - GBA | | | | | | | |
|-----|--------|-------------|--------|--------|--------|--------|--------|--------|--------|
| | stages | 21000 | 26000 | 31000 | 40000 | 45000 | 53000 | 61000 | 85000 |
| A1 | | 710 | 710 | 870 | 870 | 870 | 1090 | 1090 | 1090 |
| F2 | | 600 h8 | 600 h8 | 760 h8 | 760 h8 | 760 h8 | 930 h8 | 930 h8 | 930 h8 |
| F3 | | 660 | 660 | 810 | 810 | 810 | 1020 | 1020 | 1020 |
| F4 | | 23.5 | 23.5 | 35 | 35 | 35 | 50 | 50 | 50 |
| F5 | | 196 | 216 | 250 | 290 | 290 | 305 | 305 | 353 |
| F6 | | Ø28 | Ø28 | Ø32 | Ø32 | Ø32 | Ø39 | Ø39 | Ø39 |
| | | M... - 10.9 | | | | | | | |
| | | M27 | M27 | M30 | M30 | M30 | M36 | M36 | M36 |
| F7 | | 10° | 10° | 10° | 10° | 10° | 10° | 10° | 10° |
| FA1 | | 440 | 440 | 490 | 490 | 490 | 550 | 550 | 550 |
| FL | 1 | 138 | 158 | 180 | 220 | 220 | 225 | 225 | 273 |
| | 2 | 443 | 463 | 588.5 | 628.5 | 628.5 | 700 | 700 | 768 |
| | 3 | 611.5 | 717 | 838 | 878 | 895 | 1005 | 1005 | 1073 |
| | 4 | 704.5 | 845 | 966 | 1006 | 1136 | 1173.5 | 1173.5 | 1327 |
| | 5 | 763 | 930 | 1051 | 1091 | 1229 | 1266.5 | 1266.5 | 1455 |
| FL7 | 3 | 697 | 717 | — | — | — | — | — | — |
| | 4 | 817.5 | 911 | 1032 | 1072 | 1149 | 1259 | 1259 | 1327 |
| | 5 | 826.5 | 987 | 1108 | 1148 | 1342 | 1379.5 | 1379.5 | 1521 |
| | 6 | — | — | — | — | — | — | 1388.5 | 1597 |
| FL8 | 3 | 887 | 907 | — | — | — | — | — | — |
| | 4 | 945.5 | 1039 | 1160 | 1200 | 1339 | 1449 | 1449 | 1517 |
| | 5 | 917.5 | 1095 | 1216 | 1256 | 1470 | 1507.5 | 1507.5 | 1649 |
| | 6 | — | — | — | — | — | — | 1479.5 | 1705 |
| T3 | 3 | 432 | 432 | — | — | — | — | — | — |
| | 4 | 310 | 310 | 310 | 310 | 432 | 432 | 432 | 432 |
| | 5 | 171 | 227 | 227 | 227 | 310 | 310 | 310 | 310 |
| | 6 | — | — | — | — | — | — | 171 | 171 |
| T4 | 3 | 295 | 295 | — | — | — | — | — | — |
| | 4 | 293 | 293 | 293 | 293 | 295 | 295 | 295 | 295 |
| | 5 | 183 | 242 | 242 | 242 | 293 | 293 | 293 | 293 |
| | 6 | — | — | — | — | — | — | 183 | 183 |

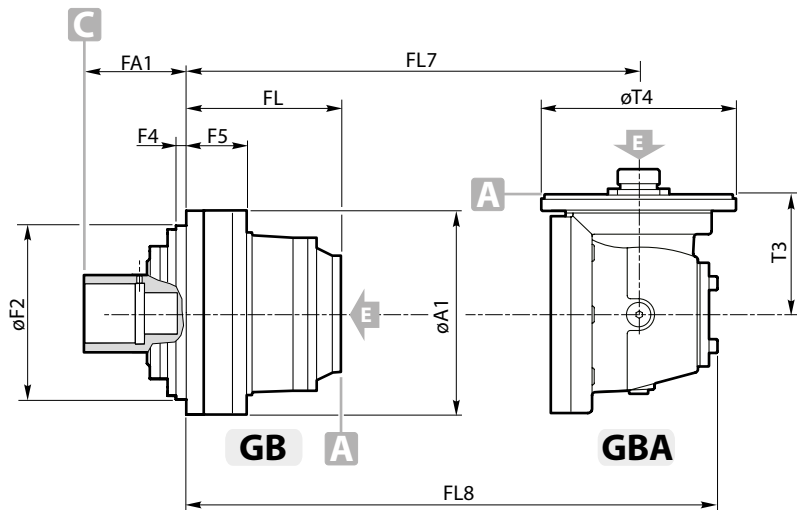
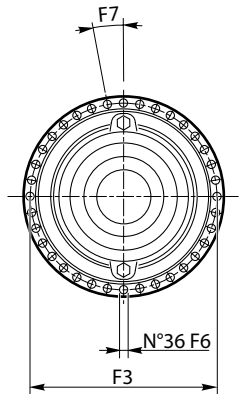




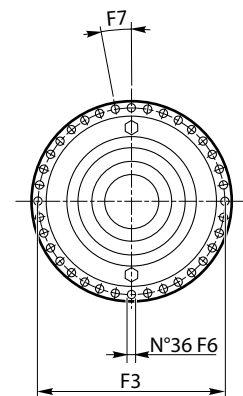
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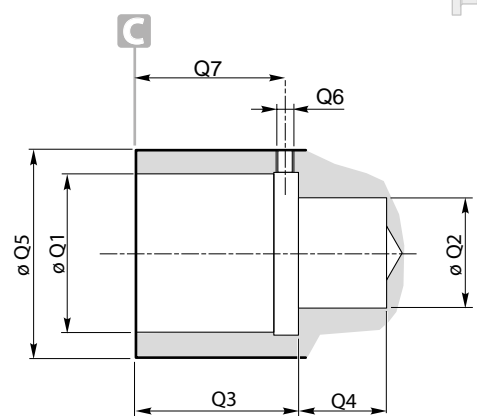
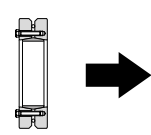
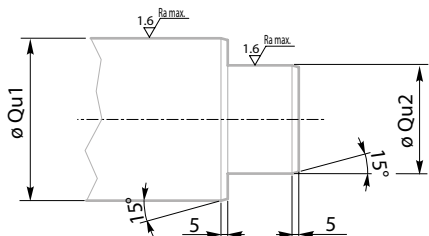
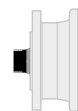


31000 ÷ 45000



53000 ÷ 85000

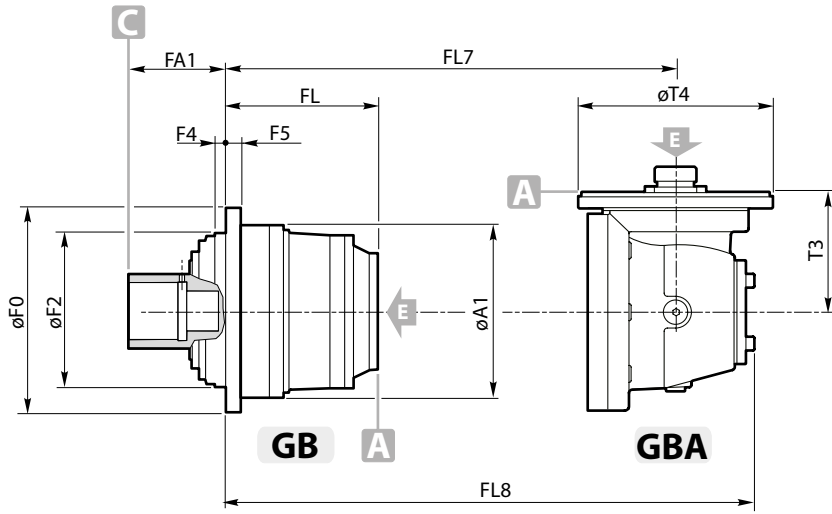




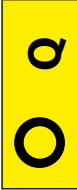
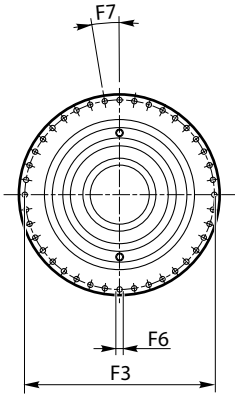
| | | GB - GBA | | | | |
|-----------|------------|----------|--------|--------|--------|--------|
| | | 110000 | 130000 | 150000 | 205000 | 235000 |
| HQ | Q1 | 450 H7 | 450 H7 | 450 H7 | 600 H7 | 600 H7 |
| | Q2 | 320 H7 | 320 H7 | 320 H7 | 590 H7 | 590 H7 |
| | Q3 | 450 | 450 | 450 | 277 | 277 |
| | Q4 | 150 | 150 | 150 | 282 | 282 |
| | Q5 | 560 f7 | 560 f7 | 560 f7 | 700 f7 | 700 f7 |
| | Q6 | 1/4"G | 1/4"G | 1/4"G | — | — |
| | Q7 | 420 | 420 | 420 | — | — |
| | Qu1 | 450 h6 | 450 h6 | 450 h6 | 600 g6 | 600 g6 |
| | Qu2 | 320 f6 | 320 f6 | 320 f6 | 590 g6 | 590 g6 |

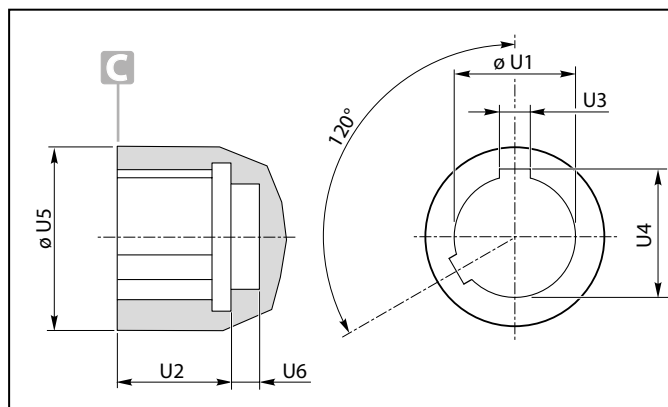
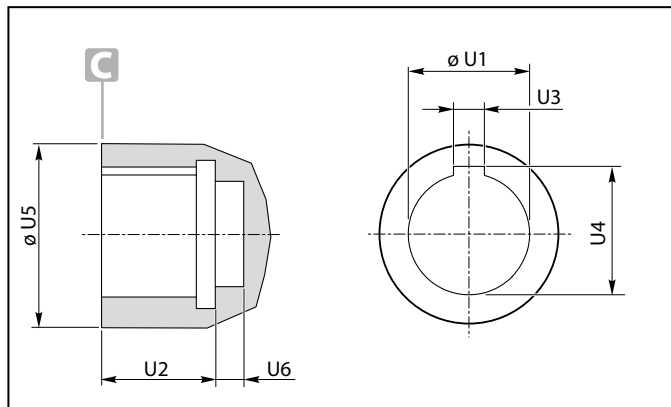


| | | GB - GBA | | | | |
|------------|--------|-----------|-----------|-----------|-----------|-----------|
| | | 110000 | 130000 | 150000 | 205000 | 235000 |
| A1 | stages | 1320 | 1320 | 1320 | 1630 | 1630 |
| F0 | | 1538 | 1538 | 1538 | 1880 | 1880 |
| F2 | | 1150 h9 | 1150 h9 | 1150 h9 | 1440 h8 | 1440 h8 |
| F3 | | 1450 | 1450 | 1450 | 1780 | 1780 |
| F4 | | 80 | 80 | 80 | 80 | 80 |
| F5 | | 110 | 110 | 110 | 110 | 110 |
| F6 | | Ø44 (x40) | Ø44 (x40) | Ø44 (x40) | Ø44 (x48) | Ø44 (x48) |
| | | M42 | M42 | M42 | M42 | M42 |
| F7 | | 9° | 9° | 9° | 7°30' | 7°30' |
| FA1 | | 722.5 | 722.5 | 722.5 | 675 | 675 |
| FL | 1 | 315 | 315 | 315 | 303 | 303 |
| | 2 | 966.5 | 966.5 | 966.5 | 1016 | 1016 |
| | 3 | 1375 | 1375 | 1375 | 1511 | 1590.5 |
| | 4 | 1624.5 | 1641.5 | 1721.5 | 1852 | 1986.5 |
| | 5 | 1752.5 | 1882.5 | 1890 | 2101.5 | 2236 |
| FL7 | 5 | 1818.5 | 1895.5 | — | — | — |
| | 6 | 1894.5 | 2088.5 | — | — | — |
| FL8 | 5 | 1946.5 | 2085.5 | — | — | — |
| | 6 | 2002.5 | 2216.5 | — | — | — |
| T3 | 5 | 310 | 432 | — | — | — |
| | 6 | 227 | 310 | — | — | — |
| T4 | 5 | 293 | 295 | — | — | — |
| | 6 | 242 | 293 | — | — | — |



110000 ÷ 235000





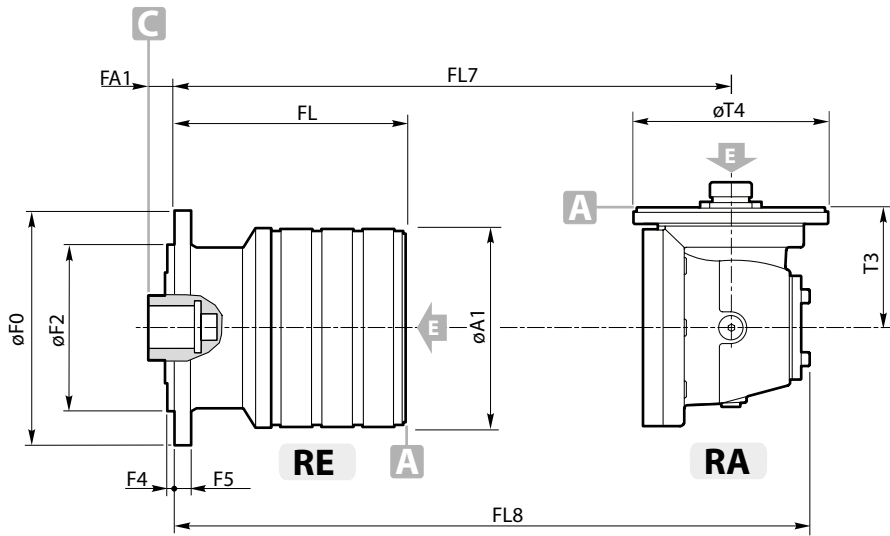
| | | RE - RA | | | | |
|----|----|---------|-------|-----|-----|-----|
| | | 110 | 210 | 310 | 510 | 610 |
| TU | U1 | 40 H7 | 40 H7 | — | — | — |
| | U2 | 49 | 49 | — | — | — |
| | U3 | 12 | 12 | — | — | — |
| | U4 | 43.3 | 43.3 | — | — | — |
| | U5 | 60 | 60 | — | — | — |
| | U6 | 15 | 15 | — | — | — |

| | | RE - RA | | |
|----|----|---------|-------|-------|
| | | 310 | 510 | 610 |
| NU | U1 | 60 H7 | 60 H7 | 60 H7 |
| | U2 | 60 | 60 | 60 |
| | U3 | 18 | 18 | 18 |
| | U4 | 64.5 | 64.5 | 64.5 |
| | U5 | 85 | 85 | 85 |
| | U6 | 15 | 15 | 15 |

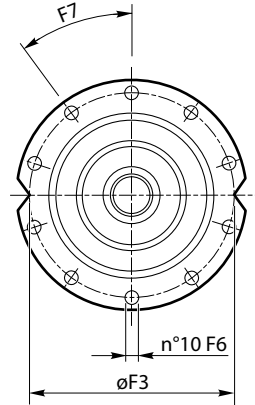
| NU2 | U1 | — | — | 70 G6 | 70 G6 | 70 G6 |
|-----|----|---|---|-------|-------|-------|
| | U2 | — | — | 75 | 75 | 75 |
| | U3 | — | — | 20 | 20 | 20 |
| | U4 | — | — | 75 | 75 | 75 |
| | U5 | — | — | 99.5 | 99.5 | 99.5 |
| | U6 | — | — | 20 | 20 | 20 |

| | | RE - RA | | | | | | | | | |
|-----|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 110 | | 210 | | 310 | | 510 | | 610 | |
| | | TU | TU | NU | NU2 | NU | NU2 | NU | NU2 | NU | NU2 |
| A1 | | 186 | 186 | 244 | 244 | 244 | 244 | 244 | 244 | 244 | 244 |
| F0 | | 219 | 219 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 |
| F2 | | 155 h7 | 155 h7 | 168 f7 | 168 f7 | 168 f7 | 168 f7 | 168 f7 | 168 f7 | 168 f7 | 168 f7 |
| F3 | | 194 | 194 | 195 | 190 | 195 | 190 | 195 | 190 | 195 | 190 |
| F4 | | 7 | 7 | 20.5 | 13.5 | 20.5 | 13.5 | 20.5 | 13.5 | 20.5 | 13.5 |
| F5 | | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| F6 | | Ø11 | Ø11 | Ø12.5 | Ø14.5 | Ø12.5 | Ø14.5 | Ø12.5 | Ø14.5 | Ø12.5 | Ø14.5 |
| | | M10 | M10 | M12 | M14 | M10 | M14 | M10 | M14 | M10 | M14 |
| F7 | | 36° | 36° | 36° | 45° | 36° | 45° | 36° | 45° | 36° | 45° |
| F8 | | — | — | — | 22°30' | — | 22°30' | — | 22°30' | — | 22°30' |
| FA1 | | 25 | 25 | 52 | 130 | 52 | 130 | 52 | 130 | 52 | 130 |
| FL | 1 | 102 | 114 | 133 | 133 | 151 | 151 | 151 | 151 | 151 | 151 |
| | 2 | 145 | 157 | 185.5 | 185.5 | 215.5 | 215.5 | 209.5 | 209.5 | 209.5 | 209.5 |
| | 3 | 188 | 200 | 228.5 | 228.5 | 258.5 | 258.5 | 262 | 262 | 262 | 262 |
| | 4 | 231 | 243 | 271.5 | 271.5 | 301.5 | 301.5 | 305 | 305 | 305 | 305 |
| FL7 | 2 | 183 | 195 | 255 | 255 | 273 | 273 | 273 | 273 | 273 | 273 |
| | 3 | 226 | 238 | 266.5 | 266.5 | 296.5 | 296.5 | 331.5 | 331.5 | 331.5 | 331.5 |
| | 4 | 269 | 281 | 309.5 | 309.5 | 339.5 | 339.5 | 343 | 343 | 343 | 343 |
| FL8 | 2 | 257.5 | 269.5 | 346 | 346 | 364 | 364 | 364 | 364 | 364 | 364 |
| | 3 | 300.5 | 312.5 | 341 | 341 | 371 | 371 | 422.5 | 422.5 | 422.5 | 422.5 |
| | 4 | 343.5 | 355.5 | 384 | 384 | 414 | 414 | 417.5 | 417.5 | 417.5 | 417.5 |
| T3 | 2 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 |
| | 3 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 171.5 | 171.5 | 171.5 | 171.5 |
| | 4 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| T4 | 2 | 184 | 184 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 |
| | 3 | 184 | 184 | 184 | 184 | 184 | 184 | 183 | 183 | 183 | 183 |
| | 4 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |

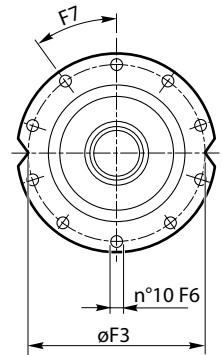
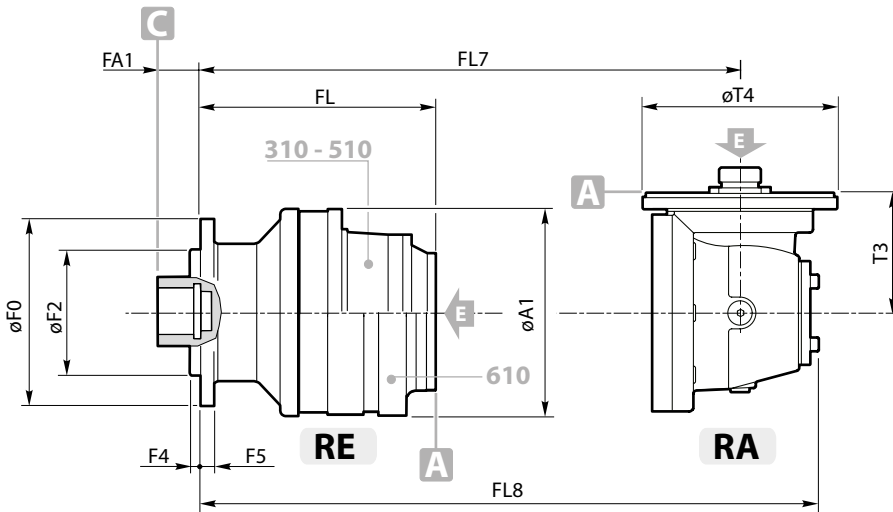




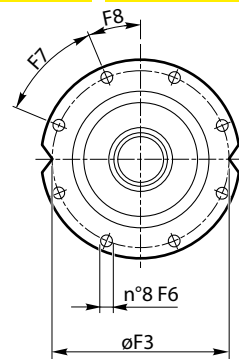
TU 110 - 210

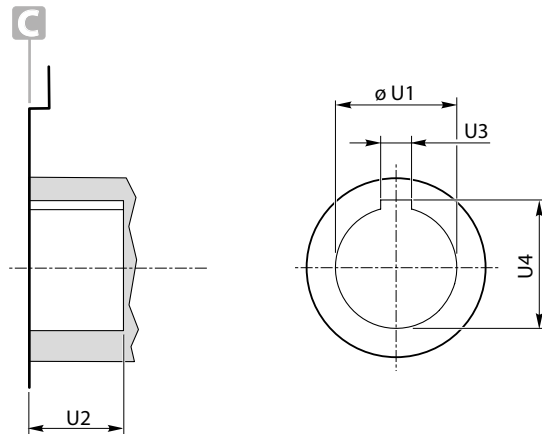


NU 310 - 510 - 610



NU2 310 - 510 - 610

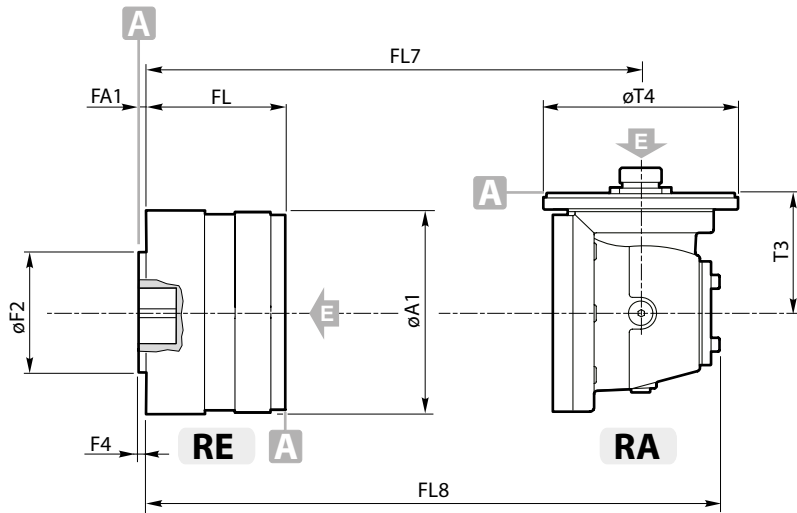




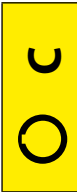
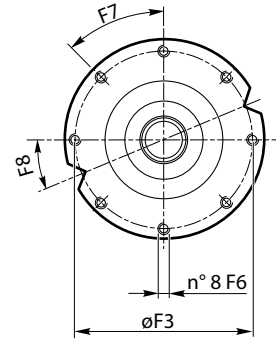
| | | RE - RA | |
|----|----|---------|-------|
| | | 110 | 210 |
| FC | U1 | 40 H7 | 40 H7 |
| | U2 | 38 | 38 |
| | U3 | 12 | 12 |
| | U4 | 43.3 | 43.3 |

| | | RE - RA | |
|-----|--------|---------|--------|
| | stages | 110 | 210 |
| A1 | | 186 | 186 |
| F2 | | 110 h7 | 110 h7 |
| F3 | | 165 | 165 |
| F4 | | 5 | 5 |
| F6 | | Ø10.5 | Ø10.5 |
| F7 | | 45° | 45° |
| F8 | | 22.5° | 22.5° |
| FA1 | | 5 | 5 |
| FL | 1 | 59 | 71 |
| | 2 | 102 | 114 |
| | 3 | 145 | 157 |
| | 4 | 188 | 200 |
| FL7 | 2 | 140 | 152 |
| | 3 | 183 | 195 |
| | 4 | 226 | 238 |
| FL8 | 2 | 214.5 | 226.5 |
| | 3 | 257.5 | 269.5 |
| | 4 | 300.5 | 312.5 |
| T3 | 2 | 113.8 | 113.8 |
| | 3 | 113.8 | 113.8 |
| | 4 | 113.8 | 113.8 |
| T4 | 2 | 184 | 184 |
| | 3 | 184 | 184 |
| | 4 | 184 | 184 |





110 - 210



I

ENTRATE, ACCESSORI, POSIZIONI DI MONTAGGIO, PESI E VOLUMI

Le tavole degli accessori comprendono flange di adattamento e freni. In questa sezione sono inoltre rappresentate le varie posizioni di lavoro dei riduttori e le relative posizioni dei tappi di carico, scarico e livello olio e quelli di sfiato aria.

I pesi dei riduttori ed i volumi di olio sono puramente indicativi in quanto variano al variare del rapporto e degli accessori installati.

Qualora si desideri un'informazione precisa si contatti la rete vendita Dinamic Oil comunicando il codice di ordinazione in modo completo.

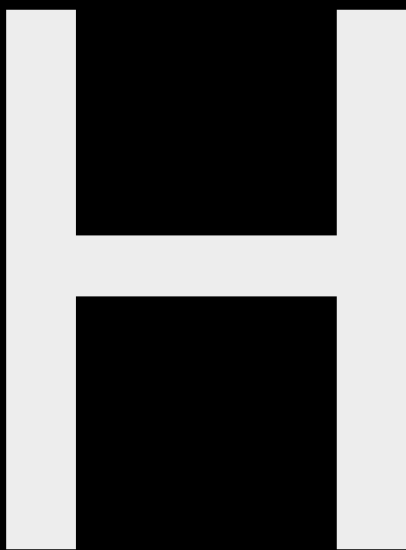
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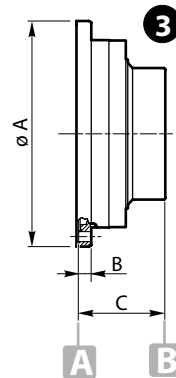
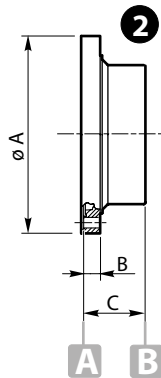
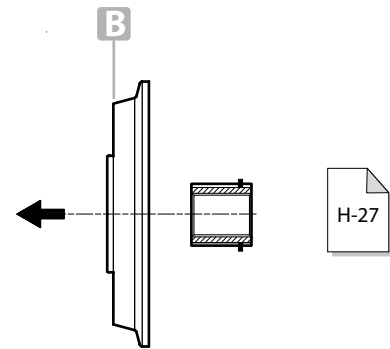
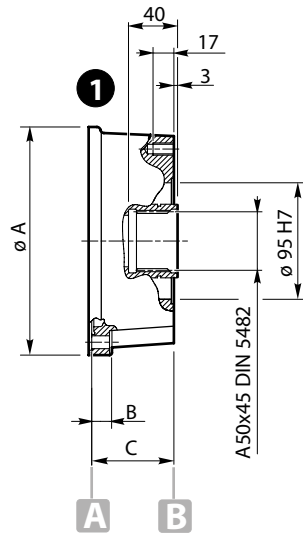
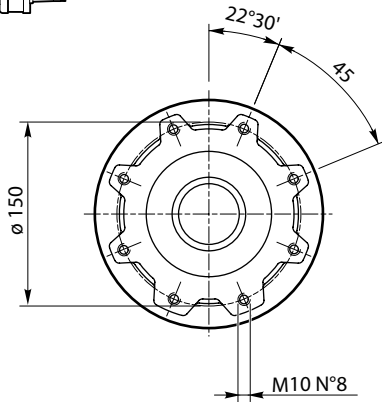
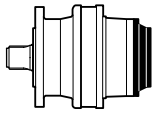
INPUTS, ACCESSORIES, WEIGHTS, VOLUMES AND MOUNTING POSITIONS

The accessory tables include motor, adapter flanges and brakes. This section also shows the gearboxes working positions options; the location for oil filling, oil level and oil drain ports, as well as breather plugs.

Weights and oil volumes are purely indicatives because they vary with respect to the installed accessories and the reduction ratio.

When a precise figure is needed please contact Dinamic Oil sales network specifying the complete ordering code.





1

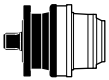
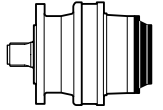
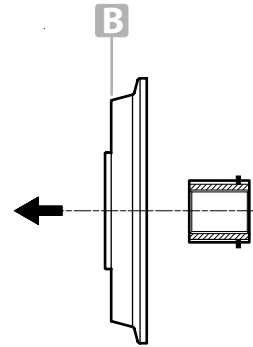
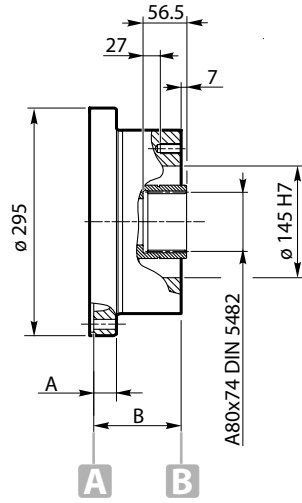
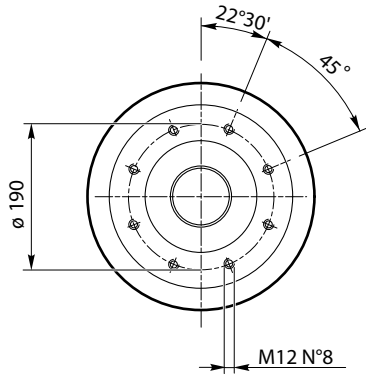
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| RE 211 - 212 - 213 - 214 | | | |
| RE 241 - 242 - 243 - 244 | | | |
| RE 312 - 313 - 314 | | | |
| RE 512 - 513 - 514 | | | |
| RE 613 - 614 | | | |
| RE 813 - 814 | | | |
| RE 1023 - 1024 | | | |
| RE 1523 - 1524 | | | |
| RE 2004 | | | |
| RE 2524 | | | |
| RE 3004 | | | |
| RE 3514-4804 | | | |
| RE 6004L | | | |
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| CC30-CC120 | | | |

2

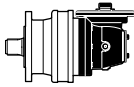
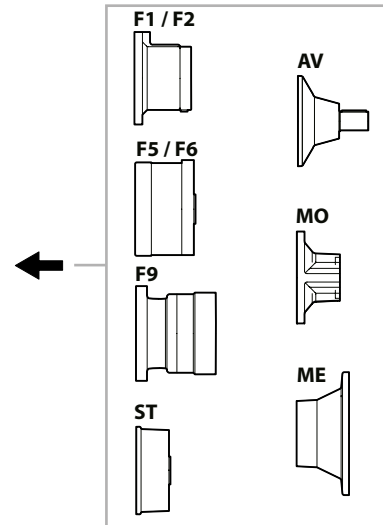
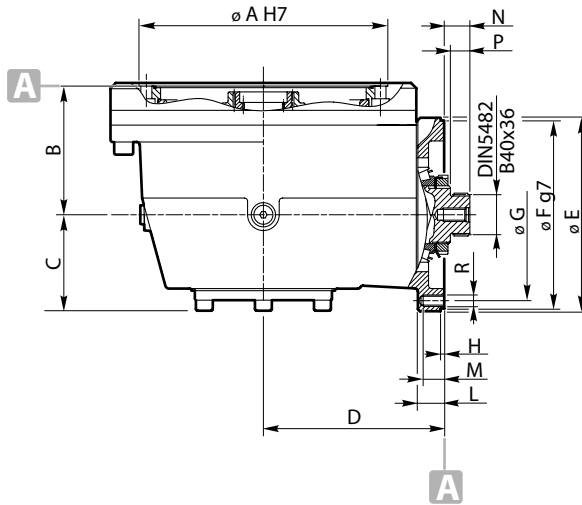
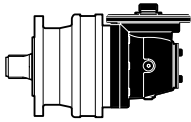
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| RE 311-511 | | | |
| RE 611 - 612 | | | |
| RE 812-1022 | | | |
| RE 1522-2003 | | | |
| RE 2523-3003 | | | |
| RE 3513-4803 | | | |
| RE 6003 - 6003L | | | |
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| RE 8004 - 8004L | | | |
| GB 12014 - 12014L | | | |
| GB 16004 - 16004L | | | |
| GB 21004 - 21005 | | | |
| GB 26005-31005 | | | |
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| GB 53005 | | | |
| CC350 | | | |

3

| ∅ A | B | C | Code |
|-------------------|----|-----|---------|
| 295 | 16 | 121 | K0700D2 |
| | | | |
| RE 811 | | | |
| RE 1021 | | | |
| RE 2522 | | | |
| RE 3002 | | | |
| RE 3512 | | | |
| RE 8003 - 8003L | | | |
| GB 12013 - 12013L | | | |
| GB 16003L | | | |
| GB 26004 | | | |
| GB 31004 | | | |
| GB 40004 | | | |
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| CC1000 | | | |
| CC600 | | | |



| | A | B | Code |
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| RE 2522 | | | |
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| GB 12013 - 12013L | 30 | 114 | |
| GB 16003L | | | |
| GB 26004 | | | |
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| CC1000 | 61 | 145 | |

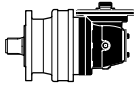
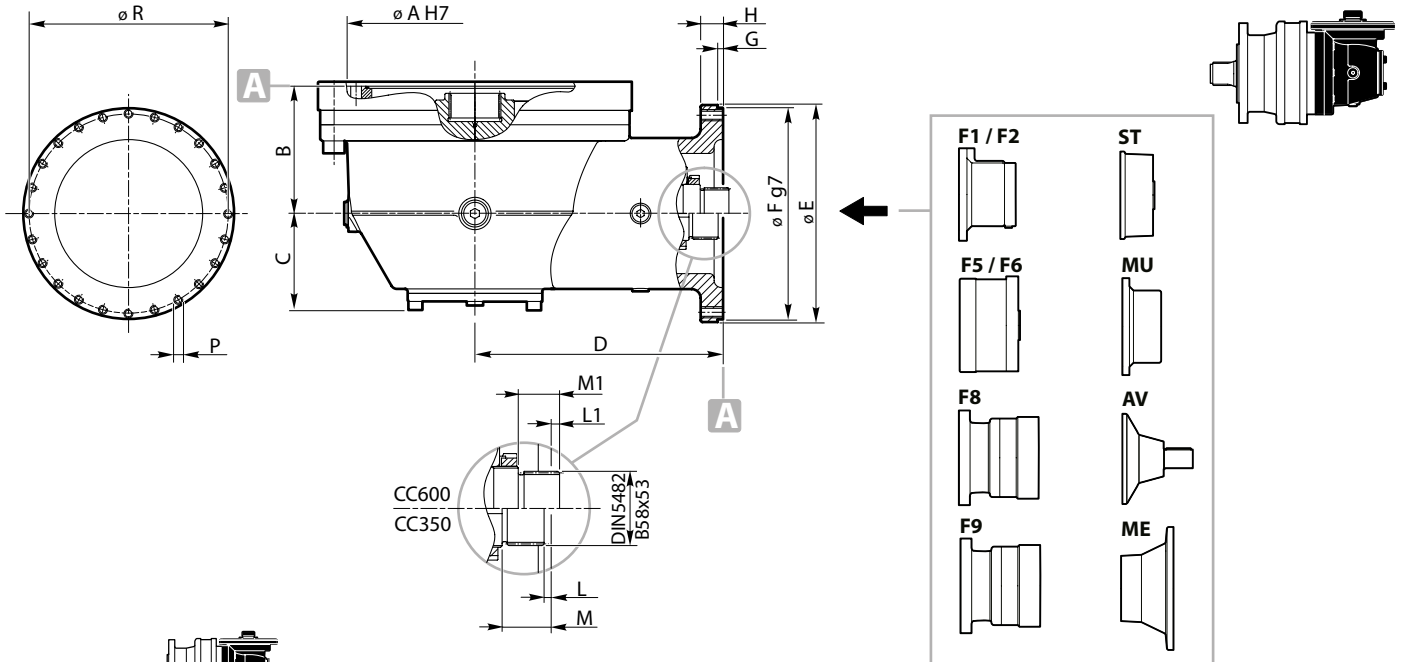


CC30
110/210/240

| | øA | B | C | D | øE | øF | øG | H | L | N | P | R |
|--|-----|----|------|-------|-----|-----|-----|---|------|-------|-------|-------------------|
| RA 112-113-114 RA 212-213-214 RA 242-243-244 RA 313-314 RA 513-514 RA 814 RA 1024 RA 1524 RA 2004L | 178 | 84 | 71.5 | 113.8 | 184 | 178 | 165 | 4 | 15.7 | 23.75 | 18.25 | N°8-M10 AT 45° |

CC120
310/510/610

| | øA | B | C | D | øE | øF | øG | H | L | M | P | R |
|---|-----|-----|----|-------|-----|-----|-----|-----|----|-------|------|-------------------|
| RA 312 RA 512-612 RA 613-813 RA 1023 RA 1523 RA 2003-2003L RA 2524 RA 3004 RA 3514 RA 4804 RA 6004-6004L GBA 12015-12015L GBA 16005-16005L GBA 21005 | 236 | 122 | 91 | 171.5 | 183 | 178 | 165 | 3.5 | 25 | 24.25 | 18.5 | N°8-M10 AT 45° |

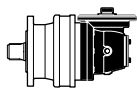
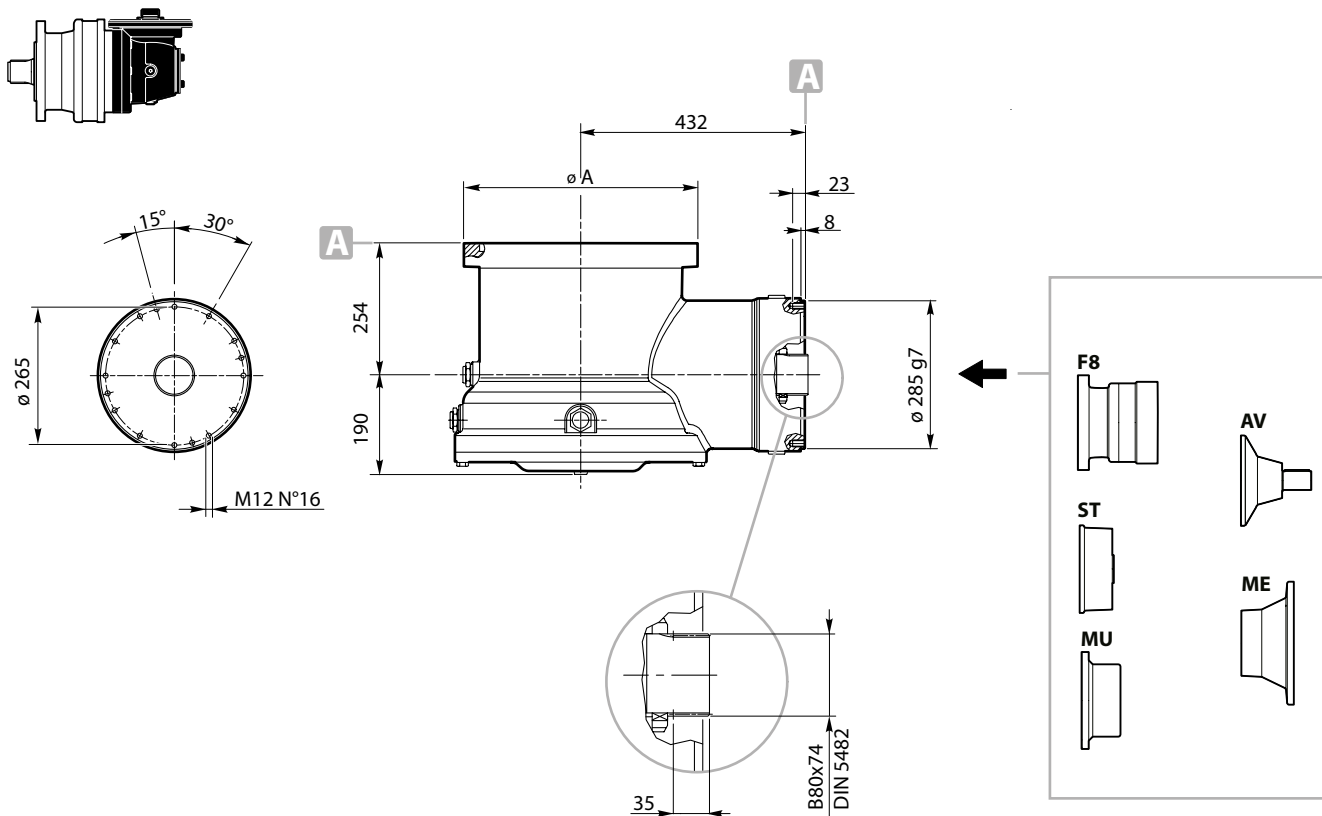


| | ϕA | B | C | D | ϕE | ϕF | G | H | L | M | P | R |
|---|----------|-----|-----|--------|----------|----------|---|----|-----|----|------------------------|-----|
| CC350 810/1020 RA 812 RA 1022 RA 2523 RA 3023 RA 3523 RA 8004-8004L GBA 12014-12014L GB 16004L GBA 26005 GBA 31005 GBA 40005 | 285 | 142 | 108 | 276.75 | 242 | 236 | 6 | 25 | 5,5 | 38 | N°24- M10 AT 15° | 222 |

| | ϕA | B | C | D | ϕE | ϕF | G | H | L1 | M1 | P | R |
|--|----------|-----|-----|-----|----------|----------|---|----|-----|------|------------------------|-----|
| CC600 810/1020 RA 812 RA 1022 RA 2523 RA 3023 RA 3523 RA 8004 GBA 12014 GBA 16004 GBA 26005 GBA 31005 GBA 40005 | 285 | 198 | 128 | 310 | 293 | 285 | 8 | 27 | 6,5 | 25,5 | N°12- M10 AT 30° | 265 |

| | ϕA | B | C | D | ϕE | ϕF | G | H | L1 | M1 | P | R |
|--|----------|-----|-----|-----|----------|----------|---|----|-----|------|------------------------|-----|
| CC600 1520/2000 RA 1522 RA 2002 RA 4803 RA 6003-6003L GBA 16014 GBA 21004 GBA 45005 GBA 53005 GBA 61005 | 340 | 206 | 128 | 310 | 293 | 285 | 8 | 27 | 6,5 | 25,5 | N°12- M10 AT 30° | 265 |

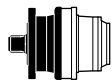
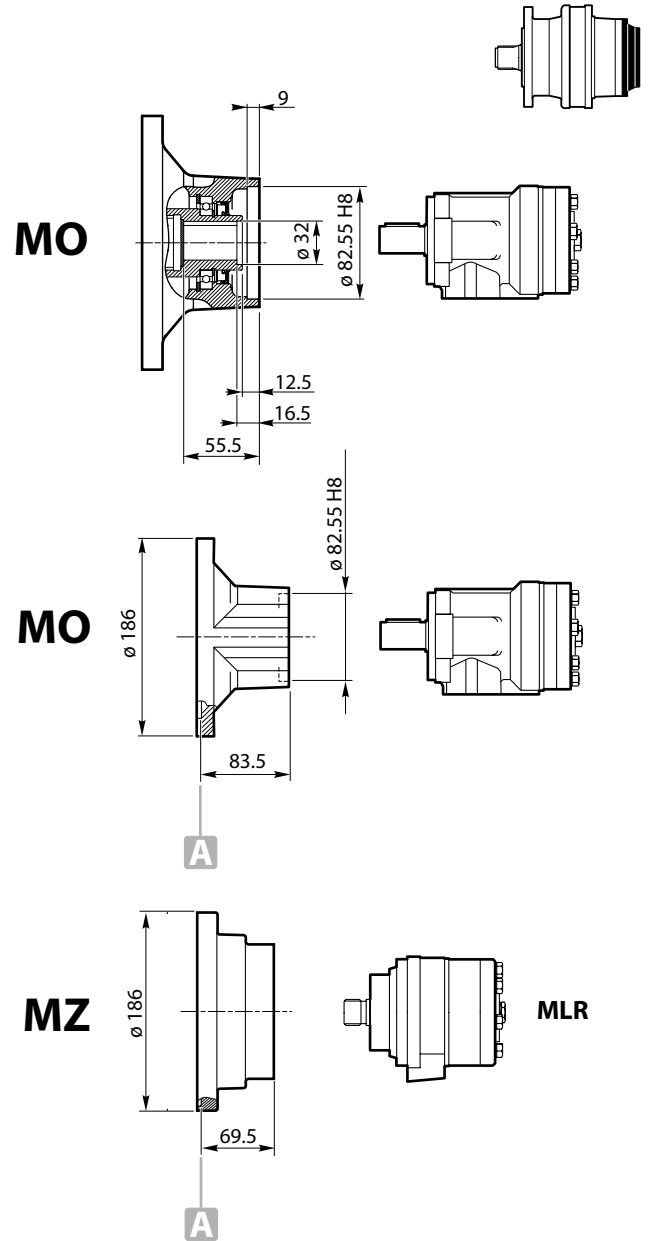
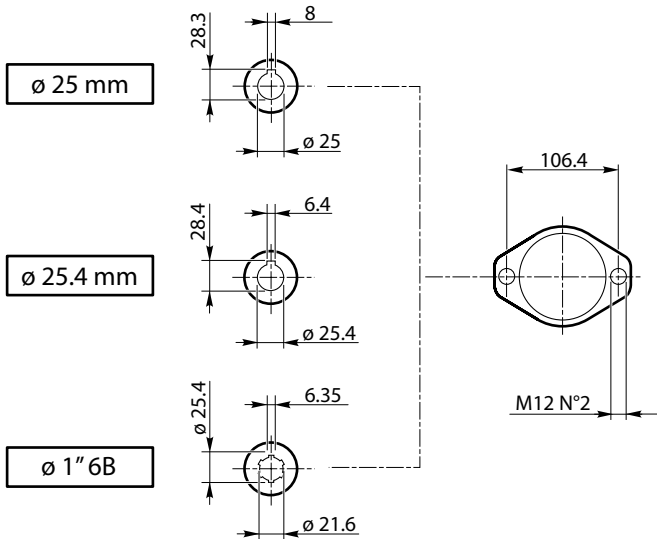
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| CC600 2520/3000 RA 2522 RA 3002 RA 8003-8003L GBA 12013-12013L GBA 26004 GBA 31004 GBA 40004 GBA 85005 GBA 110005 | 395 | 194 | 128 | 310 | 293 | 285 | 8 | 27 | 6,5 | 25,5 | N°12- M10 AT 30° | 265 |



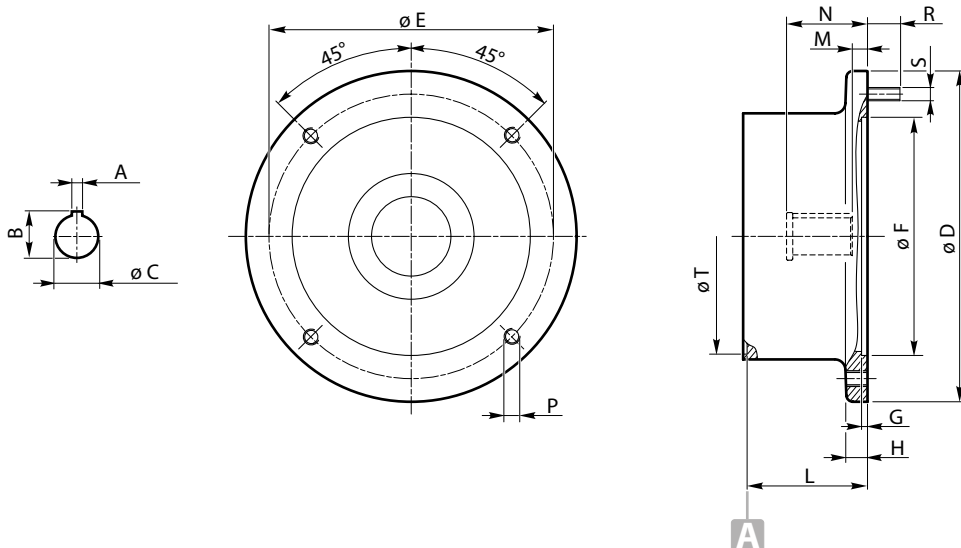
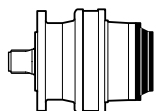
ø A

CC1000

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| RA 3512-4802 | 452 |
| RA 6002-8002 | 490 |
| GBA 16003-16003L | 452 |
| GBA 21003-26003 | 490 |
| GBA 45004 | 452 |
| GBA 53004-61004 | 490 |
| GBA 85004 | 490 |
| GBA 130005 | 452 |



| | Type | Code |
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| RE 111 - 112 - 113 - 114 | | |
| RE 211 - 212 - 213 - 214 | | |
| RE 241 - 242 - 243 - 244 | | |
| RE 312 - 313 - 314 | | |
| RE 512 - 513 - 514 | | |
| RE 613 - 614 | | |
| RE 813 - 814 | | |
| RE 1023 - 1024 | | |
| RE 1523 - 1524 | | |
| RE 2004 | | |
| RE 2524 | | |
| RE 3004 | | |
| RE 3514-4804 | | |
| RE 6004L | | |
| RE 8005 - 8005L | | |
| GB 12015 - 12015L | | |
| GB 16005 - 16005L | | |
| CC30-CC120 | | |
| | MO 25 | K0700AA |
| | MO 25.4 | K0700AB |
| | MO 1" 6B | K0700AC |
| | MZ | — |



- RE 111 - 112 - 113 - 114
- RE 211 - 212 - 213 - 214
- RE 241 - 242 - 243 - 244
- RE 312 - 313 - 314
- RE 512 - 513 - 514
- RE 613 - 614
- RE 813 - 814
- RE 1023 - 1024
- RE 1523 - 1524
- RE 2004 - RE 2004L
- RE 2524
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- RE 8005 - 8005L
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- GB 16005 - 16005L
- CC30-CC120

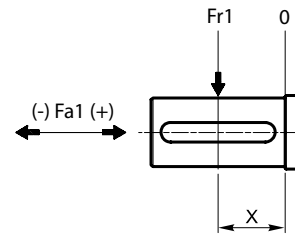
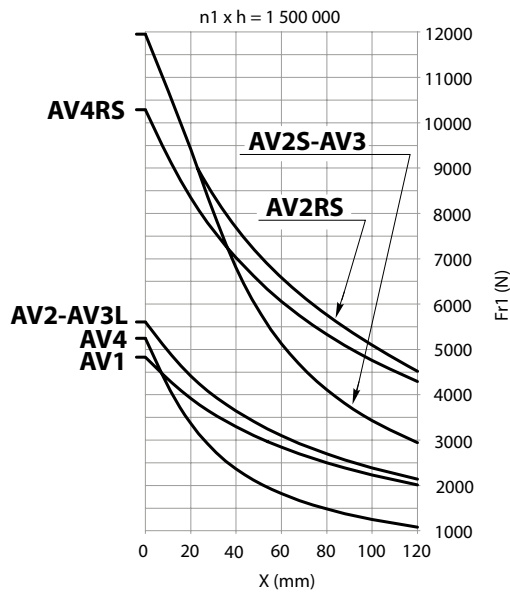
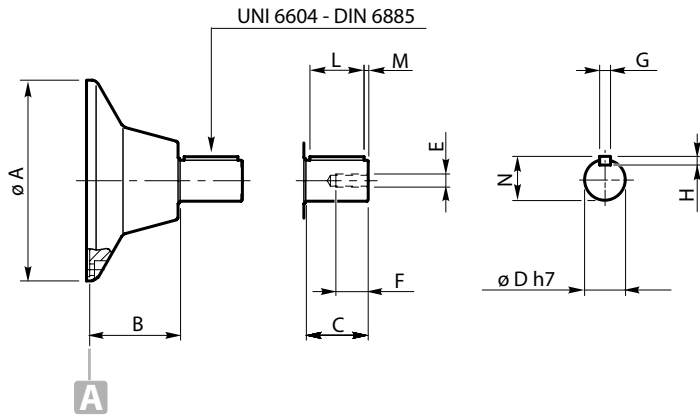
| Input type | Shaft | | | Flange | | | | | | | | | | | |
|-------------------|-------|------|----|--------|-----|-----|-----|----|-------|------|-------|---------|----|---------|-----|
| | A | B | C | D | E | F | G | H | L | M | N | P | R | S | T |
| ME 80 | 6 | 21.8 | 19 | 200 | 165 | 130 | 4 | 16 | 82.5 | 6.5 | 44.5 | — | 25 | N°4-M10 | 178 |
| ME 90 | 8 | 27.3 | 24 | 200 | 165 | 130 | 4 | 16 | 82.5 | 11.5 | 52 | — | 25 | N°4-M10 | |
| ME 100/112 | 8 | 31.3 | 28 | 250 | 215 | 180 | 4.5 | 16 | 91 | 11.5 | 61 | N°4-M12 | — | — | |
| ME 132 | 10 | 41.3 | 38 | 300 | 265 | 230 | 5 | 20 | 115.5 | 8 | 82.5 | N°4-M12 | — | — | |
| ME 160 | 12 | 45.3 | 42 | 350 | 300 | 250 | 6 | 20 | 145 | 23 | 110.5 | N°4-M16 | — | — | |
| ME 180 | 14 | 51.8 | 48 | 350 | 300 | 250 | 6 | 20 | 145 | 23 | 110.5 | N°4-M16 | — | — | |

- RE 311-511
- RE 611 - 612
- RE 812 - 1022
- RE 1522 - 2002 - 2002L
- RE 2003
- RE 2523 - 3003
- RE 3513 - 4803
- RE 6003 - 6003L
- RE 6004 - 6004L
- RE 8004 - 8004L
- GB 12004 - 12004L
- GB 16004 - 16004L
- GB 21004 - 21005
- GB 26005 - 31005
- GB 40005 - 45005
- GB 53005
- CC350

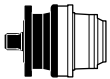
| Input type | Shaft | | | Flange | | | | | | | | | | | |
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| | A | B | C | D | E | F | G | H | L | M | N | P | R | S | T |
| ME132 | 10 | 41.3 | 38 | 300 | 265 | 230 | 5 | 20 | 125.5 | 8 | 82.5 | N°4-M12 | — | — | 236 |
| ME160 | 12 | 45.3 | 42 | 344 | 300 | 250 | 7 | 20 | 154.5 | 23 | 110.5 | N°4-M16 | — | — | |
| ME180 | 14 | 51.8 | 48 | 344 | 300 | 250 | 7 | 20 | 154.5 | 23 | 110.5 | N°4-M16 | — | — | |
| ME225 | 18 | 64.4 | 60 | 450 | 400 | 350 | 7 | 20 | 191.5 | 30 | 143.5 | N°4-M16 | — | — | |

- RE 811
- RE 1021
- RE 2522
- RE 3002
- RE 3512
- RE 8003 - 8003L
- GB 12013 - 12013L
- GB 16003L
- GB 26004
- GB 31004
- GB 40004
- GB 85005
- GB 110005
- CC600 - CC1000

| Input type | Shaft | | | Flange | | | | | | | | | | | |
|--------------|-------|------|----|--------|-----|-----|---|----|-----|------|-------|---------|---|---|-----|
| | A | B | C | D | E | F | G | H | L | M | N | P | R | S | T |
| ME200 | 16 | 59.3 | 55 | 400 | 350 | 300 | 7 | 18 | 165 | 11.5 | 114.5 | N°4-M18 | — | — | 285 |
| ME225 | 18 | 64.4 | 60 | 450 | 400 | 350 | 7 | 20 | 194 | 30.5 | 143.5 | N°8-M18 | — | — | |
| ME250 | 18 | 64.4 | 65 | 550 | 500 | 450 | 7 | 22 | 195 | 17 | 145 | N°8-ø19 | — | — | |
| ME280 | 20 | 79.9 | 75 | 550 | 500 | 450 | 7 | 22 | 195 | 12 | 145 | N°8-ø19 | — | — | |

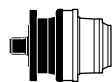
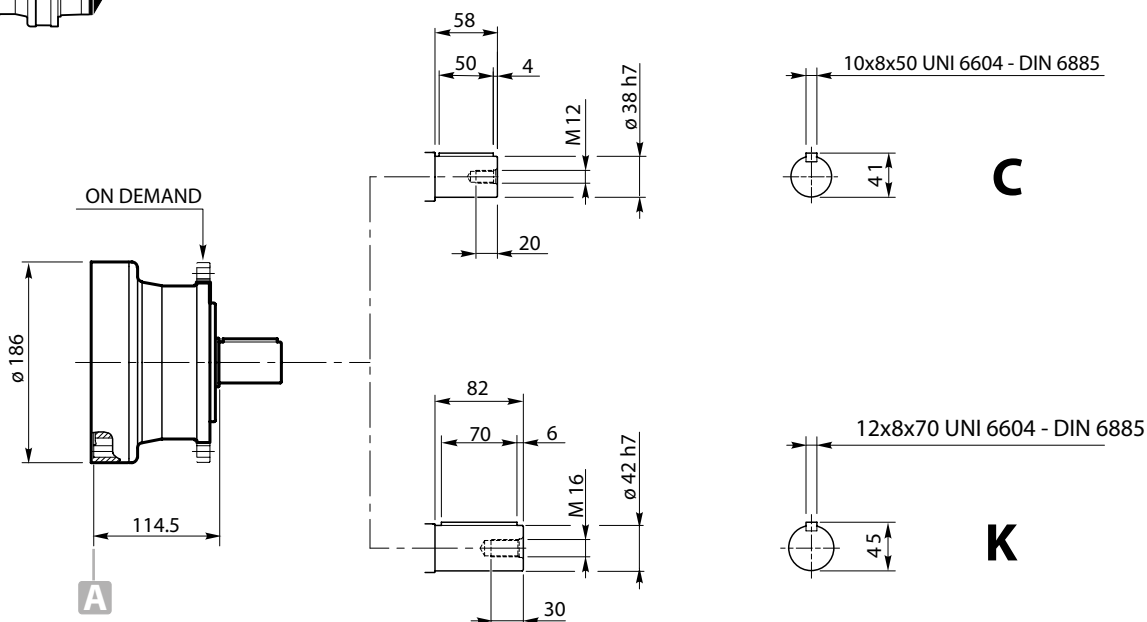
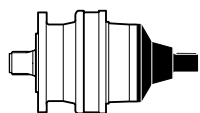


| | n1 x h = 1 500 000 Fa1 max (Fr1 = 0) | |
|-------------------------|---|---------|
| | Fa1 (+) | Fa1 (-) |
| AV1 | 4 800 | 4 800 |
| AV2 - AV3L - AV4 | 7 800 | 7 800 |
| AV2S - AV3 | 4 900 | 7 800 |
| AV2RS - AV4RS | 4 900 | 4 900 |



| | Type | øA | B | C | øD | E | F | G | H | L | M | N | Code |
|--------------------------------|--------------|-----|-------|----|----|-----|----|----|---|----|-----|------|---------|
| RE 111 - 112 - 113 - 114 | AV1 | 186 | 83.5 | 58 | 38 | M12 | 30 | 10 | 8 | 50 | 4 | 41 | K0700AH |
| RE 211 - 212 - 213 - 214 | | | | | | | | | | | | | |
| RE 241 - 242 - 243 - 244 | | | | | | | | | | | | | |
| RE 312 - 313 - 314 | | | | | | | | | | | | | |
| RE 512 - 513 - 514 | | | | | | | | | | | | | |
| RE 613 - 614 - 813 - 814 | AV2 | 186 | 96.5 | 82 | 42 | M12 | 30 | 12 | 8 | 70 | 6 | 45 | K0700AI |
| RE 1023 - 1024 - 1523 - 1524 | | | | | | | | | | | | | |
| RE 2000 - 2524 - 3004 - 3514 | AV3L | 186 | 96.5 | 82 | 48 | M16 | 40 | 14 | 9 | 70 | 6 | 51.5 | K0700AI |
| RE 4804 - 6004L - 8005 - 8005L | AV4 | 186 | 108.5 | 65 | 40 | M12 | 30 | 12 | 8 | 60 | 2.5 | 43 | K0700AX |
| GB 12015 - 12015L | AV4RS | 186 | 108.5 | 65 | 40 | M12 | 30 | 12 | 8 | 60 | 2.5 | 43 | K0700AX |
| GB 16005 - 16005L | | | | | | | | | | | | | |
| CC30-CC120 | | | | | | | | | | | | | |

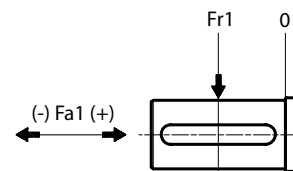
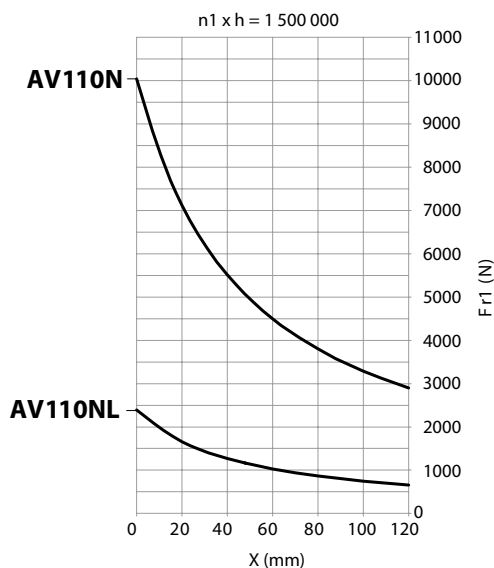
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|------------------------------|--------------|-----|-----|----|----|-----|----|----|---|----|-----|------|---------|
| RE 311-511-611-612 | AV2 | 244 | 106 | 82 | 42 | M12 | 30 | 12 | 8 | 70 | 6 | 45 | K0700DL |
| RE 812-1022-1522-2003 | | | | | | | | | | | | | |
| RE 2523-3003-3513-4803 | AV2S | 244 | 106 | 82 | 42 | M12 | 30 | 12 | 8 | 70 | 6 | 45 | K0700DL |
| RE 6003-6003L-6004-6004L | AV2RS | 244 | 106 | 82 | 42 | M12 | 30 | 12 | 8 | 70 | 6 | 45 | K0700DL |
| RE 8004-8004L | AV3 | 244 | 106 | 82 | 48 | M16 | 40 | 14 | 9 | 70 | 6 | 51.5 | K0700DM |
| GB 12014-12014L-16004-16004L | | | | | | | | | | | | | |
| GB 21004-21005-26005-31005 | AV4 | 244 | 118 | 65 | 40 | M12 | 30 | 12 | 8 | 60 | 2.5 | 43 | K0700DJ |
| GB 40005-45005-53005 | AV4RS | 244 | 118 | 65 | 40 | M12 | 30 | 12 | 8 | 60 | 2.5 | 43 | K0700DJ |
| GB 61005 | | | | | | | | | | | | | |
| CC350-CC600 | | | | | | | | | | | | | |



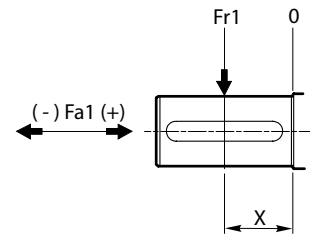
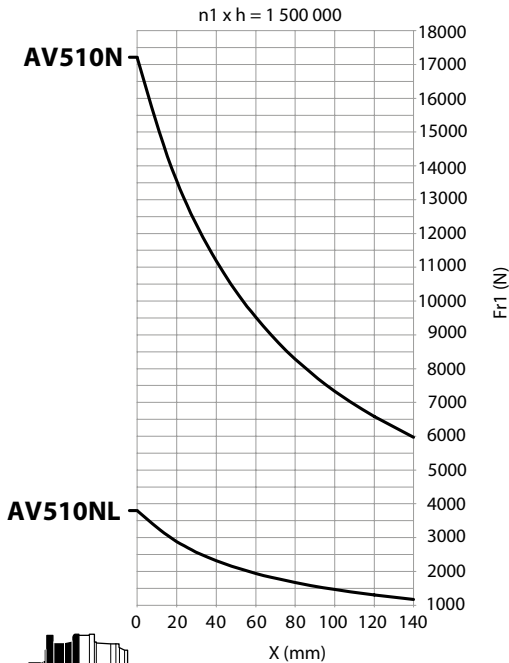
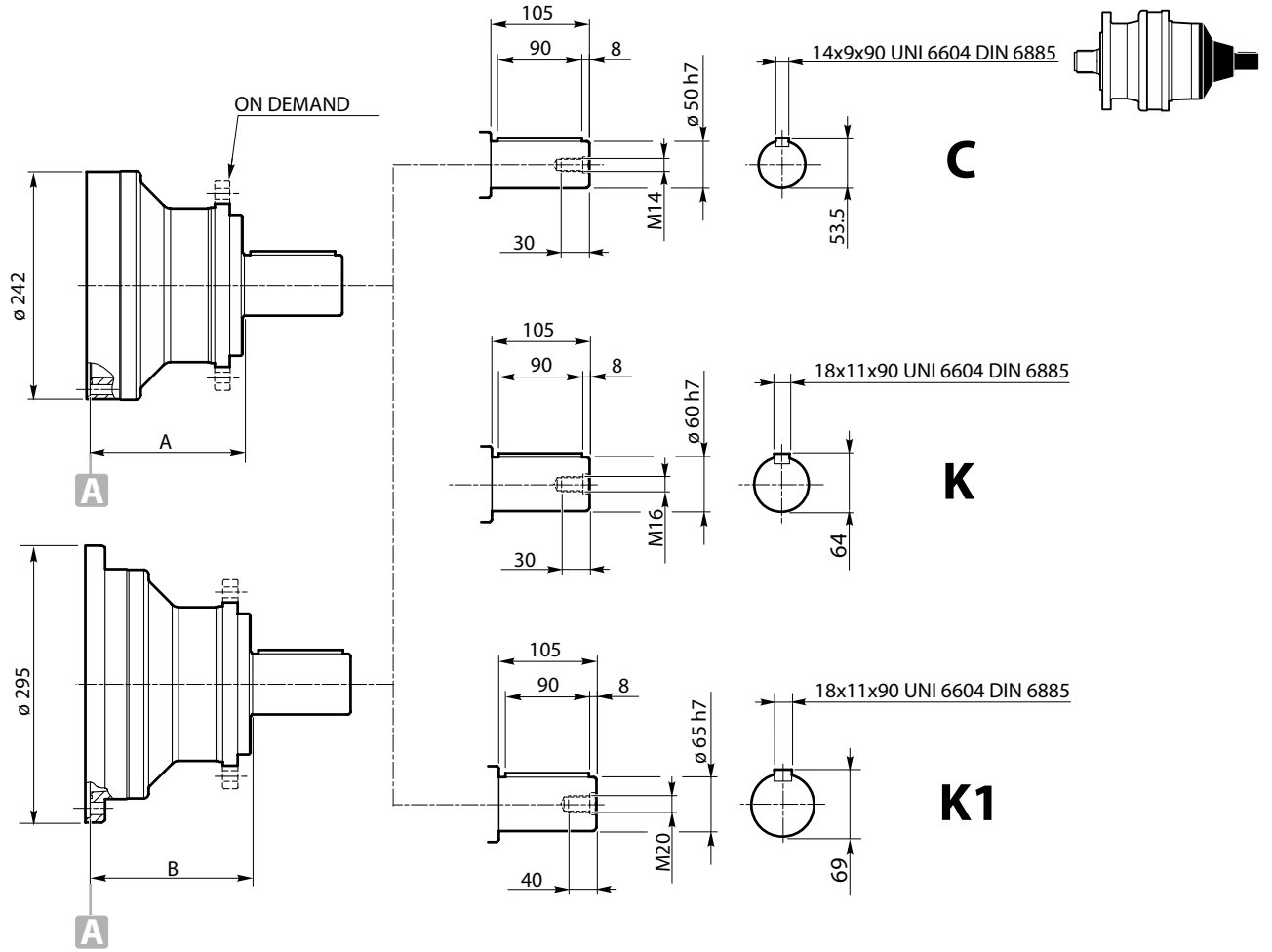
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| RE 111 - 112 - 113 - 114 |
| RE 211 - 212 - 213 - 214 |
| RE 241 - 242 - 243 - 244 |
| RE 312 - 313 - 314 |
| RE 512 - 513 - 514 |
| RE 613 - 614 |
| RE 813 - 814 |
| RE 1023 - 1024 |
| RE 1523 - 1524 |
| RE 2004 |
| RE 2524 |
| RE 3004 |
| RE 3514 |
| RE 4804 |
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| RE 8005 - 8005L |
| GB 12015 - 12015L |
| GB 16005 - 16005L |
| CC30-CC120 |

Code

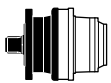
K0700AY



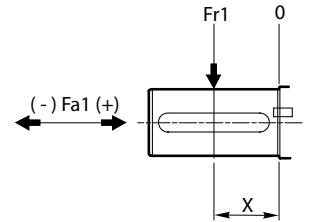
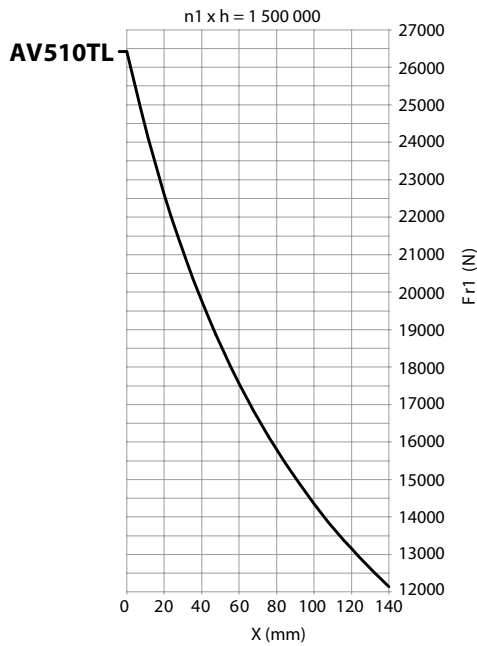
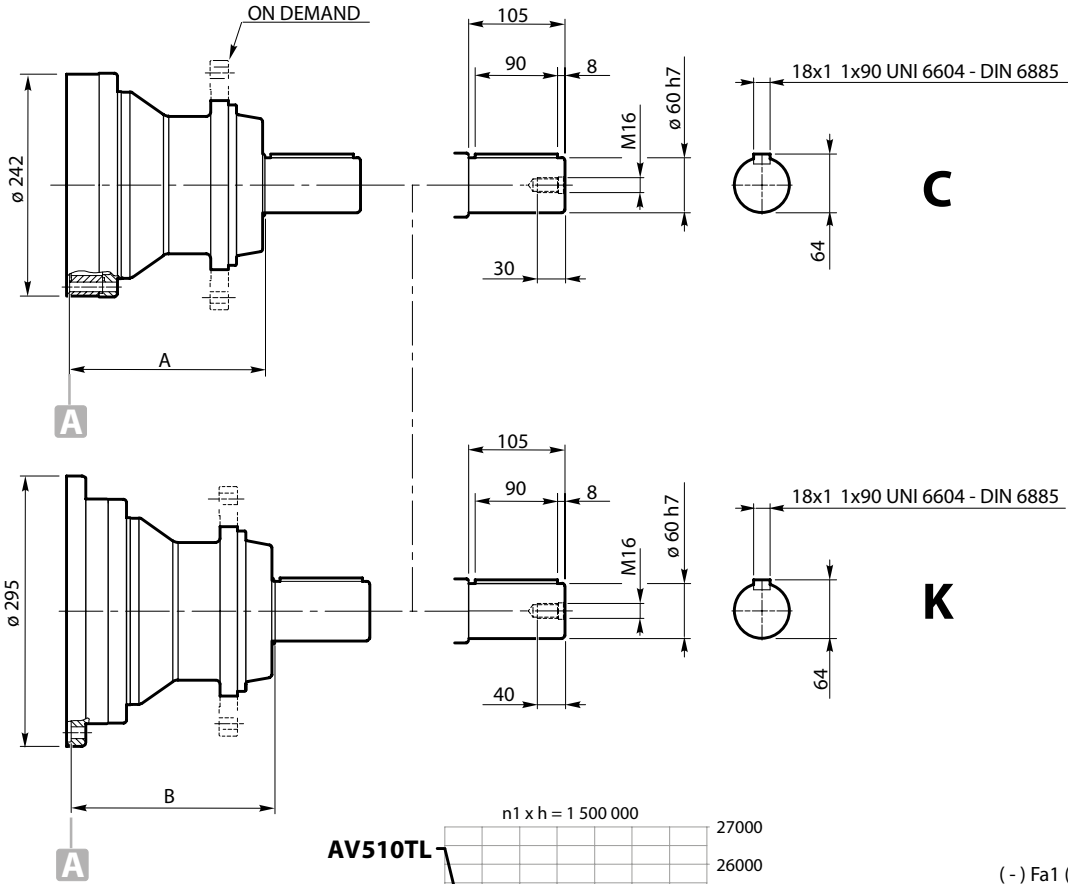
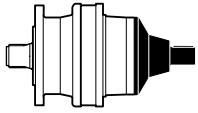
| | | |
|--------------------|---------|---------|
| n1 x h = 1 500 000 | | |
| Fa1 max (Fr1 = 0) | | |
| | Fa1 (+) | Fa1 (-) |
| AV110N | 4 900 | 7 800 |
| AV110NL | 3 750 | 3 750 |



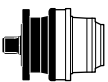
| $n_1 \times h = 1\,500\,000$ | | |
|------------------------------|---------|---------|
| Fa1 max (Fr1 = 0) | | |
| | Fa1 (+) | Fa1 (-) |
| AV510NL | 6 600 | 6 600 |
| AV510N | 15 250 | 15 250 |



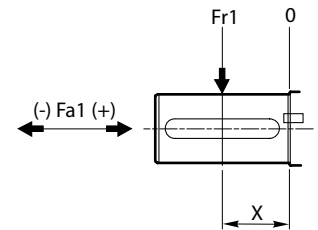
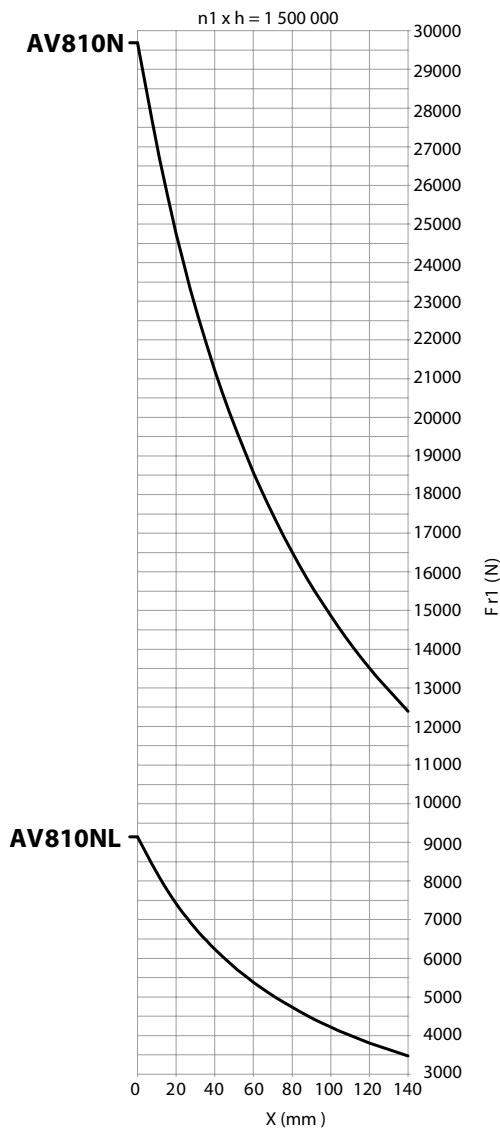
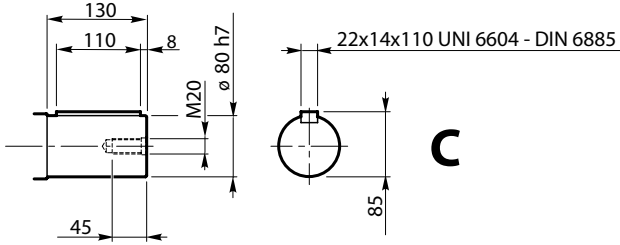
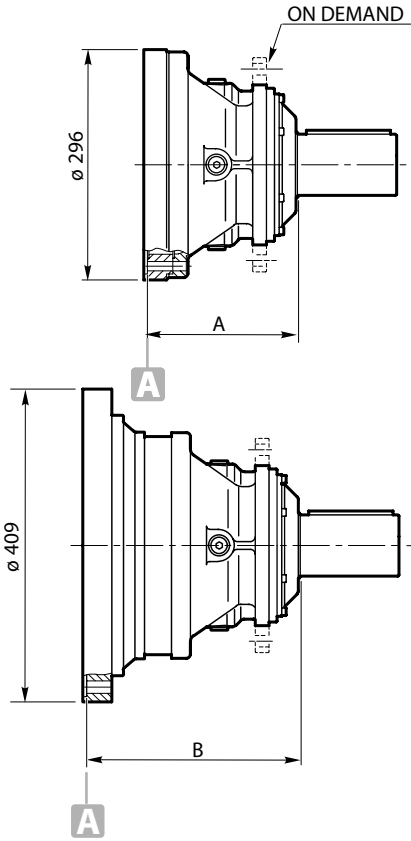
| | A | B |
|--|-----|-------|
| RE 311-511-611-612-812-1022-1522-2003-2523-3003-3513-4803-6003-6003L | 164 | — |
| RE 6004-6004L-8004-8004L | 164 | — |
| GB 12014-12014L-16004-16004L-21004-21005-26005-31005-40005-45005 | 164 | — |
| GB 53005-61005 | — | 172.5 |
| RE 811-1021-2522-3002-3512-8003-8003L | — | 172.5 |
| GB 12013-12013L-16003L-26004-31004-40004-85005-110005 | — | 172.5 |
| CC350 | 128 | — |
| CC600 | — | 153 |



| n1 x h = 1 500 000 Fa1 max (Fr1 = 0) | | |
|---|---------|---------|
| | Fa1 (+) | Fa1 (-) |
| AV510TL | 21 600 | 21 600 |

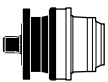


| | A | B |
|--|-----|-----|
| RE 311-511-611-612-812-1022-1522-2003-2523-3003-3513-4803-6003-6003L | 212 | — |
| RE 6004-6004L-8004-8004L | 212 | — |
| GB 12014-12014L-16004-16004L-21004-21005-26005-31005-40005-45005 | 212 | — |
| GB 53005-61005 | 212 | — |
| RE 811-1021-2522-3002-3512-8003-8003L | — | 221 |
| GB 12013-12013L-16003L-26004-31004-40004-85005-110005 | — | 221 |
| CC350 | 176 | — |
| CC600 | — | 201 |

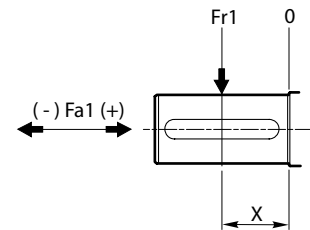
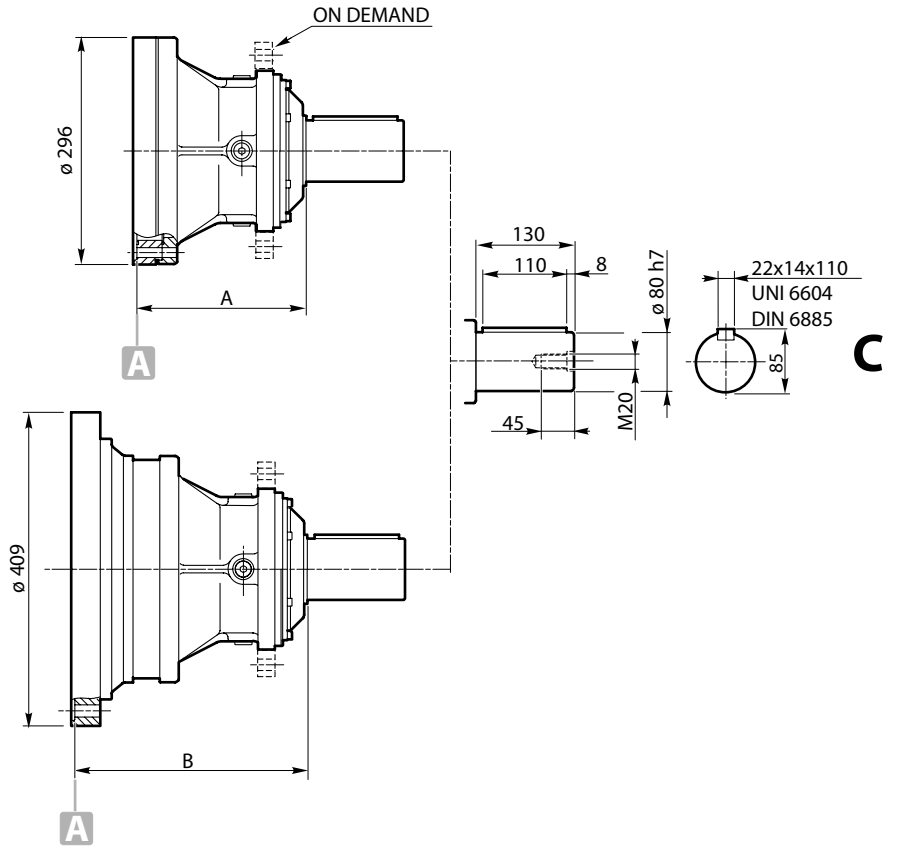
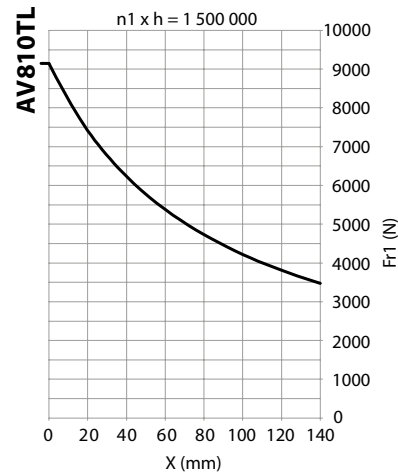
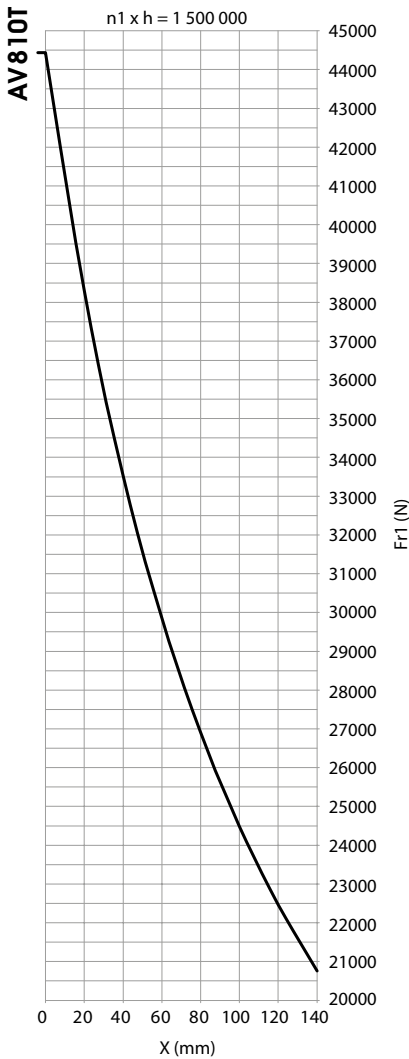
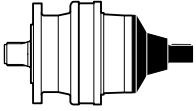


n1 x h = 1 500 000
Fa1 max (Fr1 = 0)

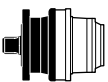
| | Fa1 (+) | Fa1 (-) |
|----------------|---------|---------|
| AV810NL | 14 800 | 14 800 |
| AV810N | 25 900 | 25 900 |



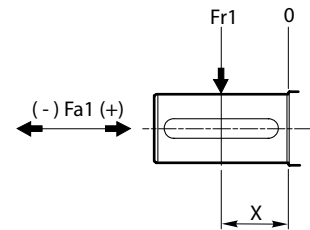
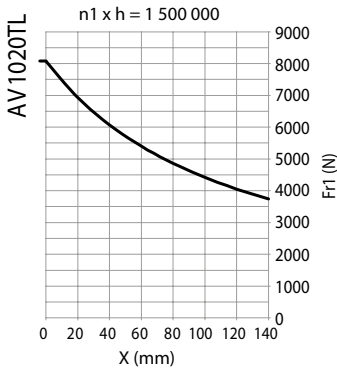
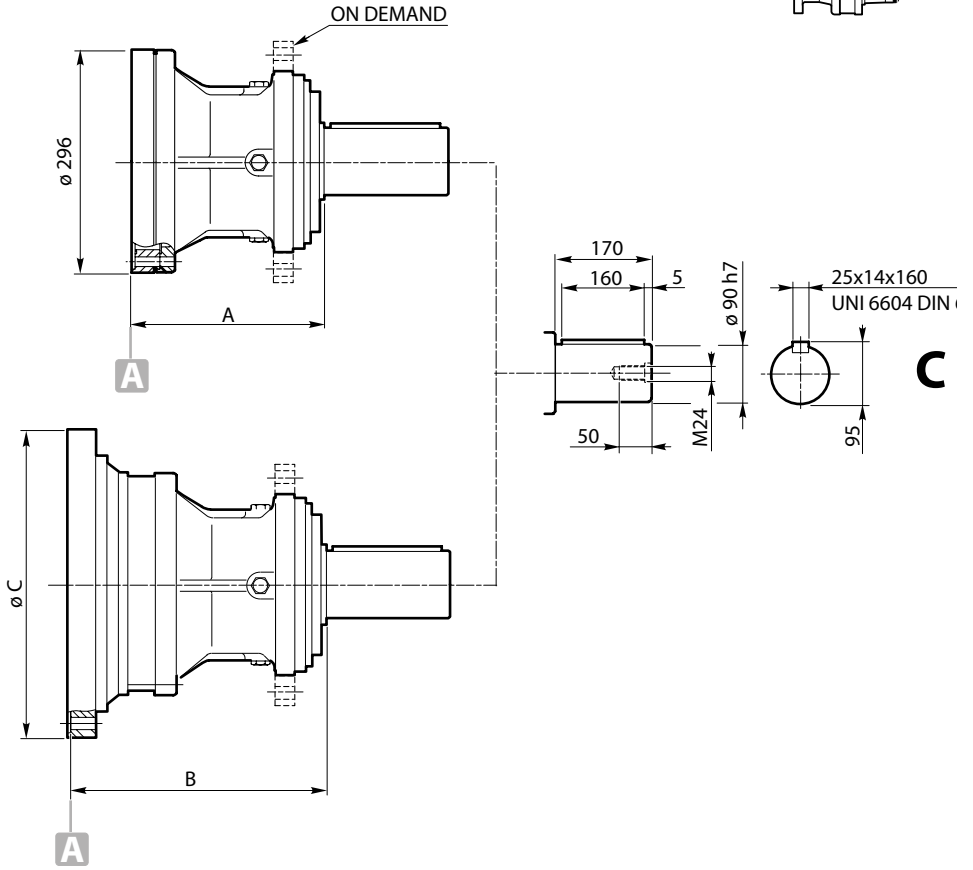
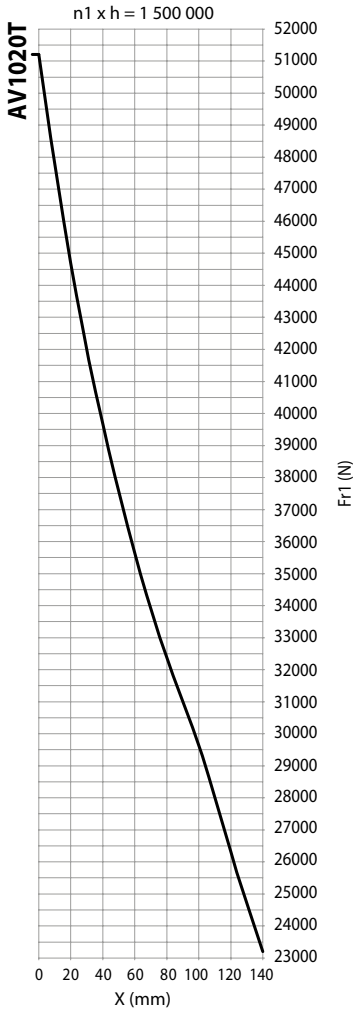
| | A | B |
|--|-------|-----|
| RE 811-1021-2522-3002-3512-8003-8003L | 195.5 | — |
| GB 12013-12013L-16003L-26004-31004-40004-85005-110005 | 195.5 | — |
| RE 2521-3001-8002-8002L | — | 278 |
| GB 12012-12012L-26003-31003-40003-85004-110004-205005-235005 | — | 278 |
| CC600 | 162.5 | — |
| CC1000 | 162.5 | — |



| n1 x h = 1 500 000 | | |
|--------------------|---------|--------|
| Fa1 max (Fr1 = 0) | | |
| Fa1 (+) | Fa1 (-) | |
| AV810T | 39 200 | 25 900 |



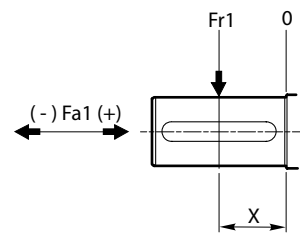
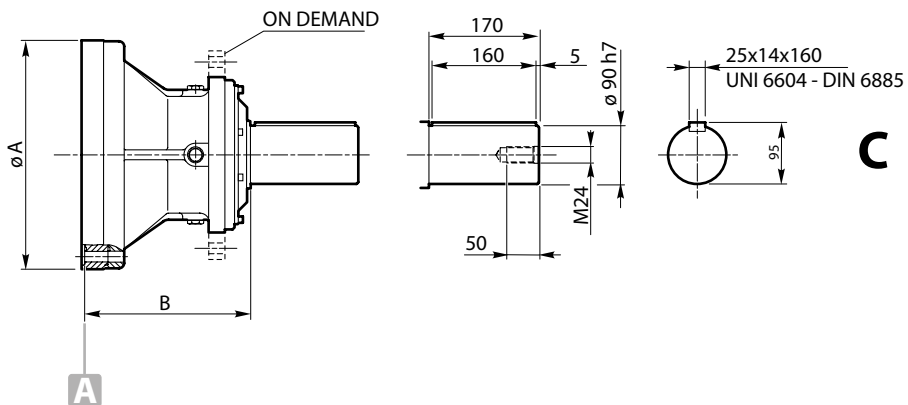
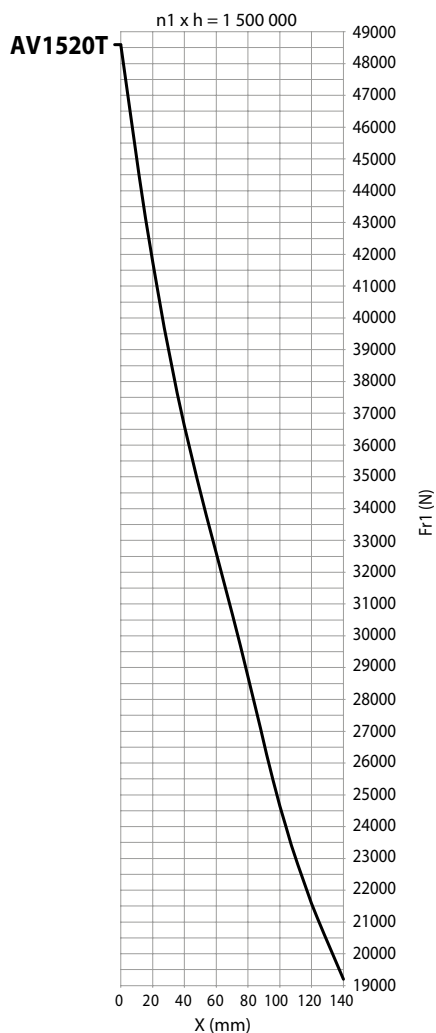
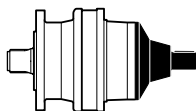
| | A | B |
|--|-----|-----|
| RE 811-1021-2522-3002-3512-8003-8003L | 218 | — |
| GB 12013-12013L-16003L-26004-31004-40004-85005-110005 | 218 | — |
| RE 2521-3001-8002-8002L | — | 296 |
| GB 12012-12012L-26003-31003-40003-85004-110004-205005-235005 | — | 296 |
| CC600 | 185 | — |
| CC1000 | 185 | — |



| $n1 \times h = 1\,500\,000$ Fa1 max (Fr1 = 0) | | |
|--|---------|---------|
| | Fa1 (+) | Fa1 (-) |
| AV1020T | 46 450 | 26 850 |



| | A | B | C |
|---|-----|-----|-----|
| RE 811-1021-2522-3002-3512-8003-8003L | 249 | — | — |
| GB 12013-12013L-16003L-26004-31004-40004-85005-110005 | 249 | — | — |
| RE 2521-3001-8002-8002L | — | 327 | 409 |
| GB 12012-12012L-26003-31003-40003-85004-110004 | — | 327 | 409 |
| RE 3511-4801 | — | 348 | 452 |
| GB 16002-16002L-45003-130004 | — | 348 | 452 |
| CC1000 | 216 | — | — |



| n1 x h = 1 500 000 Fa1 max (Fr1 = 0) | | |
|---|---------|---------|
| | Fa1 (+) | Fa1 (-) |
| AV1520T | 26 000 | 8 500 |



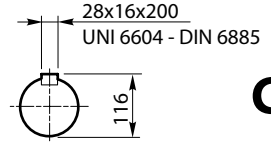
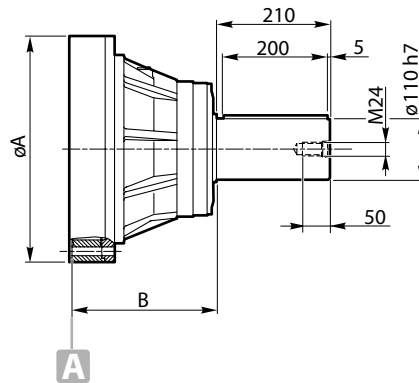
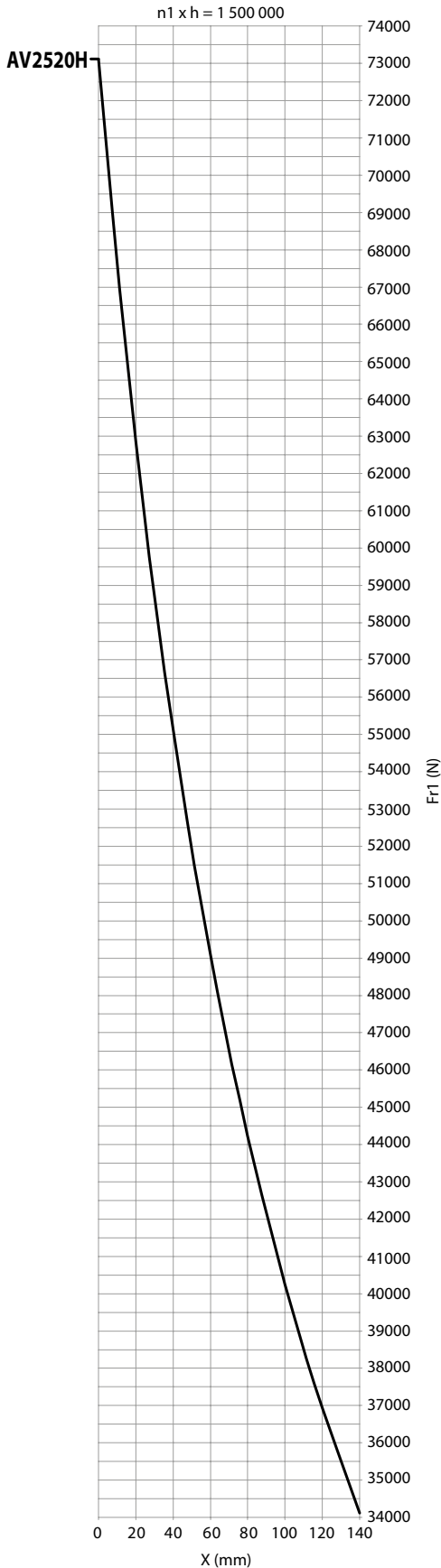
RE 1521-2001-6002-6002L

GB 21003-45004-53004-61004-130005

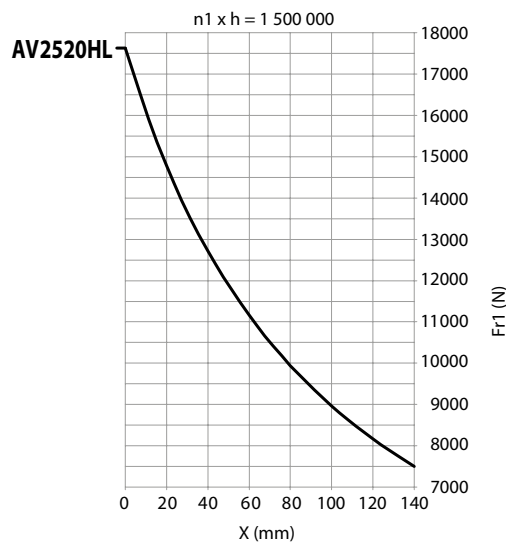
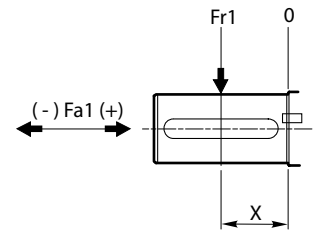
RE 6001

GB 21002-53003-61003-150004

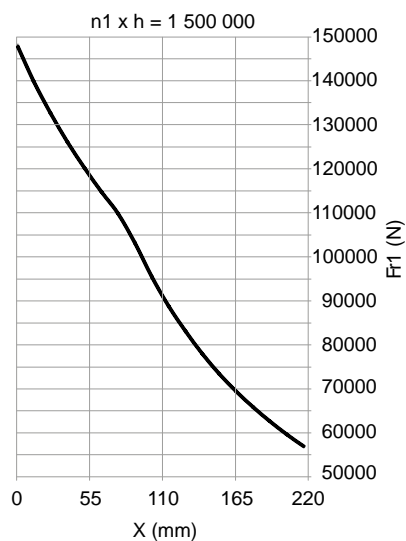
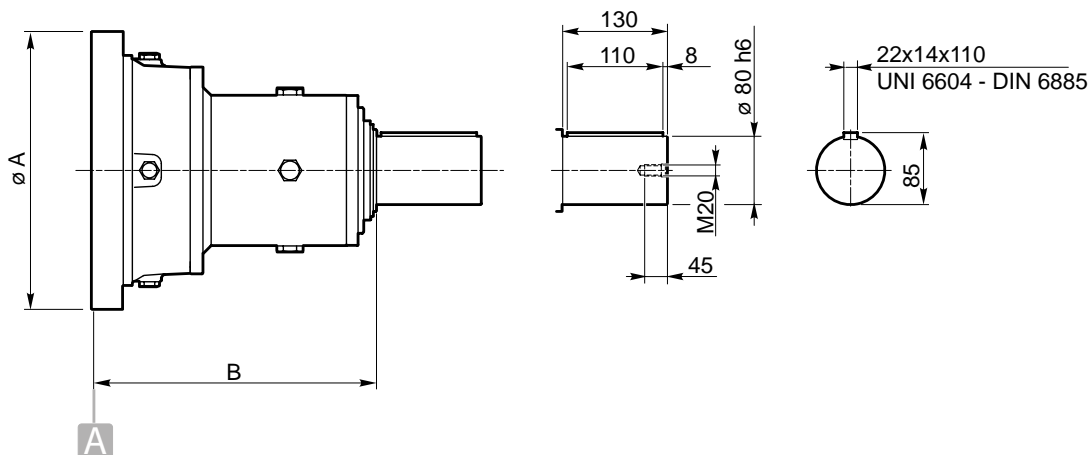
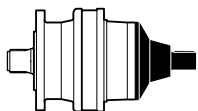
| | A | B |
|-----------------------------------|-----|-----|
| RE 1521-2001-6002-6002L | 353 | 252 |
| GB 21003-45004-53004-61004-130005 | 353 | 252 |
| RE 6001 | 490 | 321 |
| GB 21002-53003-61003-150004 | 490 | 321 |



| $n1 \times h = 1\,500\,000$ Fa1 max (Fr1 = 0) | | |
|--|---------|---------|
| | Fa1 (+) | Fa1 (-) |
| AV2520H | 66 000 | 50 000 |
| AV2520HL | 29 700 | 29 700 |



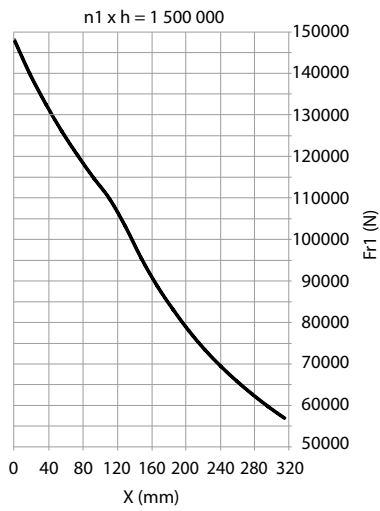
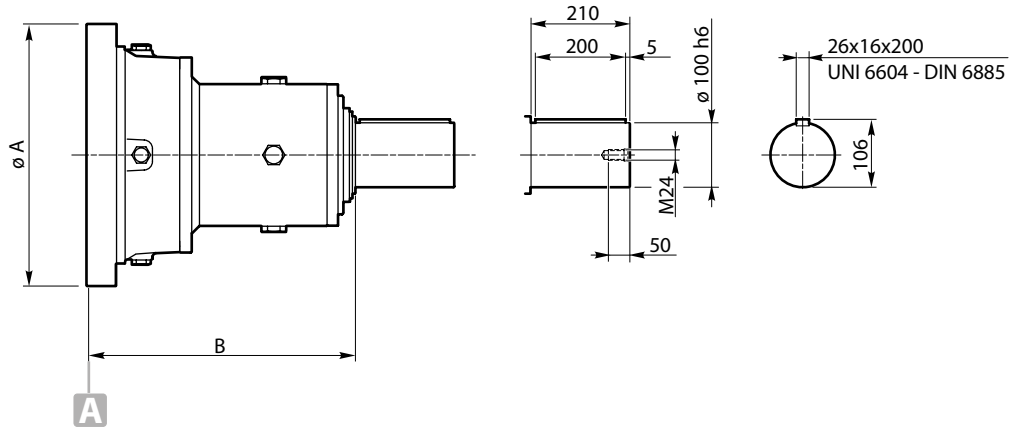
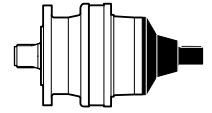
| | A | B |
|--|----------|----------|
| RE 2521-3001-8002-8002L | 409 | 257 |
| GB 12012-12012L--26003-31003-40003 | 409 | 257 |
| GB 85004-110004-205005-235005 | 452 | 320 |
| RE 3511-4801 | 452 | 320 |
| GB 16002-16002L-45003-130004 | 490 | 293 |
| RE 6001 | 490 | 293 |
| GB 21002-53003-61003-150004 | 490 | 385 |
| RE 8001 | 490 | 385 |
| GB 26002-85003 | 490 | 385 |
| GB 12011-16001-31002-40002-45002-110003 | 368 | 610 |
| GB 130003-205004-235004 | 368 | 610 |



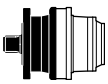
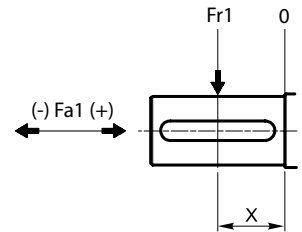
| | | | |
|-------------|---|---------|--|
| | n1 x h = 1 500 000 Fa1 max (Fr1 = 0) | | |
| | Fa1 (+) | Fa1 (-) | |
| AV80 | 31 700 | 31 700 | |



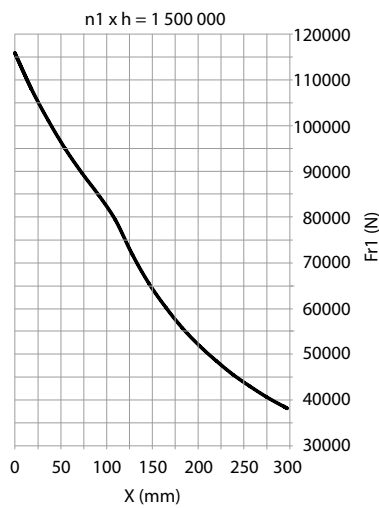
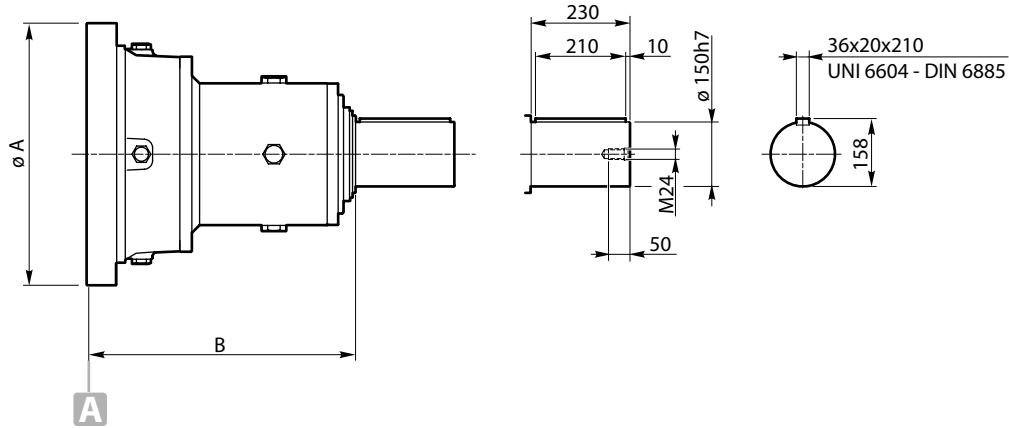
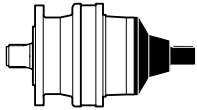
| | A | B |
|--|-----|-------|
| RE 811-1021-2522-3002-3512-80003-8003L | 295 | 187.5 |
| GB 12013-12013L-16003L-260004-31004-40004-85005-110005 | 295 | 187.5 |
| RE 2521-3001-8002-8002L | 409 | 298 |
| GB 12012-12012L-26003-31003-40003-85004-110004-205003 | 409 | 298 |



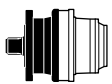
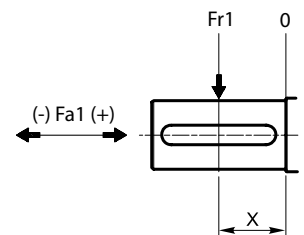
| | $n1 \times h = 1\,500\,000$ Fa1 max (Fr1 = 0) | |
|--------------|--|---------|
| | Fa1 (+) | Fa1 (-) |
| AV100 | 52 000 | - |



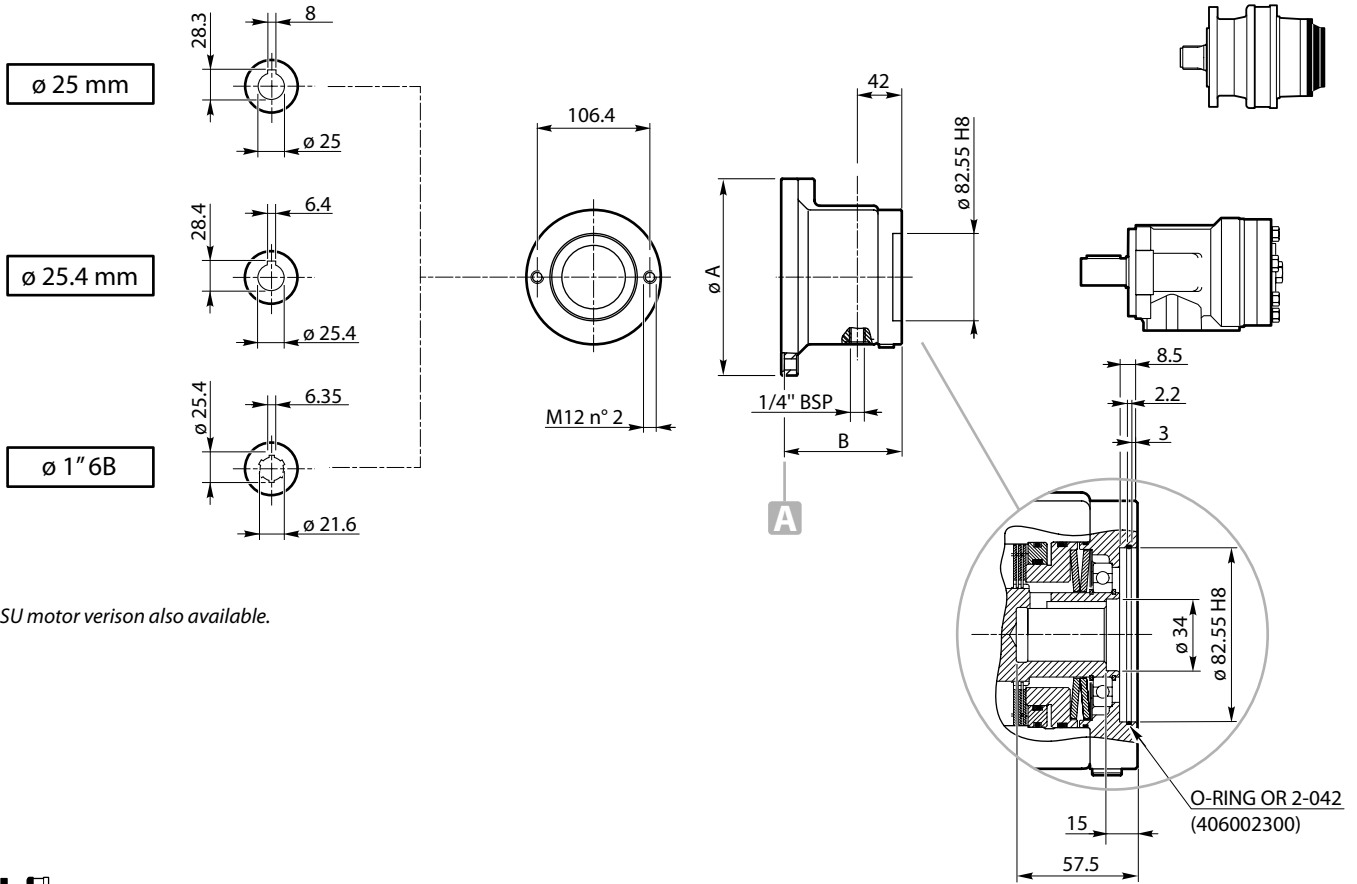
| | A | B |
|--|----------|----------|
| RE 3511-4801 | 452 | 464.5 |
| GB 16002-45003-130004 | 452 | 464.5 |
| RE 6001-8001 | 490 | 437 |
| GB 21002-26002-53003-61003-85003-150004 | 490 | 437 |
| GB 12011-16001 | 610 | 550 |
| GB 31002-40002-45002-110003-130003-150003-205004-235004 | 610 | 550 |



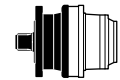
| $n1 \times h = 1\,500\,000$ | |
|-----------------------------|---------|
| Fa1 max (Fr1 = 0) | |
| Fa1 (+) | Fa1 (-) |
| AV150 | 63 000 |



| | A | B |
|--|-----|-----|
| RE 6001-8001 | 490 | 634 |
| GB 21002-26002-53003-61003-150004 | 490 | 634 |
| GB 12011-16001 | 610 | 626 |
| GB 31002-40002-45002-110003-130003-15000-205004-235004 | 610 | 626 |

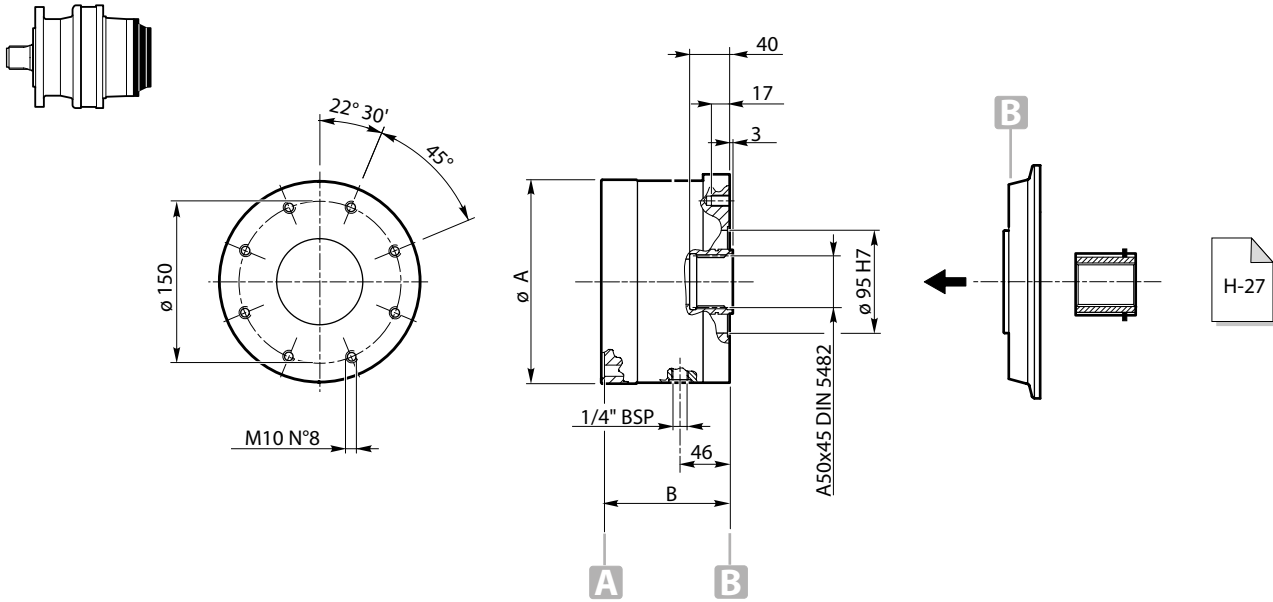


OMSU motor version also available.



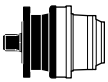
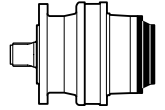
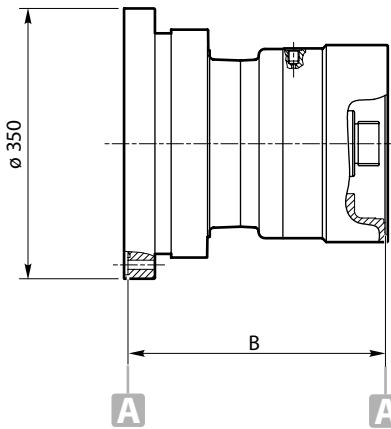
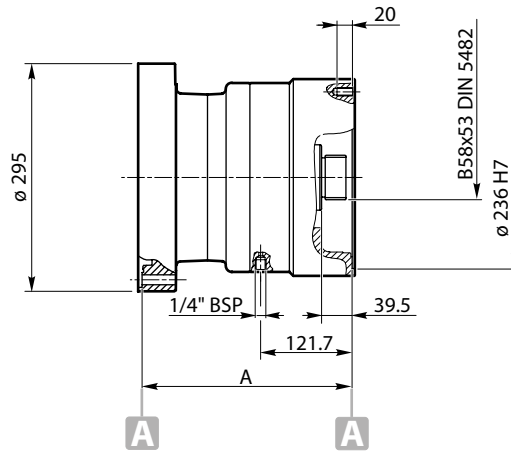
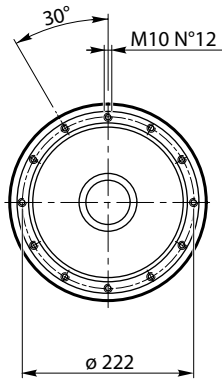
| | Ø A | B | | F 01 | F 10 | F 11 | F 12 | F 13 | F 14 | F 05 | F 16 | | |
|--|-----|-------|---------------------|------|------|------|------|------|------|------|------|-----|--|
| RE 111 - 112 - 113 - 114 RE 211 - 212 - 213 - 214 RE 241 - 242 - 243 - 244 RE 312 - 313 - 314 RE 512 - 513 - 514 RE 613 - 614 RE 813 - 814 RE 1023 - 1024 RE 1523 - 1524 RE 2004 RE 2524 RE 3004 RE 3514-4804 RE 6004L RE 8005 - 8005L GB 12015 - 12015L GB 16005 - 16005L CC30-CC120 | 186 | 109.5 | Tb (Nm) | 132 | 133 | 182 | 235 | 332 | 468 | 530 | 608 | ±5% | |
| | | | pb (bar) | 23 | 29 | 34 | 26 | 30 | 36 | 39 | 42 | | |
| | | | p max (bar) | 300 | | | | | | | | | |
| | | | n1 max (RPM) | 700 | | | | | | | | | |

| | Ø A | B | | F 02 | F 20 | F 21 | F 22 | F 23 | F 24 | F 25 | F 26 | | |
|---|-----|-------|---------------------|------|------|------|------|------|------|------|------|-----|--|
| RE 311-511 RE 611 - 612 RE 812-1022 RE 1522-2003 RE 2523-3003 RE 3513-4803 RE 6003 - 6003L RE 6004 - 6004L RE 8004 - 8004L GB 12014 - 12014L GB 16004 - 16004L GB 21004 - 21005 GB 26005-31005 GB 40005-45005 GB 53005 CC350 | 244 | 118.5 | Tb (Nm) | 132 | 133 | 182 | 235 | 332 | 468 | 530 | 608 | ±5% | |
| | | | pb (bar) | 23 | 29 | 34 | 26 | 30 | 36 | 39 | 42 | | |
| | | | p max (bar) | 300 | | | | | | | | | |
| | | | n1 max (RPM) | 700 | | | | | | | | | |

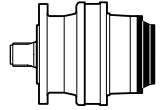
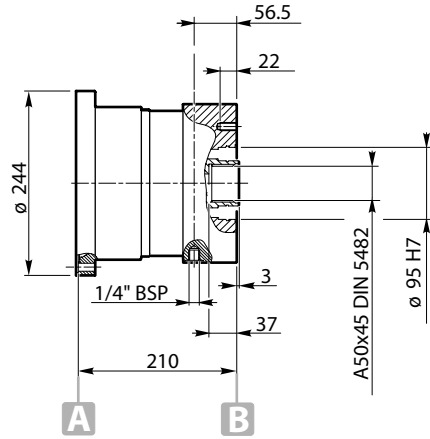
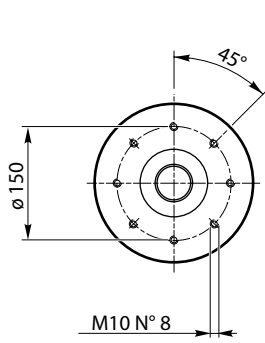


| | ∅ A | B | | F 501 | F 502 | F 503 | F504 | F505 | F506 | F 508 | | |
|---|-----|-----|---------------------|-----------------------------------|-------|-------|------|------|------|-------|-----|--|
| RE 111 - 112 - 113 - 114 RE 211 - 212 - 213 - 214 RE 241 - 242 - 243 - 244 RE 312 - 313 - 314 RE 512 - 513 - 514 RE 613 - 614 RE 813 - 814 RE 1023 - 1024 RE 1523 - 1524 RE 2004 RE 2524 RE 3004 RE 3514-4804 RE 6004L RE 8005 - 8005L GB 12015 - 12015L GB 16005 - 16005L CC30 CC120 | 186 | 115 | Tb (Nm) | 110 | 215 | 325 | 405 | 500 | 630 | 818 | ±5% | |
| | | | pb (bar) | 10 | 20 | 30 | 38 | 28 | 35 | 33 | | |
| | | | p max (bar) | 300 | | | | | | | | |
| | | | n1 max (RPM) | 1500 (standard) 3500 (special) | | | | | | | | |

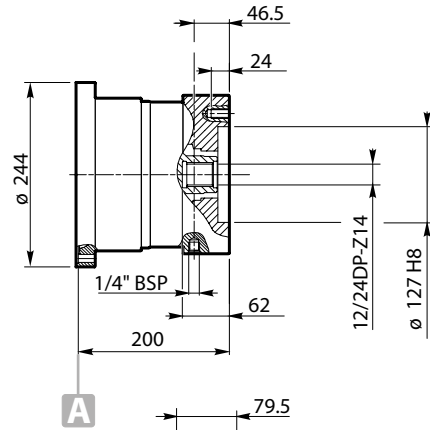
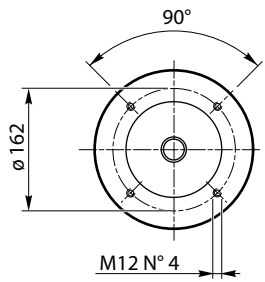
| | ∅ A | B | | F 601 | F 602 | F 603 | F604 | F 605 | F 606 | F608 | F610 | F612 | |
|---|-----|-----|---------------------|-----------------------------------|-------|-------|------|-------|-------|------|------|------|-----|
| RE 311-511 RE 611 - 612 RE 812-1022 RE 1522-2003 RE 2523-3003 RE 3513-4803 RE 6003 - 6003L RE 6004 - 6004L RE 8004 - 8004L GB 12014 - 12014L GB 16004 - 16004L GB 21004 - 21005 GB 26005-31005 GB 40005-45005 GB 53005 CC350 | 244 | 125 | Tb (Nm) | 110 | 215 | 325 | 405 | 500 | 630 | 818 | 1005 | 1150 | ±5% |
| | | | pb (bar) | 10 | 20 | 30 | 38 | 28 | 35 | 33 | 40 | 40 | |
| | | | p max (bar) | 300 | | | | | | | | | |
| | | | n1 max (RPM) | 1500 (standard) 3500 (special) | | | | | | | | | |



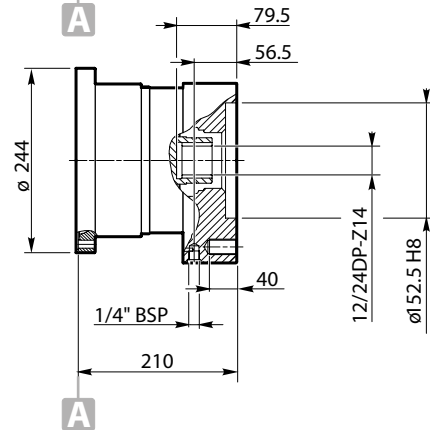
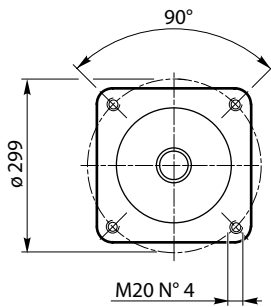
| | A | B | | F 813 | F 815 | F 818 | F 820 | F 823 | F 827 | F 830 | |
|-----------------|-------|-------|------------------------|-----------------|-------|-------|-------|-------|-------|-------|-----|
| RE 811 | 272.5 | - | Tb (Nm) | 1271 | 1525 | 1780 | 2034 | 2288 | 2670 | 3051 | ±5% |
| RE 1021 | - | 314.5 | | | | | | | | | |
| RE 1521-2001 | 272.5 | - | | | | | | | | | |
| RE 2522-3002 | 272.5 | - | pb (bar) | 54 | 65 | 76 | 58 | 65 | 76 | 87 | |
| RE 3512-4801 | - | 314.5 | | | | | | | | | |
| RE 6002-6002L | 272.5 | - | | | | | | | | | |
| RE 8003-8003L | 272.5 | - | p max (bar) | 300 | | | | | | | |
| GB 12013-12013L | 272.5 | - | | | | | | | | | |
| GB 16003L | - | 314.5 | | | | | | | | | |
| GB 16003 | - | 314.5 | n1 max (RPM) | 1500 (standard) | | | | | | | |
| GB 21003 | 272.5 | - | | | | | | | | | |
| GB 26004 | 272.5 | - | | | | | | | | | |
| GB 31004 | 272.5 | - | | 3500 (special) | | | | | | | |
| GB 40004 | - | 314.5 | | | | | | | | | |
| GB 45004 | - | 314.5 | | | | | | | | | |
| GB 53004 | - | 314.5 | | | | | | | | | |
| GB 61004 | 272.5 | - | | | | | | | | | |
| GB 85005 | 272.5 | - | | | | | | | | | |
| GB 110005 | - | 314.5 | | | | | | | | | |
| GB 130005 | - | 314.5 | | | | | | | | | |
| GB 150005 | 272.5 | - | | | | | | | | | |
| CC600 | 272.5 | - | | | | | | | | | |
| CC1000 | 292.5 | - | | | | | | | | | |
| | 292.5 | - | | | | | | | | | |



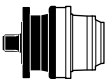
ST



SAE "C"



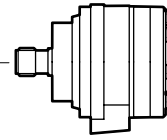
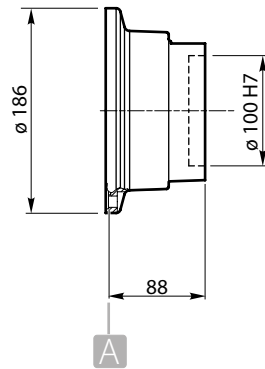
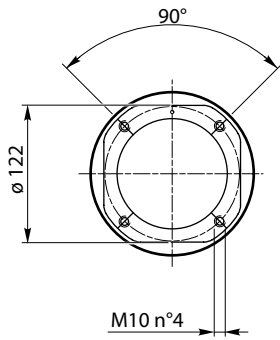
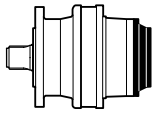
SAE "D"



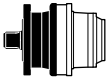
| | F 902 | F 903 | F 904 | F 905 | F 906 | F 908 | F 910 | F 912 | F 915 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|

| | | | | | | | | | | | |
|---|------------------------|-----------------|-----|-----|-----|-----|-----|-----|------|------|-----|
| RE 311-511 RE 611 - 612 RE 812-1022 RE 1522-2003 RE 2523-3003 RE 3513-4803 RE 6003 - 6003L RE 6004 - 6004L RE 8004 - 8004L GB 12014 - 12014L GB 16004 - 16004L GB 21004 - 21005 GB 26005-31005 GB 40005-45005 GB 53005 CC350 | Tb (Nm) | 200 | 310 | 400 | 485 | 620 | 770 | 990 | 1160 | 1325 | ±5% |
| | pb (bar) | 14 | 22 | 19 | 18 | 23 | 23 | 29 | 34 | 38 | |
| | p max (bar) | 300 | | | | | | | | | |
| | n1 max (RPM) | 1500 (standard) | | | | | | | | | |
| | | 3500 (special) | | | | | | | | | |

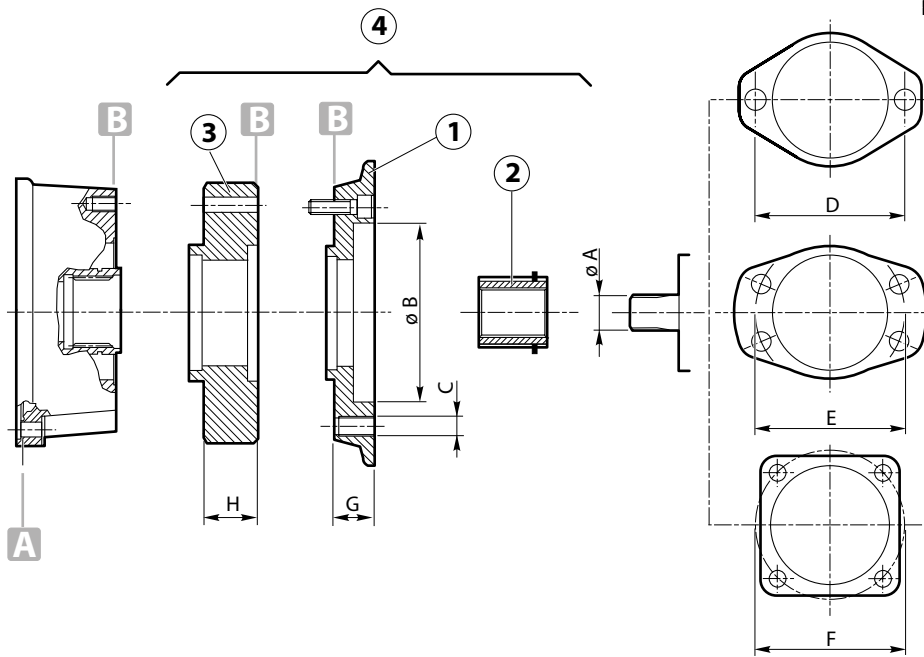
Upon request, brakes up to size F912 can be equipped with freewheeling clutch.



OMRS



| | | 20 | 30 | 40 | 45 | |
|--|------------------------|-----|-----|-----|-----|-----|
| RE 111 - 112 - 113 - 114 RE 211 - 212 - 213 - 214 RE 241 - 242 - 243 - 244 RE 312 - 313 - 314 RE 512 - 513 - 514 RE 613 - 614 RE 813 - 814 RE 1023 - 1024 RE 1523 - 1524 RE 2004 RE 2524 RE 3004 RE 3514-4804 RE 6004L RE 8005 - 8005L GB 12015 - 12015L GB 16005 - 16005L | Tb (Nm) | 220 | 308 | 396 | 459 | +5% |
| | pb (bar) | 24 | 24 | 24 | 26 | |
| | p max (bar) | 150 | | | | |
| | n1 max (RPM) | 700 | | | | |



| AXIAL PUMP | ϕA | ϕB | ϕC | ϕD | E | F | G | H | 1 | 2 | 3 | 4 |
|------------|-----------|----------|----------|----------|---|---|----|---|----------|----------|---|----|
| M1 15-21 | $\phi 19$ | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000659 | — | AQ |
| M2 24-50 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| M2 24-50 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| M3 40-65 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| M3 40-65 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |

| DANFOSS | ϕA | ϕB | ϕC | ϕD | E | F | G | H | 1 | 2 | 3 | 4 |
|------------------|--------------|----------|----------|----------|---|-----|------|----|----------|----------|----------|----|
| OMM | $\phi 16$ | 63 | M8 | 80 | — | — | 14 | — | 40000698 | 40000694 | — | CE |
| OMP 25-400 | $\phi 25$ | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| OMP 25-400 | $\phi 25.4$ | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| OMP 25-400 | 1" B6 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | AM |
| OMP 25-400 | $\phi 32$ | 82.55 | M12 | 106.4 | — | — | 38 | — | 2511001 | 40000665 | — | AD |
| OMR 50-375 | $\phi 25$ | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| OMR 50-375 | $\phi 25.4$ | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| OMR 50-375 | 1" B6 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | AM |
| OMR 50-375 | $\phi 32$ | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000665 | — | AD |
| OMH 200-500 | $\phi 32$ | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000665 | — | AD |
| OMH 200-500 | 12/24-14 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000672 | — | AE |
| OMS 80-400 | $\phi 31.75$ | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000664 | — | UL |
| OMS 80-400 | $\phi 32$ | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000665 | — | AD |
| OMS 80-400 | 12/24-14 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000672 | — | AE |
| OMS 80-400 SPEC. | 12/24-14 | 82.55 | M10 | 106.4 | — | — | 30 | — | 40000681 | 40000672 | — | CV |
| OMSS 80-400 | 12/24-12 | 100 | M10 | — | — | 125 | 21 | — | 02511017 | 02241030 | — | TR |
| OMTS 160-500 | 12/24-16 | 125 | M12 | 160 | — | — | 42 | — | 02511081 | 02241082 | — | UR |
| OMT 160-500 | 12/24-17 | 125 | M12 | — | — | 160 | 86 | — | 40001833 | 40000674 | — | CI |
| OMT 160-500 | $\phi 40$ | 125 | M12 | — | — | 160 | 78 | — | 02511041 | 02241051 | — | TW |
| OMT 160-500(US) | 12/24-17 | 127 | M12 | — | — | 150 | 79.5 | — | 02511166 | 40000674 | — | DF |
| OMV 315-800 | $\phi 50$ | 160 | M16 | — | — | 200 | 140 | — | 02511006 | 02591003 | — | VM |
| OMVS 315-800 | 10/20-16 | 125 | M12 | — | — | 160 | 66.5 | — | 02511085 | 02241086 | — | US |
| MTM | 12/24-17 | 127 | M12 | — | — | 162 | 29 | 38 | 02511108 | 40000674 | 02731111 | UY |

| EATON (CHAR-LYNN) | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|-------------------|----------|-------|-----|-------|-------|-----|-----|----|----------|----------|----------|----|
| SERIE 2000 | ø 25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| SERIE 2000 | Ø25 | 82.55 | M12 | | 106.4 | | 26 | | 40000680 | 40000649 | | BN |
| SERIE 2000 | ø 25.4 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| SERIE 2000 | ø 31.75 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000664 | — | AR |
| SERIE 2000 | ø 32 | 82.55 | M12 | 106.4 | — | — | 38 | — | 2511001 | 40000665 | — | AD |
| SERIE 2000 | 1"6B | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | AM |
| SERIE 2000 | 12/24-14 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000672 | — | AU |
| SERIE 4000 | 12/24-14 | 101.6 | M12 | | | | 127 | 20 | 40000635 | 40000672 | | EH |
| SERIE 4000 | 12/24-17 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000674 | — | BH |
| SERIE 6000 | 12/24-17 | 127 | M12 | — | — | 162 | 29 | 14 | 02511108 | 02971179 | 02731096 | CQ |
| SERIE 6000 | ø 40 | 127 | M12 | — | — | 162 | 29 | 38 | 02511108 | 02241057 | 02731111 | TV |
| SERIE 6000 | 8.5/17 | 127 | M12 | — | — | 162 | 29 | 38 | 02511108 | 02241076 | 02731111 | UH |

| HP HYDRAULIC | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|--------------|----------|-------|-----|-------|---|---|----|---|----------|----------|---|----|
| M4PV21-28 | ø 25.4 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000645 | — | AV |
| M4PV21-28 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| M4PV21-28 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| M4MF 21-28 | ø 25.4 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| M4MF 21-28 | 16/32-13 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000657 | — | AP |
| M4MF 21-28 | 16/32-15 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000671 | — | AT |
| M4PV 34-65 | ø 25.4 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000645 | — | AV |
| M4PV 34-65 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| M4PV 34-65 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| M4MF 34-65 | ø 25.4 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000645 | — | AV |
| M4MF 34-65 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| M4MF 34-65 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| M4MV 34-65 | ø 25.4 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000645 | — | AV |
| M4MV 34-65 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| M4MV 34-65 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |

| LINDE | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|-----------|----------|-------|-----|-------|---|---|----|---|----------|----------|---|----|
| HMF 35 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| HMF 50-75 | 16/32-21 | 127 | M16 | 181 | — | — | 34 | — | 02511108 | 40000654 | — | CF |
| HMF 105 | 16/32-23 | 127 | M16 | 181 | — | — | 34 | — | 40001811 | 40000686 | — | CH |
| HMF 135 | 16/32-27 | 152.4 | M20 | 228.5 | — | — | 35 | — | 40001844 | 02241123 | — | CZ |
| HMR 135 | 16/32-27 | 152.4 | M20 | 228.5 | — | — | 35 | — | 40001844 | 02241123 | — | CZ |
| BPV 70 | W35x2 | 127 | M12 | 162 | — | — | 25 | — | 02511108 | 40000670 | — | VK |

| M + S | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|--------------|----------|-------|-----|-------|---|-----|----|---|----------|----------|---|----|
| EPMM 8-50 | ø 14 | 63 | M8 | 80 | — | — | 14 | — | 40000698 | 40000658 | — | CD |
| EPM M 8-50 | ø 16 | 63 | M8 | 80 | — | — | 14 | — | 40000698 | 40000694 | — | CE |
| EPM 40-630 | ø 25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| EPM 40-630 | ø 25.4 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| EPM 40-630 | 1" 6B | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | AM |
| EPM 40-630 | 25/22-14 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000647 | — | AL |
| EPM 40-630 | 12/24-14 | 82.55 | M12 | 106.4 | — | — | 38 | — | 2511001 | 40000672 | — | AE |
| EPM 40-630 | ø 32 | 82.55 | M12 | 106.4 | — | — | 38 | — | 2511001 | 40000665 | — | AD |
| EPRM 50-400 | ø 25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| EPRM 50-400 | ø 25.4 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| EPRM 50-400 | 1" 6B | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | AM |
| EPRM 50-400 | 25/22-14 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000647 | — | AL |
| EPRM 50-400 | 12/24-14 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000672 | — | AE |
| EPRM 50-400 | ø 32 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000665 | — | AD |
| EPMS 80-400 | ø 31.75 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000664 | — | AC |
| EPMS 80-400 | ø 32 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000665 | — | AD |
| EPMS 80-400 | 12/24-17 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000674 | — | AF |
| EPMT 160-500 | 12/24-17 | 125 | M12 | — | — | 160 | 86 | — | 40001833 | 40000674 | — | CI |
| MTS 250 | 12/24-16 | 125 | M12 | 160 | | | 42 | | 02511081 | 02241082 | | UR |

| REXROTH | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|------------------|----------|-------|-----|-----|---|-------|-------|---|----------|----------|---|----|
| A2FE 45 | W30x2 | 160 | M16 | 200 | | | 107.5 | | 02511250 | 40000669 | | ER |
| A2FE 56 | W30x2 | 160 | M16 | 200 | | | 107.5 | | 02511250 | 40000669 | | ER |
| A2FE 80 | W35x3 | 190 | M20 | 224 | | | 133 | | 02511281 | 40000670 | | ES |
| A2FM 10-16 | ø 25 | 80 | M8 | — | — | 100 | 36.5 | — | 40001842 | 40000649 | — | CL |
| A2FM 10-16 | W25x1.25 | 80 | M8 | — | — | 100 | 36.5 | — | 40001842 | 40000668 | — | CM |
| A2FM 23-32 | ø 25 | 100 | M10 | — | — | 125 | 48 | — | 40000682 | 40000649 | — | BS |
| A2FM 23-32 | W25X1.25 | 100 | M10 | — | — | 125 | 48 | — | 40000682 | 40000668 | — | BT |
| A2FM 23-32 | W30x2 | 100 | M10 | — | — | 125 | 48 | — | 40000682 | 40000669 | — | BU |
| A2FM 45-63 | W30x2 | 125 | M12 | — | — | 160 | 44 | — | 40000684 | 40000669 | — | CA |
| A2FM 45-63 | W35x2 | 125 | M12 | — | — | 160 | 44 | — | 40000684 | 40000670 | — | CB |
| A2FM 80-90 | W35x2 | 140 | M12 | — | — | 180 | 53 | — | 40001852 | 40000670 | — | CN |
| A2FM 80-90 | W40x2 | 140 | M12 | — | — | 180 | 53 | — | 40001852 | 40001858 | — | CP |
| A2FM 107 | W40x2 | 160 | M16 | — | — | 200 | 56.5 | — | 02511039 | 40001858 | — | TP |
| A2FM 125 | W40x2 | 160 | M16 | — | — | 200 | 56.5 | — | 02511039 | 40001858 | — | TP |
| A2FM 160 | W50x2 | 180 | M16 | — | — | 224 | 62 | — | 02511109 | 02591102 | — | CT |
| A2FM 200 | W50x2 | 200 | M20 | — | — | 250 | 73 | — | 02511232 | 02591102 | — | DB |
| A4FM 22-28 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| A4FM 22-28 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| A4FM 40 | W30x2 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000669 | — | BA |
| A4FM 56 | W30x2 | 127 | M16 | 181 | — | — | 34 | — | 40001811 | 40000669 | — | CG |
| A10FM 23-28 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| A10FM 37-45 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| A6VM 28 | W25x1.25 | 100 | M10 | — | — | 125 | 48 | — | 40000682 | 40000668 | — | BT |
| A6VM 28 | W30x2 | 100 | M10 | — | — | 125 | 48 | — | 40000682 | 40000669 | — | BU |
| A6VM 55 | W30x2 | 125 | M12 | — | — | 160 | 44 | — | 40000684 | 40000669 | — | CA |
| A6VM 55 | W35x2 | 125 | M12 | — | — | 160 | 44 | — | 40000684 | 40000670 | — | CB |
| A6VM 80 | W35x2 | 140 | M12 | — | — | 180 | 53 | — | 40001818 | 40000670 | — | CN |
| A6VM 80 | W40x2 | 140 | M12 | — | — | 180 | 53 | — | 40001818 | 40001858 | — | CP |
| A6VM 107 | W45x2 | 160 | M16 | — | — | 200 | 56.5 | — | 02511039 | 02591073 | — | VN |
| A6VM 140 | W45x2 | 180 | M16 | — | — | 224 | 62 | — | 02511109 | 02591073 | — | VQ |
| A6VM 160 | W45x2 | 180 | M16 | — | — | 224 | 62 | — | 02511109 | 02591073 | — | VQ |
| A6VM 160 | W50x2 | 180 | M16 | — | — | 224 | 62 | — | 02511109 | 02591102 | — | CT |
| A6VM 250 | W50x2 | 200 | M20 | — | — | 250 | 73 | — | 02511232 | 02591102 | — | DB |
| AA6VM 55, 80 | 12/24-12 | 127 | M14 | — | — | 162 | 29 | — | 02511108 | 40000672 | — | BG |
| AA6VM 107, 160 | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 41 | — | 40001844 | 02241043 | — | UX |
| AA2FM 10, 12, 16 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| AA2FM 23, 28, 32 | 12/24-12 | 127 | M12 | — | — | — | 29 | — | 02511108 | 40000672 | — | BG |
| AA2FM 45, 56, 63 | 12/24-12 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000672 | — | BG |
| AA2FM 80, 90 | 12/24-12 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000672 | — | BG |
| AA2FM 56, 63 | 16/32-21 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000654 | — | BD |
| AA2FM 80, 90 | 16/32-21 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000654 | — | BD |
| AA2FM 107, 125 | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 41 | — | 40001844 | 02241043 | — | UX |
| AA2FM 160, 180 | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 41 | — | 40001844 | 02241043 | — | UX |

| SAE STANDARD | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|--------------|----------|-------|-----|-------|---|---|----|---|----------|----------|---|---|
| SAE A | ø 25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | — |
| | ø 25.4 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | — |
| | ø 31.75 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000664 | — | — |
| | ø 32 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000665 | — | — |
| | 1" 6B | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | — |
| | 12/24-14 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000672 | — | — |
| SAE B | ø 25 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000649 | — | — |
| | ø 25.4 | 101.6 | M14 | 148 | — | — | 20 | — | 40000635 | 40000645 | — | — |
| | ø 31.75 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000664 | — | — |
| | ø 32 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000665 | — | — |
| | 1" 6B | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000648 | — | — |
| | 12/24-14 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000672 | — | — |

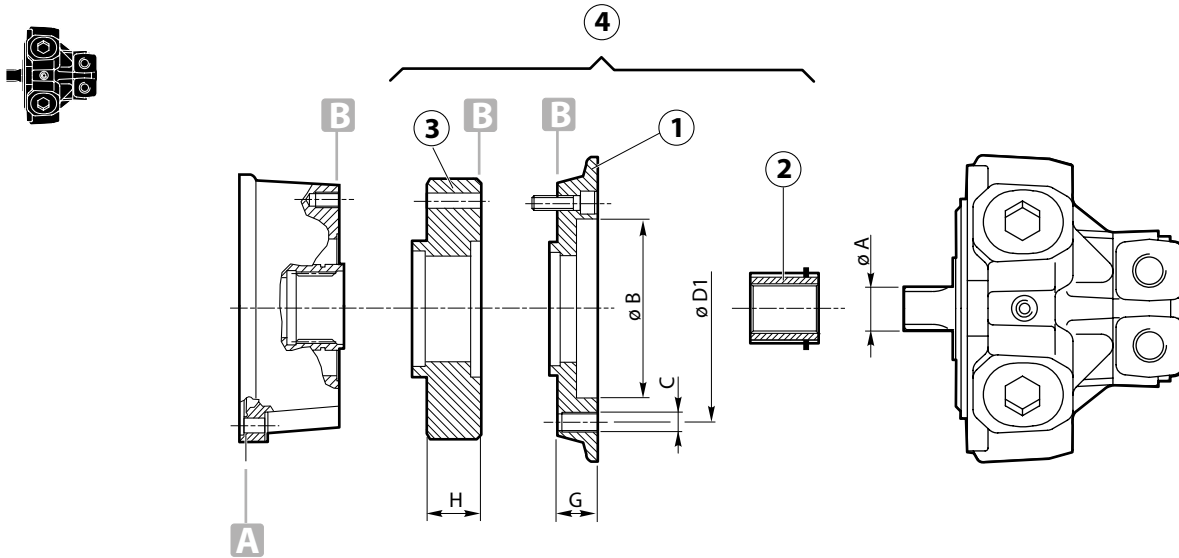
| SAE STANDARD | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|--------------|----------|-------|-----|----|-------|-----|----|---|----------|----------|---|---|
| MAGNETO | ø 25 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000649 | — | — |
| | ø 25.4 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000645 | — | — |
| | ø 31.75 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000664 | — | — |
| | ø 32 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000665 | — | — |
| | 1" 6B | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000648 | — | — |
| | 12/24-14 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000672 | — | — |
| SAE C | ø 31.75 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000664 | — | — |
| | 12/24-14 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000672 | — | — |
| | 12/24-17 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000674 | — | — |

| SAMHYDRAULIK | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|--------------|----------|-------|-----|-------|---|-----|------|---|----------|----------|---|----|
| BGM 13-50 | ø16 | 63 | M8 | 80 | — | — | 14 | — | 40000698 | 40000694 | — | CE |
| BG 40-400 | ø25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| BG 40-400 | ø25.4 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| BG 40-400 | 1" 6B | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | AM |
| AGF 50-400 | ø25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| ARF 50-400 | ø25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| BR 50-400 | ø25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| BR 50-400 | ø25.4 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| BR 50-400 | ø31.75 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000664 | — | AR |
| BR 50-400 | ø 32 | 82.55 | M12 | 106.4 | — | — | 38 | — | 20300047 | 40000665 | — | AS |
| BR 50-400 | 1" 6B | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | AM |
| H1C 12 | Ø20 | 80 | M8 | — | — | 100 | 36.5 | — | 02971201 | 02591008 | — | CS |
| H1C 30 | W25x1,25 | 100 | M10 | — | — | 125 | 31 | — | 02511221 | 40000668 | — | DW |
| H1C 55 | 12/24-17 | 127 | M14 | — | — | 162 | 29 | — | 40000653 | 40000672 | — | UT |
| H1C 55 | W30x2 | 125 | M12 | — | — | 160 | 44 | — | 40000684 | 40000669 | — | CA |
| H1C 55 | Ø30 | 125 | M12 | — | — | 160 | 44 | — | 40000684 | 02591040 | — | DU |
| H1C 75 | W35x2 | 140 | M12 | — | — | 180 | 53 | — | 40001818 | 40000670 | — | TQ |
| H1C 90-108 | W40x2 | 160 | M16 | — | — | 200 | 57 | — | 02511039 | 40001858 | — | TP |
| H1C 90-108 | Ø40 | 160 | M16 | — | — | 200 | 56.5 | — | 02511039 | 02241057 | — | EF |
| H1C 160 | W45x2 | 180 | M16 | — | — | 224 | 62 | — | 02511109 | 02591073 | — | VQ |
| HPR 80-400 | ø31.75 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000664 | — | AC |
| HPR 80-400 | ø 32 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000665 | — | AD |
| HPR 80-400 | 12/24-14 | 82.55 | M12 | 106.4 | — | — | 38 | — | 02511001 | 40000672 | — | AE |
| H2V 55 | W30x2 | 125 | M12 | — | — | 160 | 44 | — | 40000684 | 40000669 | — | CA |
| H2V 160 | W45x2 | 180 | M16 | — | — | 224 | 62 | — | 02511109 | 02591073 | — | VQ |

| SAUER | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|--------------|----------|-------|-----|-----|---|--------|------|---|----------|-----------|---|----|
| SMF2 033-070 | 16/32-21 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000654 | — | BD |
| SMF2 089 | 16/32-23 | 127 | M14 | — | — | 162 | 29 | — | 40000653 | 40000686 | — | BI |
| M25MF | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| M35MF | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| M35/M44 MF | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| M44MF | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| M46MF | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| 51D 80 | W40x2 | 140 | M12 | — | — | 180 | 53 | — | 40001818 | 40001858 | — | CP |
| 51D 110 | W40x3 | 160 | M16 | — | — | 200 | 56.5 | — | 02511039 | 40001858 | — | TP |
| 51V 080 | 12/24-14 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000672 | — | BG |
| 51V 080 | 16/32-23 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000686 | — | BI |
| 51V 110/160A | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 40 | — | 02511164 | 02631152 | — | 8X |
| 51V 160/A | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 40 | — | 40001844 | 02241043 | — | UX |
| 51V 250 | 16/32-27 | 161.5 | M20 | — | — | 317.15 | 35 | — | 02511147 | 02241123 | — | EJ |
| 90M 030 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| 90M 030 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| 90M 042 | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| 90M 042 | 16/32-15 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000671 | — | BB |
| 90M 055 | 16/32-21 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000654 | — | BD |
| 90M 075 | 16/32-21 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000654 | — | BD |
| 90M 100 | 16/32-23 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000686 | — | BI |
| 90M 100 | 8/16-13 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 02241013 | — | EV |
| 90M 130 | 8/16-Z13 | 152.4 | M20 | — | — | 228.5 | 40 | — | 40001844 | 022411043 | — | UX |

| VOAC | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|------------------|----------|-------|-----|-------|---|-----|------|----|----------|----------|---------|----|
| F11-150 SAE | 8/16-13 | 152.4 | M20 | 228.5 | — | — | 41 | — | 40001844 | 02241043 | — | UX |
| F12-30 SAE | ø25.4 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000645 | — | AV |
| F12-30 SAE | 16/32-13 | 101.6 | M14 | 146 | — | — | 20 | — | 40000635 | 40000657 | — | AZ |
| F12-40 SAE | ø31.75 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000664 | — | BF |
| F12-40 SAE | 12/24-14 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000672 | — | BG |
| F12-60 SAE | ø31.75 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000664 | — | BF |
| F12-60 SAE | 12/24-14 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000672 | — | BG |
| F12-80 SAE | 12/24-17 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000674 | — | BH |
| V12-60 SAE | 12/24-14 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000672 | — | BG |
| V12-80 SAE | 12/24-14 | 127 | M12 | — | — | 162 | 29 | — | 02511108 | 40000672 | — | BG |
| F12-110 SAE | 8/16-13 | 152.4 | M20 | 228.5 | — | — | 41 | — | 40001844 | 02241043 | — | UX |
| V14-160 ISO | W45x2 | 180 | M16 | 224 | — | — | 62 | — | 02511109 | 02591073 | — | VQ |
| F12-80 ISO | ø40 | 140 | M12 | — | — | 180 | 53 | 38 | 40001852 | 02241057 | 2731111 | UW |
| TK | 12/24-17 | 127 | M12 | — | — | 162 | 29 | 14 | 02511108 | 40000674 | 2731096 | CQ |
| F12-30 ISO | W30x2 | 100 | M10 | — | — | 125 | 48 | — | 40000682 | 40000669 | — | BU |
| F12-40 MF-HI ISO | W30x2 | 125 | M12 | 160 | — | — | 44 | — | 40000684 | 40000669 | — | CA |
| F12-60 ISO | W35x2 | 125 | M12 | — | — | 160 | 44 | — | 40000684 | 40000670 | — | CB |
| F12-80 ISO | W40x2 | 140 | M12 | — | — | 180 | 53 | — | 40001852 | 40001858 | — | CP |
| F12-110 ISO | W45x2 | 160 | M16 | 200 | — | — | 56.5 | — | 02511039 | 02591073 | — | VN |

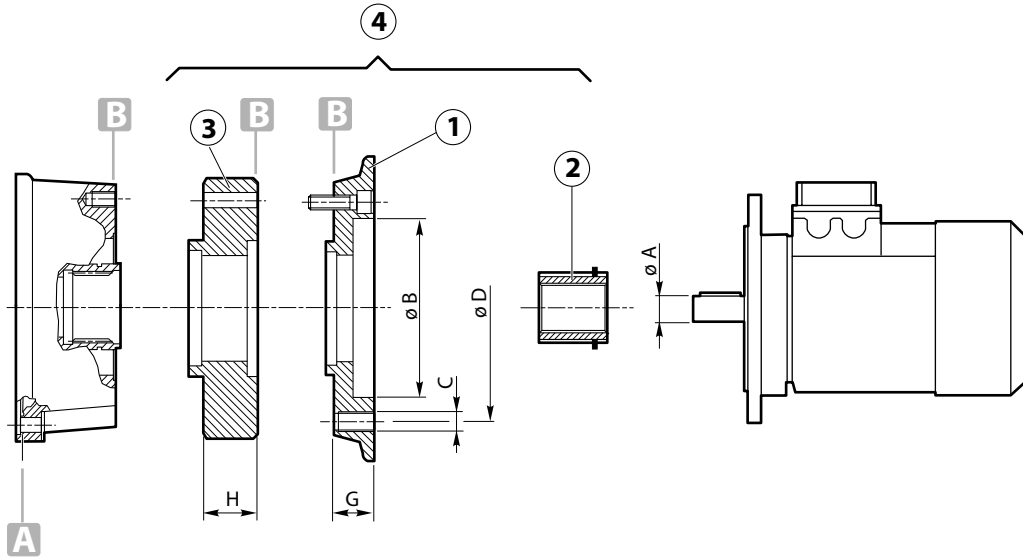
| WHITE | øA | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|----------|----------|-------|-----|-------|-------|---|----|---|----------|----------|---|----|
| RS 03-24 | ø25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| RS 03-24 | ø25.4 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| RS 03-24 | 1" 6B | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | AM |
| HB 03-24 | ø25 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000649 | — | AN |
| HB 03-24 | ø25.4 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000645 | — | AI |
| HB 03-24 | ø31.75 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000664 | — | AR |
| HB 03-24 | ø32 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000665 | — | AS |
| HB 03-24 | 1" 6B | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000648 | — | AM |
| HB 03-24 | 12/24-14 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000672 | — | AU |
| HB 03-24 | 16/32-13 | 82.55 | M12 | 106.4 | — | — | 26 | — | 20300047 | 40000657 | — | AP |
| RE 07-45 | ø25 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000649 | — | BN |
| RE 07-45 | ø25.4 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000645 | — | BL |
| RE 07-45 | ø31.75 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000664 | — | BP |
| RE 07-45 | ø32 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000665 | — | BQ |
| RE 07-45 | 1" 6B | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000648 | — | BM |
| RE 07-45 | 12/24-14 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000672 | — | BR |
| DR 12-46 | ø25 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000649 | — | BN |
| DR 12-46 | ø25.4 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000645 | — | BL |
| DR 12-46 | ø31.75 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000664 | — | BP |
| DR 12-46 | ø32 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000665 | — | BQ |
| DR 12-46 | 1" 6B | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000648 | — | BM |
| DR 12-46 | 12/24-14 | 82.55 | M12 | — | 106.4 | — | 26 | — | 40000680 | 40000672 | — | BR |



| INTERMOT | ϕA | ϕB | C | $\phi D1$ | E | F | G | H | 1 | 2 | 3 | 4 |
|----------|-----------|----------|-----|-----------|---|---|------|----|----------|----------|----------|----|
| G34/A-AA | $\phi 30$ | 82.55 | M12 | 106.4 | — | — | 10.5 | 26 | 02511082 | 2591040 | 02511018 | UM |
| G 100 | W40x2 | 125 | M8 | 175 | — | — | 44 | — | 02511282 | 40001858 | — | EQ |
| G 100 | A40x36 | 125 | M8 | 175 | — | — | 44 | — | 02511282 | 40001858 | — | ET |
| IAM 195 | 6x26x32 | 172 | M10 | 190 | — | — | 39.5 | — | 02511170 | 40001829 | — | DE |

| SAI | ϕA | ϕB | C | $\phi D1$ | E | F | G | H | 1 | 2 | 3 | 4 |
|-------------|-----------|----------|-----|-----------|---|---|------|---|----------|----------|---|----|
| BD2 | W40x2 | 150 | M12 | 250 | — | — | 38 | — | 02511070 | 02591049 | — | UE |
| BV2 | W40x2 | 150 | M12 | 250 | — | — | 38 | — | 02511070 | 02591049 | — | UE |
| GM05 40-200 | 28x34x6 | 125 | M10 | 160 | — | — | 40 | — | 02511045 | 40000646 | — | TZ |
| GM05 40-200 | 35x2x16 | 125 | M10 | 160 | — | — | 40 | — | 02511045 | 40000670 | — | TT |
| GM05 40-200 | $\phi 30$ | 125 | M10 | 160 | — | — | 40 | — | 02511045 | 02591040 | — | TM |
| GM1 100-320 | 28x34x6 | 175 | M12 | 210 | — | — | 29 | — | 02971466 | 40000646 | — | VB |
| GM1 100-320 | 35x2x16 | 175 | M12 | 210 | — | — | 29 | — | 02971466 | 40000670 | — | TJ |
| GM2 200-630 | 40x3x12 | 150 | M12 | 250 | — | — | 38 | — | 02511070 | 02591044 | — | UB |
| GM2 200-630 | 36x40 | 150 | M12 | 250 | — | — | 38 | — | 02511070 | 02591063 | — | VA |
| GM3 | W40x3 | 265 | M18 | 310 | — | — | 43.5 | — | 02511151 | 02591044 | — | DS |

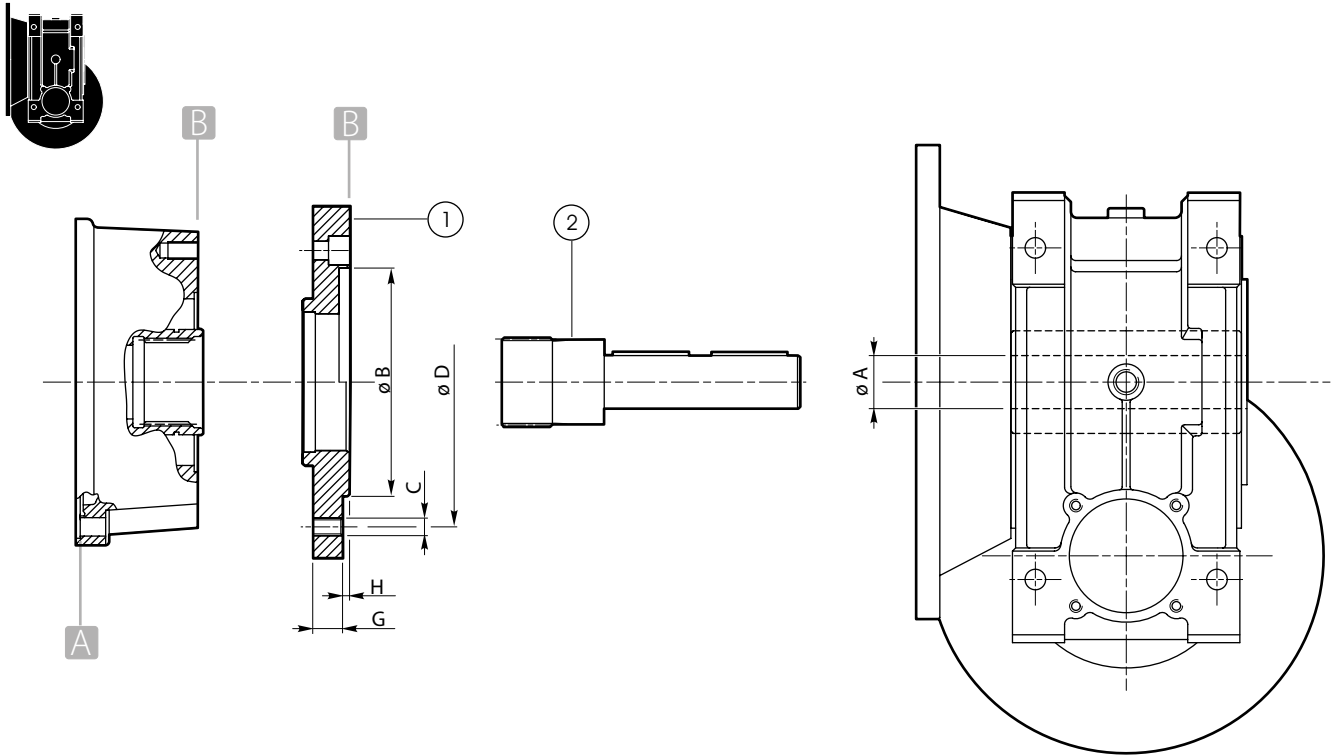
| CALZONI | ϕA | ϕB | ϕC | $\phi D1$ | E | F | G | H | 1 | 2 | 3 | 4 |
|------------|----------|----------|----------|-----------|---|---|----|---|----------|----------|---|----|
| MR 250-300 | 42x48x8 | 175 | M10 | 232 | — | — | 92 | — | 02511030 | 02591016 | — | FA |



| IEC | øA | øB | C | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|-------------------|-----|-----|------|-----|---|---|------|----|----------|----------|----------|----|
| 63 B5 | ø11 | 95 | M8 | 115 | — | — | 20 | — | 02511000 | 02591001 | — | TL |
| 71 B5 | ø14 | 110 | M8 | 130 | — | — | 16 | — | 40000690 | 40000658 | — | CC |
| 80 B5 | ø19 | 130 | M10 | 165 | — | — | 16 | — | 40000683 | 40000659 | — | BV |
| 90 B5 | ø24 | 130 | M10 | 165 | — | — | 16 | — | 40000683 | 40000660 | — | BZ |
| 100 B5 ø24 | ø24 | 180 | M12 | 215 | — | — | 16 | — | 02511018 | 40000660 | — | UÀ |
| 100/112 B5 | ø28 | 180 | M12 | 215 | — | — | 24.5 | — | 02511018 | 40000661 | — | AH |
| 112 B5 | ø38 | 180 | M12 | 215 | — | — | 24 | 38 | 02511018 | 02241029 | 02731111 | UU |
| 132 B5 | ø38 | 230 | M12 | 265 | — | — | 49 | — | 02511016 | — | — | AG |
| 132 B14 | ø38 | 130 | ø 11 | 165 | — | — | 69 | — | 02511076 | — | — | UF |
| 200 B5 | ø55 | 300 | M18 | 350 | — | — | 130 | — | 02511067 | 02241066 | — | TX |

| NEMA | øA | øB | C | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|-------------------|--------------------|-------------------|----------------|------------------|---|---|-----------------|---|----------|----------|---|----|
| 56 H | ø15.88 (0.625) | 114.3 (4.500) | Ø10 (0.394) | 149.2 (5.874) | — | — | 53 (2.087) | — | 02511122 | 02591085 | — | VX |
| 143-145 TC | ø22.22 (0.875) | 114.3 (4.500) | Ø10 (0.394) | 149.2 (5.874) | — | — | 53 (2.087) | — | 02511122 | 02591084 | — | VZ |
| 182-184 TC | ø28.57 (1.125) | 215.9 (8.500) | Ø14 (0.551) | 206 (8.110) | — | — | 38 (1.496) | — | 02511073 | 02591045 | — | UC |
| 213-215 TC | ø34.925 (1.375) | 215.9 (8.500) | Ø14 (0.551) | 184.5 (7.264) | — | — | 55.5 (2.185) | — | 02511037 | 02241048 | — | VT |
| 254-256 TC | ø41.275 (1.625) | 215.9 (8.500) | Ø14 (0.551) | 150 (5.906) | — | — | 70 (2.756) | — | 02511141 | 02241131 | — | VJ |
| 284-286 TC | ø47.625 (1.875) | 266.7 (10.500) | Ø14 (0.551) | 228.6 (9.000) | — | — | 86 (3.386) | — | 02511142 | 02241132 | — | CR |

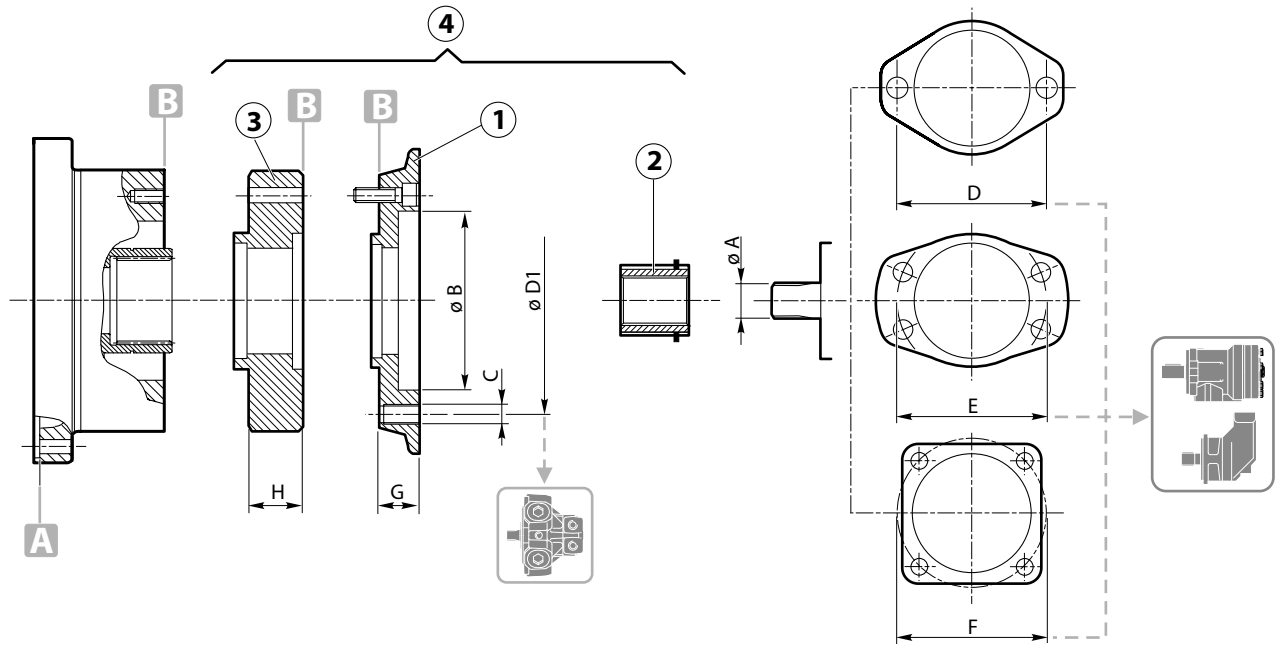
mm (inch)



| VARVEL | $\varnothing A$ | $\varnothing B$ | $\varnothing C$ | $\varnothing D$ | E | F | G | H | 1 | 2 | 3 | 4 |
|------------|-----------------|-----------------|-----------------|-----------------|---|---|------|---|----------|----------|---|----|
| FRS 50 FL | Ø24 | 110 | M10 | 130 | — | — | 16 | — | 02511022 | 40000660 | — | VR |
| FRS 60 FL | Ø25 | 115 | M10 | 150 | — | — | 16 | — | 02511095 | 40000649 | — | UZ |
| FRS 70 FL | Ø28 | 130 | M12 | 165 | — | — | 13.5 | — | 40000644 | 40000650 | — | TI |
| FRS 85 FL | Ø32 | 130 | M12 | 165 | — | — | 13.5 | — | 40000644 | 40000655 | — | TG |
| FRS 130 PC | Ø48 | 180 | Ø13 | 215 | — | — | 20 | — | 40001804 | 40000652 | — | VI |

| STM | $\varnothing A$ | $\varnothing B$ | $\varnothing C$ | $\varnothing D$ | E | F | G | H | 1 | 2 | 3 | 4 |
|------------|-----------------|-----------------|-----------------|-----------------|---|---|------|---|----------|----------|---|----|
| RMI 50 FL | Ø24 | 110 | M10 | 130 | — | — | 16 | — | 02511022 | 40000660 | — | VR |
| RMI 60 FL | Ø25 | 115 | M10 | 150 | — | — | 16 | — | 02511095 | 40000649 | — | UZ |
| RMI 70 FL | Ø28 | 130 | M12 | 165 | — | — | 13.5 | — | 40000644 | 40000650 | — | TI |
| RMI 85 FL | Ø32 | 130 | M12 | 165 | — | — | 13.5 | — | 40000644 | 40000655 | — | TG |
| RMI 110 F1 | Ø42 | 130 | M10 | 165 | — | — | 17 | — | 40001810 | 40001809 | — | VH |
| RMI 130 P | Ø48 | 180 | Ø13 | 215 | — | — | 20 | — | 40001804 | 40000652 | — | VI |
| RMI 150 P | Ø55 | 180 | Ø13 | 215 | — | — | 20 | — | 40001804 | 40001808 | — | EN |

| MOTOVARIO | $\varnothing A$ | $\varnothing B$ | $\varnothing C$ | $\varnothing D$ | E | F | G | H | 1 | 2 | 3 | 4 |
|-----------|-----------------|-----------------|-----------------|-----------------|---|---|------|---|----------|----------|---|----|
| NMRV 110 | Ø42 | 180 | M12 | 215 | — | — | 24.5 | — | 02511018 | 40001890 | — | FE |
| NMRV 90 | Ø35 | 130 | M10 | 165 | — | — | 17 | 4 | 40001810 | 02591038 | — | UQ |



| CALZONI | A | ØB | ØC | ØD1 | E | F | G | H | 1 | 2 | 3 | 4 |
|---------|---------|-----|-----|-----|---|---|------|---|----------|----------|---|----|
| MR700 | 8x52x60 | 220 | M12 | 290 | — | — | 55.5 | — | 02511229 | 02591156 | — | 4J |

| DANFOSS | A | ØB | ØC | ØD | E | F | G | H | 1 | 2 | 3 | 4 |
|-------------|----------|-----|-----|----|---|-----|------|---|-----------|-----------|---|----|
| OMV | 16/32-16 | 160 | M16 | — | — | 200 | 73 | — | 025110102 | 025910102 | — | 5U |
| OMT 160-500 | 12/24-17 | 125 | M12 | — | — | 160 | 66.5 | — | 025110117 | 02591123 | — | 3I |
| OMT 160-500 | Ø40 | 125 | M12 | — | — | 160 | 66.5 | — | 025110117 | 025910109 | — | 7W |

| EATON | A | ØB | ØC | ØD | E | F | G | H | 1 | 2 | 3 | 4 |
|------------|----------|-----|-----|----|---|-----|----|---|----------|----------|---|----|
| SERIE 6000 | 12/24-17 | 127 | M14 | — | — | 162 | 29 | — | 02511192 | 02591123 | — | 3Q |
| SERIE 6000 | 12/24-14 | 127 | M12 | — | — | 162 | 37 | — | 02511192 | 02591163 | — | 2G |

| INTERMOT | A | ØB | ØC | ØD1 | E | F | G | H | 1 | 2 | 3 | 4 |
|----------------|---------|-----|-----|-----|---|---|------|---|----------|----------|---|----|
| IAM H3 400-700 | 36x42x8 | 230 | M14 | 254 | — | — | 43 | — | 02511197 | 02591128 | — | 8I |
| IAM300 | 8x32x38 | 190 | M12 | 210 | — | — | 38.5 | — | 02511248 | 02591166 | — | 4N |

| LINDE | A | ØB | ØC | ØD | E | F | G | H | 1 | 2 | 3 | 4 |
|---------|----------|-------|-----|-------|---|---|----|---|----------|----------|---|----|
| HMF 135 | 16/32-27 | 152.4 | M20 | 228.5 | — | — | 35 | — | 02511164 | 02631166 | — | 3Z |
| HMR 135 | 16/32-27 | 152.4 | M20 | 228.5 | — | — | 35 | — | 02511164 | 02631166 | — | 3Z |
| HMF 105 | 16/32-23 | 127 | M16 | 181 | — | — | 34 | — | 02511192 | 02631203 | — | 3H |

| M+S | A | ØB | ØC | ØD | E | F | G | H | 1 | 2 | 3 | 4 |
|--------------|----------|-----|-----|----|---|-----|------|---|-----------|-----------|---|----|
| EPMT 160-500 | 12/24-17 | 125 | M12 | — | — | 160 | 66.5 | — | 025110117 | 02591123 | — | 3I |
| EPMT 160-500 | Ø40 | 125 | M12 | — | — | 160 | 66.5 | — | 025110117 | 025910109 | — | 7W |

| REXROTH | A | ØB | ØC | ØD | E | F | G | H | 1 | 2 | 3 | 4 |
|----------------|---------|-------|------|----|---|-------|------|---|----------|----------|---|----|
| A2FM 107 | W40x2 | 160 | M16 | — | — | 200 | 51.5 | — | 02511230 | 02631193 | — | 3U |
| A2FM 160 | W50x2 | 180 | M16 | — | — | 224 | 62 | — | 02511163 | 02631150 | — | 3T |
| A2FM 200 | W50x2 | 200 | M20 | — | — | 250 | 73 | — | 02511165 | 02631150 | — | 4B |
| A6VM 107 | W45x2 | 160 | M16 | — | — | 200 | 53 | — | 02511167 | 02631160 | — | 9N |
| A6VM 160 | W45x2 | 180 | M16 | — | — | 224 | 62 | — | 02511163 | 02631151 | — | 9Q |
| A6VM 160 | W50x2 | 180 | M16 | — | — | 224 | 62 | — | 02511163 | 02631150 | — | 3T |
| A6VM 250 | W50x2 | 200 | M 20 | — | — | 250 | 73 | — | 02511165 | 02631150 | — | 4B |
| A6VM 355 | W60x2 | 280 | M16 | — | — | 320 | 84.5 | — | 02511261 | 02631210 | — | 5L |
| AA6VM 107, 160 | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 40 | — | 02511164 | 02631152 | — | 8X |
| AA2FM 107, 125 | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 40 | — | 02511164 | 02631152 | — | 8X |
| AA2FM 160, 180 | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 40 | — | 02511164 | 02631152 | — | 8X |

| SAI | A | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|-----|---------|-----|-----|-----|---|---|------|---|----------|----------|---|----|
| GM1 | 28x34x6 | 175 | M12 | 210 | — | — | 29 | — | 02511263 | 02591176 | — | 6B |
| GM2 | 36x40 | 150 | M12 | 250 | — | — | 38 | — | 02511209 | 02591141 | — | 9A |
| GM2 | W40x3 | 150 | M12 | 250 | — | — | 38 | — | 02511209 | 02591170 | — | 8B |
| GM3 | W40x3 | 265 | M18 | 310 | — | — | 43.5 | — | 02511151 | 02591044 | — | 4S |

| SAMHYDRAULIK | A | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|--------------|-------|-----|-----|----|---|-----|----|---|----------|----------|---|----|
| H1C 160 M | W45x2 | 180 | M16 | — | — | 224 | 62 | — | 02511039 | 02631151 | — | 9Q |
| H1C 226 M | W50x2 | 200 | M20 | — | — | 250 | 73 | — | 02511165 | 02631150 | — | 4B |
| H2V 160 M | W45x2 | 180 | M16 | — | — | 224 | 62 | — | 02511163 | 02631151 | — | 9Q |

| SAUER | A | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|---------|----------|-------|------|----|---|-------|----|---|----------|----------|---|----|
| 51V250 | 16/32-27 | 165.1 | M20 | — | — | 317.5 | 38 | — | 02511201 | 02631166 | — | 5J |
| 90M 130 | 8/16-13 | 152.4 | M 20 | — | — | 228.5 | 40 | — | 02511164 | 02631152 | — | 8X |

| VOAC | A | øB | øC | øD | E | F | G | H | 1 | 2 | 3 | 4 |
|--------------|---------|-------|------|-----|---|-------|----|---|----------|----------|---|----|
| F11-50 CETOP | W45x2 | 200 | M20 | 250 | — | — | 73 | — | 02511165 | 02631151 | — | 5P |
| F11-150 SAE | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 40 | — | 02511164 | 02631152 | — | 8X |
| F12-110 SAE | 8/16-13 | 152.4 | M20 | — | — | 228.5 | 40 | — | 02511164 | 02631152 | — | 8X |
| V14-160 ISO | W45x2 | 180 | M16 | — | — | 224 | 62 | — | 02511163 | 02631151 | — | 9Q |
| F12-110 ISO | W45x2 | 160 | M116 | — | — | 200 | 53 | — | 02511167 | 02631160 | — | 9N |

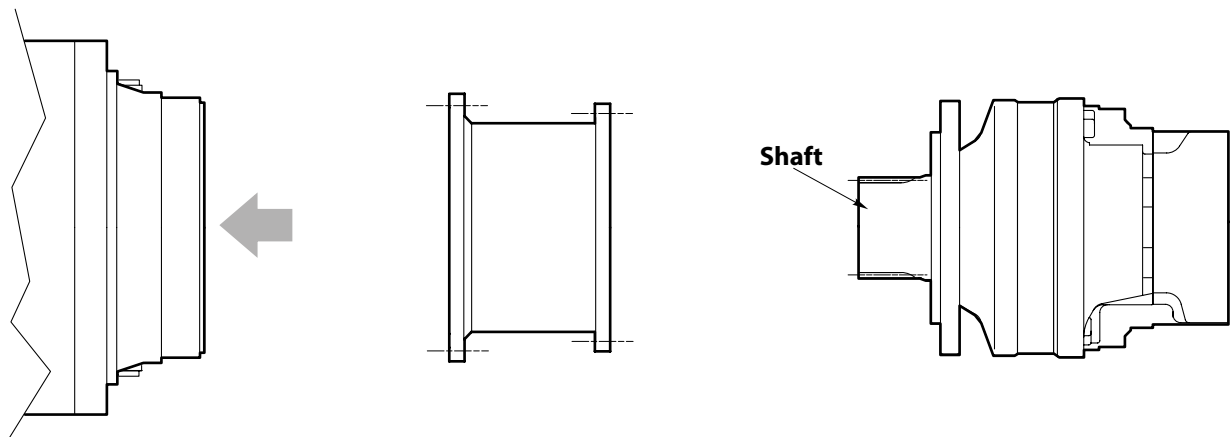
Direct motor adapters available for:

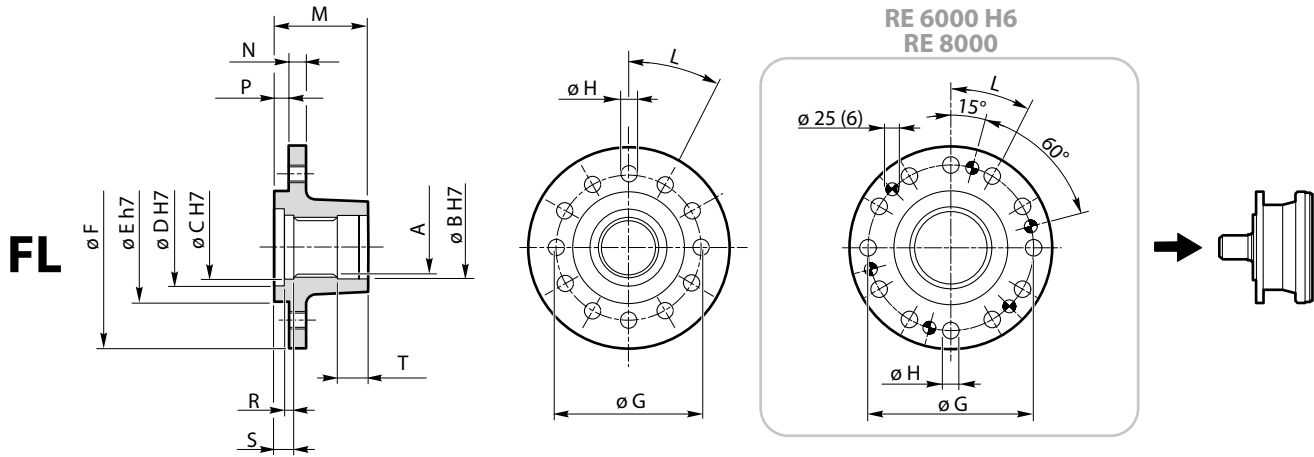
| KAWASAKY | Shaft |
|--------------------------|----------|
| KAWASAKY HMC 80 | 6/12-14 |
| KAWASAKY HMC/HMB/HPC 125 | 6/12-20 |
| KAWASAKY HMB 200 | 6/12 -14 |
| KAWASAKY HMB 200 | W85x3 |

| POCLAIN | Shaft |
|------------|-------------------------|
| MS08/MSE08 | W70x3 |
| MS18/MSE18 | W90x3 |
| MS18/MSE18 | NF E-22 141 (m2.5 z34) |
| MS50 | NF E-22 141 (m3.75 z33) |
| MS02/MSE02 | W50x2 |

| SAI | Shaft |
|-------|---------|
| GM3 | W40x3 |
| GM3 | 8x46x54 |
| GM4/5 | 8x56x65 |
| GM4/5 | W65x3 |
| GM6 | N80x3 |

| POCLAIN HYDROBASE | Shaft |
|-------------------|------------------------|
| MS18/MSE18 | NF E-22 141 (m2.5 z34) |
| MS35 | NF E-22 141 (m2.5 z34) |
| MS50 | NF E-22 141 (m2.5 z38) |



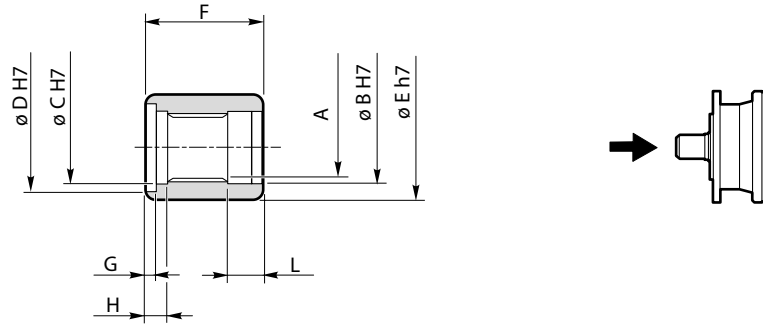


| | VERSION | A | $\varnothing B$ | $\varnothing C$ | $\varnothing D$ | $\varnothing E$ | $\varnothing F$ | $\varnothing G$ | $\varnothing H$ | L |
|-------------------|----------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----|
| RE 110-210 | N-P-T-TR | A40x36 DIN 5482 | 42 | 42 | 52 | 75 | 135 | 98 | M12x1.5 (4) | 90° |
| RE 240 | T-TR | A58x53 DIN 5482 | 60 | 60 | — | 95 | 165 | 145 | 12.5 (12) | 30° |
| RE 310-510-610 | N-P-T-TL | A58x53 DIN 5482 | 60 | 60 | — | 95 | 165 | 145 | 12.5 (12) | 30° |
| RE 810 | N-P-T | A70x64 DIN 5482 | 72 | 72 | — | 125 | 208 | 175 | 19(12) | 30° |
| RE 1020-1520-2000 | T-H | A80x74 DIN 5482 | 85 | 85 | — | 125 | 208 | 175 | 19(12) | 30° |
| RE 2520-3000 | H | A100x94 DIN 5482 | 105 | 105 | — | 170 | 254 | 212 | 21 (12) | 30° |
| RE 3510-4800 | H | N 120x3 DIN 5480 | 124 | 130 | — | 160 | 298 | 250 | 21 (12) | 30° |
| RE 6000 | H | N 120x3 DIN 5480 | 120 | 120 | — | 200 | 308 | 260 | 25 (12) | 30° |
| RE 6000 | H6 | N 150x5 DIN 5480 | 151 | 151 | — | 240 | 385 | 320 | 32 (12) | 30° |
| RE 8000 | H | N 150x5 DIN 5480 | 151 | 151 | — | 240 | 385 | 320 | 32 (12) | 30° |
| GB 12010-16000 | H | N 170x5 DIN 5480 | 170 | 175 | — | 250 | 450 | 400 | 28 (18) | 20° |
| GB 21000 | H | N220x5 DIN 5480 | 220 | 230 | — | 315 | 500 | 450 | 32 (18) | 20° |

| | VERSION | M | N | P | R | S | T | CODE |
|-------------------|----------|------|----|----|-----|------|------|----------|
| RE 110-210 | N-P-T-TR | 63 | 12 | 10 | 7.5 | 13.5 | 20.5 | 40000618 |
| RE 240 | T-TR | 74 | 14 | 10 | 8 | — | 24 | 02571148 |
| RE 310-510-610 | N-P-T-TL | 74 | 14 | 16 | 8 | — | 24 | 02571148 |
| RE 810 | N-P-T | 90 | 21 | 14 | 10 | — | 29 | 40001838 |
| RE 1020-1520-2000 | T-H | 90.5 | 21 | 14 | 9.5 | — | 30.5 | 40001848 |
| RE 2520-3000 | H | 110 | 24 | 20 | 12 | — | 37 | 40001851 |
| RE 3510-4800 | H | 150 | 30 | 20 | 28 | — | 29 | 02571068 |
| RE 6000 | H | 125 | 31 | 19 | 11 | — | 30 | 02571054 |
| RE 6000 | H6 | 150 | 35 | 25 | 11 | — | 33 | 02571063 |
| RE 8000 | H | 150 | 35 | 25 | 11 | — | 33 | 02571063 |
| GB 12010-16000 | H | 163 | 42 | 48 | 14 | — | 42 | 02571048 |
| GB 21000 | H | 205 | 47 | 70 | 16 | — | 51.5 | 02571049 |

On demand for different size

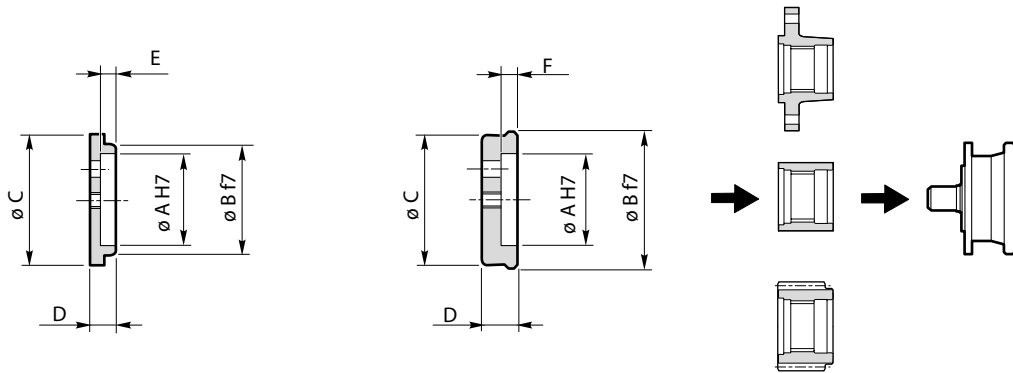
BS



| | VERSION | A | ø B | ø C | ø D | ø E | F | G | H | L | CODE |
|-------------------|----------|--------------------|-----|-----|-----|-----|-------|----|------|------|----------|
| RE 110-210 | N-P | A40x36 DIN 5482 | 42 | 42 | — | 60 | 55 | — | 7 | 20.5 | 40000608 |
| RE 110-210 | T-TR | A40x36 DIN 5482 | 42 | 42 | 51 | 60 | 67.5 | 5 | 12 | 20.5 | 40000617 |
| RE 240 | T-TR | A58x53 DIN 5482 | 60 | 60 | 72 | 94 | 85 | 16 | 23 | 25 | 40000642 |
| RE 310-510-610 | N-P-T-TL | A58x53 DIN 5482 | 60 | 60 | 72 | 94 | 85 | 16 | 23 | 25 | 40000642 |
| RE 810 | N-P-T | A70x64 DIN 5482 | 72 | 72 | — | 95 | 90 | — | 10 | 29 | 40001836 |
| RE 1020-1520-2000 | T-H | A80x74 DIN 5482 | 85 | 85 | — | 108 | 90.5 | — | 10.5 | 30.5 | 40001847 |
| RE 2520-3000 | H | A100x94 DIN 5482 | 105 | 105 | — | 136 | 110 | — | 12 | 33 | 40001850 |
| RE 3510-4800 | H | N120x3x9H DIN 5480 | 124 | 130 | — | 175 | 150 | — | 28 | 29 | 02631054 |
| RE 6000 | H | N120x3x9H DIN 5480 | 120 | 120 | — | 160 | 124.5 | — | 10.5 | 31 | 02631082 |
| RE 6000 | H6 | N150x5x9H DIN 5480 | 151 | 151 | — | 220 | 150 | — | 11 | 33 | 02631092 |
| RE 8000 | H | N150x5x9H DIN 5480 | 151 | 151 | — | 220 | 150 | — | 11 | 33 | 02631092 |
| GB 12010-16000 | H | N170x5x9H DIN 5480 | 170 | 175 | — | 235 | 163 | — | 14 | 42 | 02631026 |
| GB 21000 | H | N220x5x9H DIN 5480 | 220 | 230 | — | 295 | 205 | — | 16 | 51.5 | 02631027 |

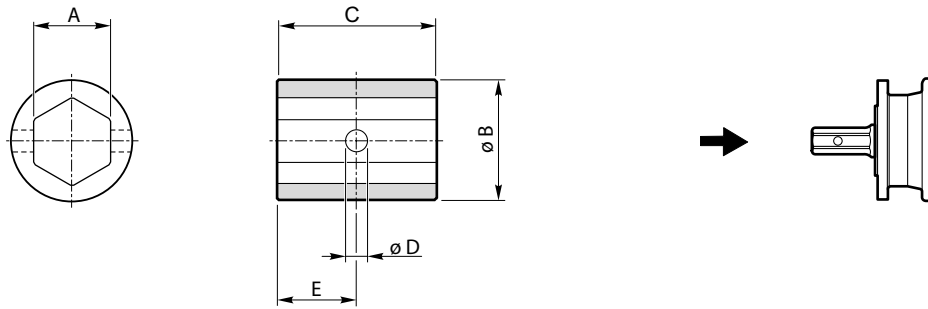
On demand for different size

EP



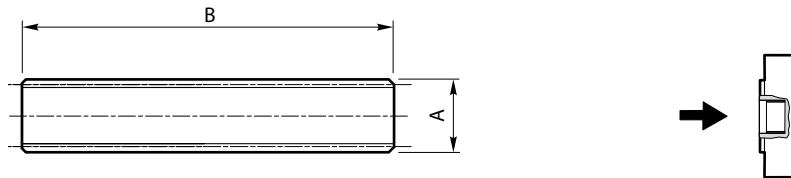
| | VERSION | ø A | ø B | ø C | D | E | F | CODE |
|-------------------|---------|-----|-----|-----|------|------|-----|----------|
| RE 110-210 | N-P | 35 | 42 | 50 | 9.5 | 4.5 | — | 40000609 |
| RE 110-210 | T-TR | 35 | 52 | 50 | 14 | — | 6.8 | 40000614 |
| RE 240 | T-TR | 50 | 60 | 70 | 13 | 5.5 | — | 40000613 |
| RE 310-510 | N-P | 50 | 60 | 70 | 13 | 5.5 | — | 40000613 |
| RE 310-510-610 | T-TL | 50 | 72 | — | 18 | — | 9 | 40000616 |
| RE 810 | N-P-T | 62 | 72 | 80 | 18 | 9.25 | — | 40001832 |
| RE 1020-1520-2000 | T-H | 70 | 85 | 98 | 19.5 | 8.5 | — | 40001840 |
| RE 2520-3000 | H | 85 | 105 | 114 | 20 | 10 | — | 40001849 |
| RE 3510-4800 | H | 90 | 130 | — | 26 | — | 14 | 02551072 |
| RE 6000 | H | 100 | 120 | 135 | 21 | 9.5 | — | 02551060 |
| RE 6000 | H6 | 125 | 151 | 170 | 25 | 9 | — | 02551077 |
| RE 8000 | H | 125 | 151 | 170 | 25 | 9 | — | 02551077 |
| GB 12010-16000 | H | 150 | 175 | 198 | 31 | 13.5 | — | 02551044 |
| GB 21000 | H | 200 | 230 | 260 | 43.5 | 19 | — | 02551046 |

On demand for different size

ES


| | VERSION | A | øB | C | øD | E | CODE |
|-------------------|---------|----|-----|-----|----|----|----------|
| RE 110-210 | NE | 50 | 80 | 108 | 18 | 54 | 40001831 |
| RE 240 | TE | 50 | 80 | 108 | 18 | 54 | 40001831 |
| RE 310-510-610 | NE | 50 | 80 | 108 | 18 | 54 | 40001831 |
| RE 310-510-610 | TE-TLE | 70 | 100 | 115 | — | — | 40001813 |
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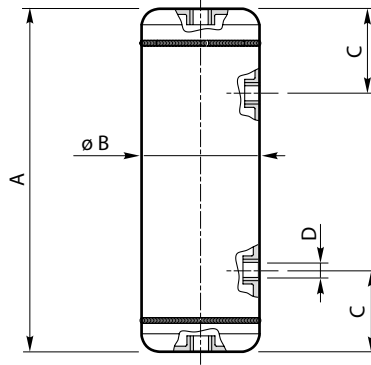
On demand for different size

BF


| | VERSION | A | B | CODE | Tmax [Nm] |
|-------------------|---------|--------------------|-----|----------|-----------|
| RE 110-210 | FS | B40x36 DIN 5482 | 250 | 40100901 | 2240 |
| RE 240 | FS | B45x41 DIN 5482 | 250 | 02631093 | 3255 |
| RE 310-510-610 | FS - NF | A58x53 DIN 5482 | 250 | 40100904 | 7055 |
| RE 810 | FS - NF | A70x64 DIN 548 | 250 | 40001855 | 12600 |
| RE 1020-1520-2000 | FS | A80xx74 DIN 5482 | 250 | 40001856 | 19250 |
| RE 2520-3000 | FS | A100x94 DIN 5482 | 250 | 02631012 | 39450 |
| RE 3510-4800 | FS | W120x3x8f DIN 5480 | 250 | 02631086 | 97500 |
| RE 6000-8000 | FS | W140x5x8f DIN 5480 | 250 | 02631134 | 146000 |

On demand for different size

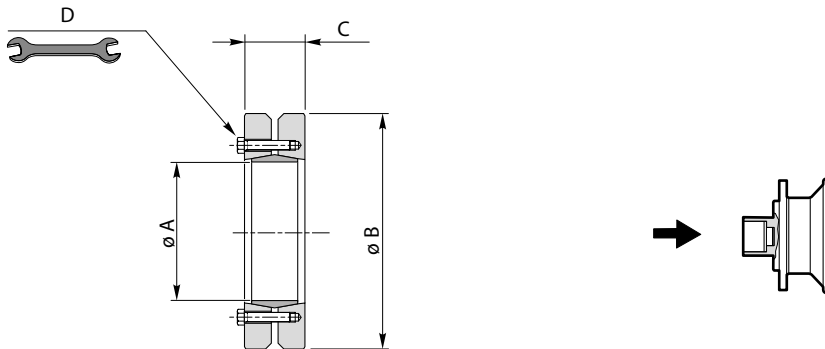
VE



| A | ø B | C | D | Capacity [Liters] | CODE |
|-----|-----|----|--------------|-------------------|----------|
| 230 | 80 | 55 | 1/4" GAS (4) | 1.0 | 40000712 |
| 330 | 130 | 85 | 1/4" GAS (4) | 3.8 | 40000711 |
| 330 | 160 | 85 | 1/4" GAS (4) | 5.5 | 40000710 |
| 510 | 150 | 85 | 1/4" GAS (4) | 7.7 | 40000704 |
| 690 | 150 | 85 | 1/4" GAS (4) | 10.7 | 40000706 |

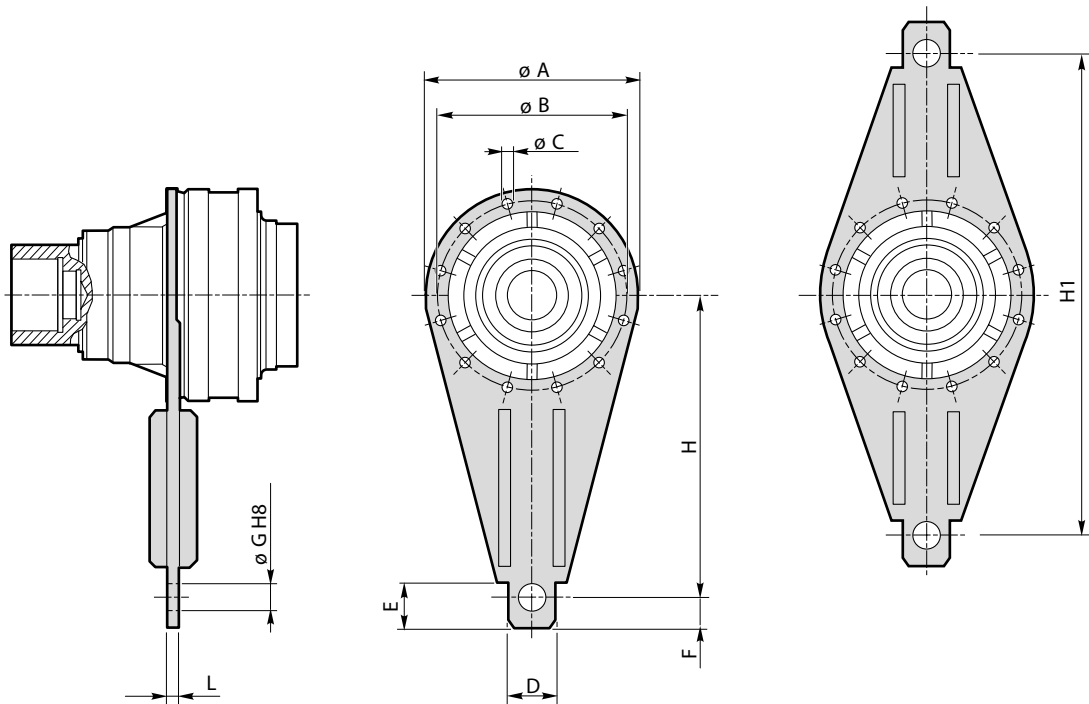
On demand for different size

GA



| | VERSION | ø A | ø B | C | D | [Nm] | T max [Nm] |
|--------------------|---------|-----|-----|-----|---------------|------|------------|
| RE 110-210 | NQ | 62 | 110 | 29 | M6-10.9 (10) | 12 | 3000 |
| RE 240-310-510-610 | NQ-TQ | 100 | 170 | 43 | M8-10.9 (12) | 30 | 9300 |
| RE 810 | TQ | 125 | 215 | 53 | M10-10.9 (12) | 59 | 15800 |
| RE 1020-1520-2000 | HQ-TQ | 165 | 290 | 68 | M16-10.9 (8) | 250 | 43600 |
| RE 2520-3000 | HQ | 175 | 300 | 88 | M16-10.9 (10) | 250 | 59400 |
| RE 3510-4800 | HQ | 185 | 330 | 85 | M16-10.9 (10) | 250 | 73100 |
| RE 4800 | HQ1 | 200 | 350 | 85 | M16-10.9 (12) | 250 | 94800 |
| RE 6000-8000 | HQ | 195 | 350 | 112 | M16-10.9 (15) | 250 | 123000 |
| RE 6000-8000 | HQ1 | 240 | 405 | 108 | M20-10.9 (12) | 490 | 168000 |
| GB 12010-16000 | HQ | 240 | 405 | 144 | M20-10.9 (15) | 490 | 236000 |
| GB 12010-16000 | HQ1 | 260 | 430 | 160 | M20-10.9 (18) | 490 | 325000 |
| GB 21000-26000 | HQ | 280 | 460 | 172 | M20-10.9 (20) | 490 | 407000 |
| GB 31000-40000 | HQ | 360 | 590 | 204 | M24-10.9 (20) | 840 | 753000 |
| GB 45000 | HQ | 380 | 645 | 164 | M24-10.9 (20) | 840 | 739000 |
| GB 53000-61000 | HQ | 390 | 660 | 212 | M24-10.9 (24) | 840 | 986000 |
| GB 85000 | HQ | 460 | 770 | 252 | M27-10.9 (28) | 1250 | 1870000 |

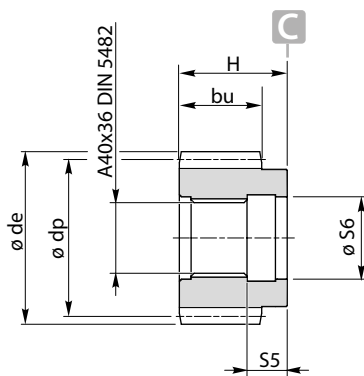
On demand for different size

BR


| | VERSION | Ø A | Ø B | Ø C | D | E | F | Ø G | H | H1 | L |
|----------------------|---------|------|------|---------|-----|-----|-----|-----|------|------|----|
| RE 110-210 | N | 185 | 165 | 11 (8) | 60 | 50 | 35 | 25 | 300 | 450 | 15 |
| RE 110-210 | T-TR | 219 | 194 | 11 (10) | 70 | 50 | 35 | 35 | 300 | 450 | 15 |
| RE 240 | TR | 219 | 194 | 11 (10) | 70 | 50 | 35 | 35 | 300 | 450 | 15 |
| RE 240 | T | 219 | 195 | 13 (10) | 60 | 50 | 35 | 30 | 350 | 500 | 15 |
| RE 310-510-610 | N-NU* | 222 | 195 | 13 (10) | 70 | 60 | 40 | 35 | 350 | 500 | 15 |
| RE 810 | T | 280 | 250 | 15(12) | 75 | 65 | 45 | 40 | 400 | 600 | 16 |
| RE 1020 | T | 325 | 295 | 17 (10) | 80 | 75 | 50 | 45 | 500 | 800 | 17 |
| RE 1520-2000 | T | 325 | 295 | 17 (10) | 80 | 75 | 50 | 45 | 500 | 800 | 17 |
| RE 1520-2000 | H | 350 | 314 | 17(16) | 80 | 75 | 50 | 45 | 500 | 800 | 17 |
| RE 2520-3000 | H | 409 | 370 | 17(21) | 95 | 125 | 60 | 50 | 700 | 1000 | 18 |
| RE 3510-4800 | H | 452 | 424 | 17 (24) | 100 | 130 | 65 | 50 | 800 | 1100 | 20 |
| RE 6000-8000 | H | 490 | 445 | 19 (36) | 110 | 140 | 70 | 55 | 900 | 1200 | 20 |
| GB 12010-16000 | H | 610 | 560 | 25 (36) | 120 | 120 | 80 | 60 | 1100 | 1400 | 22 |
| GB 21000-26000 | H | 710 | 660 | 28 (36) | 130 | 145 | 90 | 65 | 1300 | 1600 | 35 |
| GB 31000 | H | 870 | 810 | 32 (36) | 140 | 160 | 100 | 70 | 1500 | 2000 | 40 |
| GB 40000-45000 | H | 870 | 810 | 32 (36) | 140 | 160 | 100 | 70 | 1500 | 2000 | 40 |
| GB 53000-61000-85000 | H | 1090 | 1020 | 39 (36) | 160 | 170 | 110 | 75 | 1500 | 2000 | 80 |
| GB 110000-130000 | H | 1540 | 1450 | 44 (40) | 200 | 180 | 120 | 100 | 1800 | 2500 | 50 |

* NU Torque arm code 02531016
On demand for different size

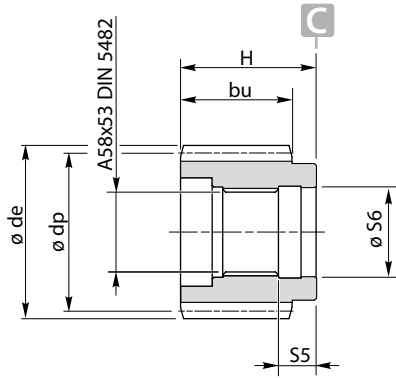
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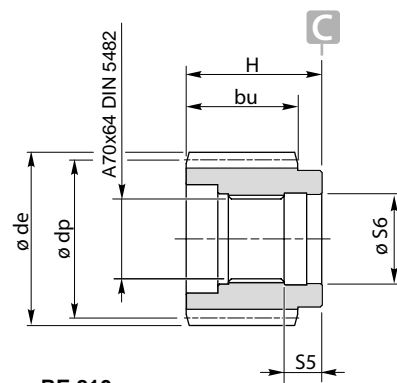
| M | z | x | $\varnothing de$ | $\varnothing dp$ | bu | H | S5 | $\varnothing S6$ | Code |
|-----|----|-----|------------------|------------------|----|------|------|---------------------|----------|
| 4 | 20 | 0 | 88 | 80 | 42 | 55 | 20.5 | $\varnothing 42 H7$ | 40100882 |
| 4 | 24 | 0 | 104 | 96 | 45 | 57 | 20.5 | $\varnothing 42 H7$ | 40100889 |
| 4.5 | 14 | 0.5 | 76.5 | 63 | 55 | 55 | 20.5 | $\varnothing 42 H7$ | 40100835 |
| 4.5 | 16 | 0 | 81 | 72 | 70 | 80 | 20.5 | $\varnothing 42 H7$ | 40100802 |
| 4.5 | 16 | 0 | 81 | 72 | 45 | 55 | 20.5 | $\varnothing 42 H7$ | 40100926 |
| 4.5 | 16 | 0 | 81 | 72 | 45 | 75 | 20.5 | $\varnothing 42 H7$ | 40100943 |
| 5 | 14 | 0 | 80 | 70 | 60 | 60 | 20.5 | $\varnothing 42 H7$ | 40100810 |
| 5 | 14 | 0 | 80 | 70 | 70 | 80 | 20.5 | $\varnothing 42 H7$ | 40100812 |
| 5 | 14 | 0.5 | 85 | 70 | 65 | 65 | 20.5 | $\varnothing 42 H7$ | 40100811 |
| 5 | 14 | 0.5 | 85 | 70 | 60 | 90 | 20.5 | $\varnothing 42 H7$ | 40100885 |
| 5 | 14 | 0.5 | 85 | 70 | 55 | 78 | 20.5 | $\varnothing 42 H7$ | 40100888 |
| 5 | 14 | 0.5 | 84.5 | 70 | 47 | 55 | 20.5 | $\varnothing 42 H7$ | 02571014 |
| 5 | 16 | 0 | 90 | 80 | 70 | 80 | 20.5 | $\varnothing 42 H7$ | 40100813 |
| 5 | 17 | 0 | 95 | 85 | 70 | 80 | 20.5 | $\varnothing 42 H7$ | 40100815 |
| 5 | 18 | 0 | 100 | 90 | 70 | 80 | 20.5 | $\varnothing 42 H7$ | 40100814 |
| 5 | 20 | 0 | 109.5 | 100 | 45 | 74 | 20.5 | $\varnothing 42 H7$ | 40100918 |
| 5 | 22 | 0 | 120 | 110 | 50 | 76 | 20.5 | $\varnothing 42 H7$ | 40100934 |
| 6 | 12 | 0.5 | 89 | 72 | 70 | 80 | 20.5 | $\varnothing 42 H7$ | 40100825 |
| 6 | 13 | 0 | 90 | 78 | 60 | 85 | 20.5 | $\varnothing 42 H7$ | 40100914 |
| 6 | 13 | 0 | 90 | 78 | 50 | 80 | 20.5 | $\varnothing 42 H7$ | 40100915 |
| 6 | 13 | 0.5 | 95 | 78 | 61 | 97 | 20.5 | $\varnothing 42 H7$ | 40100823 |
| 6 | 14 | 0 | 96 | 84 | 50 | 60 | 20.5 | $\varnothing 42 H7$ | 40100824 |
| 6 | 14 | 0 | 96 | 84 | 70 | 80 | 20.5 | $\varnothing 42 H7$ | 40100826 |
| 6 | 14 | 0 | 96 | 84 | 70 | 100 | 20.5 | $\varnothing 42 H7$ | 40100827 |
| 6 | 15 | 0 | 102 | 90 | 60 | 82.5 | 20.5 | $\varnothing 42 H7$ | 40100935 |
| 6 | 15 | 0.5 | 108 | 90 | 40 | 73 | 20.5 | $\varnothing 42 H7$ | 40100819 |
| 6 | 17 | 0 | 114 | 102 | 80 | 110 | 20.5 | $\varnothing 42 H7$ | 40100913 |
| 6 | 18 | 0 | 120 | 108 | 70 | 80 | 20.5 | $\varnothing 42 H7$ | 40100830 |
| 6 | 20 | 0 | 132 | 120 | 60 | 85 | 20.5 | $\varnothing 42 H7$ | 40100894 |
| 8 | 12 | 0.5 | 118 | 96 | 60 | 65 | 20.5 | $\varnothing 42 H7$ | 40100841 |
| 8 | 14 | 0.5 | 136 | 112 | 80 | 110 | 20.5 | $\varnothing 42 H7$ | 40100912 |
| 8 | 15 | 0 | 136 | 120 | 70 | 80 | 20.5 | $\varnothing 42 H7$ | 40100846 |

On demand for different size

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RE 240 / RE 310 / RE 510 / RE 610



RE 810

**RE 240
RE 310
RE 510
RE 610**

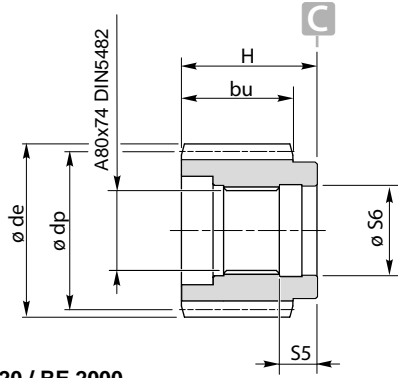
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| 5 | 21 | 0 | 115 | 105 | 60 | 76 | 25 | ø 60 H7 | 40100883 |
| 5 | 22 | 0 | 120 | 110 | 50 | 76 | 25 | ø 60 H7 | 02571051 |
| 6 | 14 | 0.5 | 101.5 | 90 | 65 | 78 | 25 | ø 60 H7 | 40100923 |
| 6 | 16 | 0 | 108 | 96 | 70 | 80 | 25 | ø 60 H7 | 40100867 |
| 6 | 18 | 0 | 120 | 108 | 70 | 80 | 25 | ø 60 H7 | 40100831 |
| 6 | 20 | 0 | 132 | 120 | 75 | 80 | 25 | ø 60 H7 | 40100873 |
| 6 | 24 | 0 | 156 | 144 | 68 | 77.5 | 25 | ø 60 H7 | 40100808 |
| 7 | 14 | 0 | 112 | 98 | 78.5 | 78.5 | 25 | ø 60 H7 | 40100874 |
| 8 | 12 | 0.5 | 120 | 96 | 80 | 100 | 25 | ø 60 H7 | 40100818 |
| 8 | 13 | 0 | 120 | 104 | 68 | 78 | 25 | ø 60 H7 | 02571111 |
| 8 | 14 | 0 | 128 | 112 | 65 | 68 | 25 | ø 60 H7 | 40100844 |
| 8 | 14 | 0 | 128 | 112 | 75 | 85 | 25 | ø 60 H7 | 40100845 |
| 8 | 15 | 0 | 136 | 120 | 75 | 85 | 25 | ø 60 H7 | 40100848 |
| 8 | 16 | 0 | 144 | 128 | 75 | 85 | 25 | ø 60 H7 | 40100849 |
| 8 | 16 | 0.5 | 152 | 128 | 75 | 85 | 25 | ø 60 H7 | 40100893 |
| 8 | 17 | 0 | 149 | 136 | 78 | 110 | 25 | ø 60 H7 | 40100937 |
| 8 | 18 | 0 | 160 | 144 | 76 | 78 | 25 | ø 60 H7 | 40100850 |
| 8 | 18 | 0 | 160 | 144 | 96 | 98 | 25 | ø 60 H7 | 40100898 |
| 8 | 19 | 0 | 174 | 152 | 85 | 102 | 25 | ø 60 H7 | 02571055 |
| 10 | 11 | 0.5 | 136 | 110 | 80 | 96.5 | 25 | ø 60 H7 | 40100807 |
| 10 | 11 | 0.5 | 136 | 110 | 100 | 120.5 | 25 | ø 60 H7 | 40100938 |
| 10 | 12 | 0.5 | 149 | 120 | 80 | 96.5 | 25 | ø 60 H7 | 40100820 |
| 10 | 12 | 0.35 | 143 | 120 | 80 | 100 | 25 | ø 60 H7 | 40100838 |
| 10 | 13 | 0 | 150 | 130 | 80 | 80 | 25 | ø 60 H7 | 40100929 |
| 10 | 13 | 0 | 150 | 130 | 90 | 105 | 25 | ø 60 H7 | 40100942 |
| 10 | 14 | 0 | 160 | 140 | 80 | 80 | 25 | ø 60 H7 | 40100866 |
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RE 810

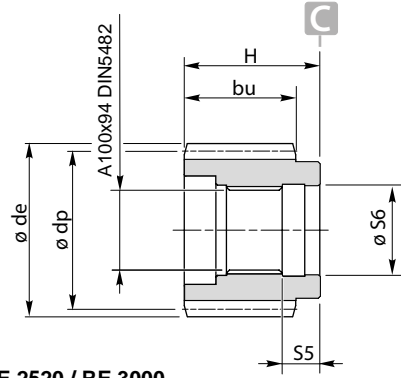
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| 8 | 15 | 0.3 | 140.8 | 120 | 67 | 96 | 29 | ø 72 H7 | 02571235 |
| 8 | 17 | 0 | 152 | 136 | 80 | 99 | 29 | ø 72 H7 | 02571121 |
| 8 | 20 | 0 | 176 | 160 | 115 | 124 | 29 | ø 72 H7 | 025710101 |
| 8 | 23 | 0.5 | 208 | 184 | 86 | 131 | 29 | ø 72 H7 | 40100853 |
| 10 | 11 | 0.5 | 136 | 110 | 80 | 90 | 29 | ø 72 H7 | 40100857 |
| 10 | 12 | 0.5 | 150 | 120 | 90 | 90 | 29 | ø 72 H7 | 02571110 |
| 10 | 13 | 0.5 | 160 | 130 | 90 | 90 | 29 | ø 72 H7 | 40100852 |
| 10 | 13 | 0.5 | 160 | 130 | 99 | 99 | 29 | ø 72 H7 | 02571000 |
| 10 | 14 | 0 | 160 | 140 | 99 | 99 | 29 | ø 72 H7 | 02571024 |
| 10 | 14 | 0.5 | 170 | 140 | 67 | 96 | 29 | ø 72 H7 | 02571236 |
| 10 | 15 | 0 | 170 | 150 | 98 | 112 | 29 | ø 72 H7 | 02571037 |
| 10 | 15 | 0.5 | 180 | 150 | 98 | 112 | 29 | ø 72 H7 | 02571183 |
| 10 | 17 | 0.48 | 198 | 170 | 80 | 90 | 29 | ø 72 H7 | 02571013 |
| 12 | 11 | 0.5 | 167 | 132 | 90 | 120 | 29 | ø 72 H7 | 40100821 |
| 12 | 13 | 0.5 | 192 | 156 | 118 | 126 | 29 | ø 72 H7 | 40100840 |
| 12 | 13 | 0.3 | 187 | 156 | 75 | 90 | 29 | ø 72 H7 | 02571019 |
| 12 | 14 | 0.5 | 199 | 168 | 90 | 100 | 29 | ø 72 H7 | 02571101 |
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On demand for different size

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RE 1020 / RE 1520 / RE 2000

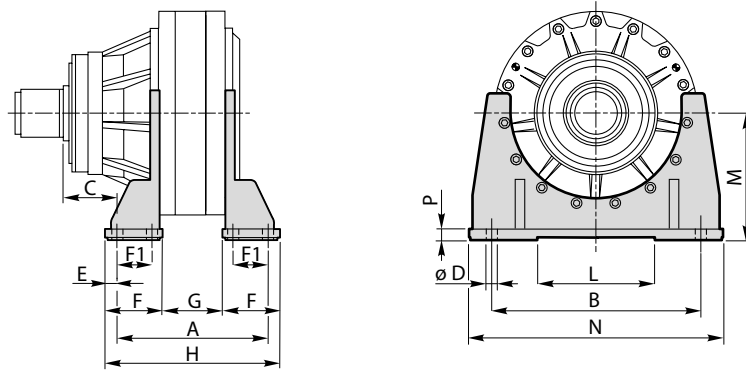


RE 2520 / RE 3000

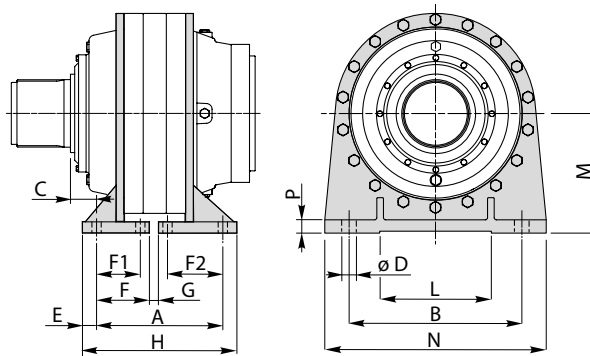
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|--|----|----|------|--------|------|------|------|------|---------|-----------|
| RE 1020 RE 1520 RE 2000 | 10 | 14 | 0.32 | 162.4 | 140 | 103 | 116 | 30.5 | ø 85 H7 | 02571001 |
| | 10 | 15 | 0 | 170 | 150 | 90 | 115 | 30.5 | ø 85 H7 | 40100940 |
| | 10 | 18 | 0 | 198 | 180 | 87 | 116 | 30.5 | ø 85 H7 | 40100822 |
| | 12 | 11 | 0.5 | 167 | 132 | 100 | 120 | 30.5 | ø 85 H7 | 02571136 |
| | 12 | 13 | 0.5 | 192 | 156 | 120 | 120 | 30.5 | ø 85 H7 | 02571173 |
| | 12 | 14 | 0.5 | 199 | 168 | 90.5 | 90.5 | 30.5 | ø 85 H7 | 40100856 |
| | 12 | 16 | 0 | 214 | 192 | 90 | 95 | 30.5 | ø 85 H7 | 40100850 |
| | 14 | 11 | 0.5 | 192.36 | 154 | 97 | 97 | 30.5 | ø 85 H7 | 025710113 |
| | 14 | 12 | 0.5 | 210 | 168 | 135 | 135 | 30.5 | ø 85 H7 | 02571182 |
| | 14 | 14 | 0.5 | 233.8 | 196 | 105 | 105 | 30.5 | ø 85 H7 | 02571103 |
| | 16 | 10 | 0.5 | 208 | 160 | 115 | 115 | 30.5 | ø 85 H7 | 025710126 |
| | 16 | 19 | 0 | 336 | 304 | 120 | 120 | 30.5 | ø 85 H7 | 02571006 |
| | 18 | 10 | 0.5 | 234 | 180 | 157 | 157 | 30.5 | ø 85 H7 | 02571152 |
| | 18 | 13 | 0.5 | 288 | 234 | 100 | 100 | 30.5 | ø 85 H7 | 02571208 |
| | 20 | 14 | 0.5 | 340 | 280 | 125 | 140 | 30.5 | ø 85 H7 | 025710102 |

| | M | z | x | ø de | ø dp | bu | H | S5 | ø S6 | Code |
|----------------------------|----|----|-----|-------|------|-----|-----|----|----------|----------|
| RE 2520 RE 3000 | 12 | 16 | 0.5 | 228.4 | 192 | 120 | 130 | 34 | ø 105 H7 | 02571044 |
| | 14 | 14 | 0 | 224 | 196 | 110 | 110 | 34 | ø 105 H7 | 02571030 |
| | 14 | 15 | 0.5 | 250.6 | 210 | 110 | 120 | 34 | ø 105 H7 | 02571221 |
| | 16 | 13 | 0.5 | 256 | 208 | 145 | 145 | 34 | ø 105 H7 | 02571201 |
| | 16 | 17 | 0.5 | 320 | 272 | 140 | 150 | 34 | ø 105 H7 | 02571159 |
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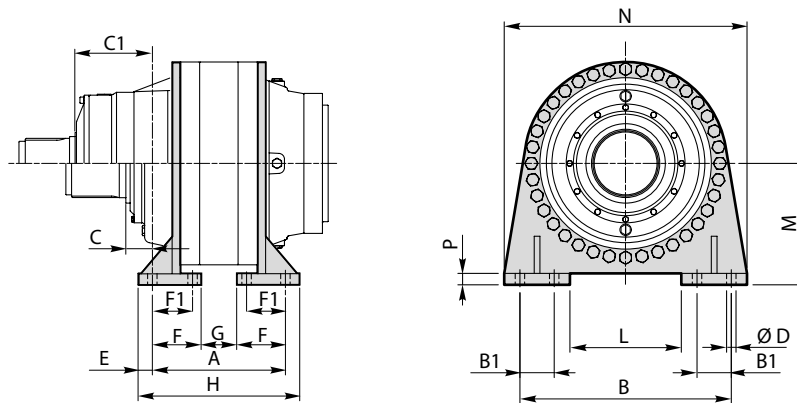
On demand for different size



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|---------------------|-----|-----|------|-------|------|-------|-------|---|-----|-----|-----|-----|------|----------|
| RE 1520-2000 | 310 | 356 | 80.5 | 25(8) | 29.5 | 150.5 | 120.5 | 9 | 369 | 220 | 230 | 420 | 40 | 99448300 |
| RE 2520-3000 | 334 | 457 | 78.5 | 33(8) | 36 | 163.5 | 135 | 7 | 405 | 350 | 280 | 550 | 32.5 | 99448400 |



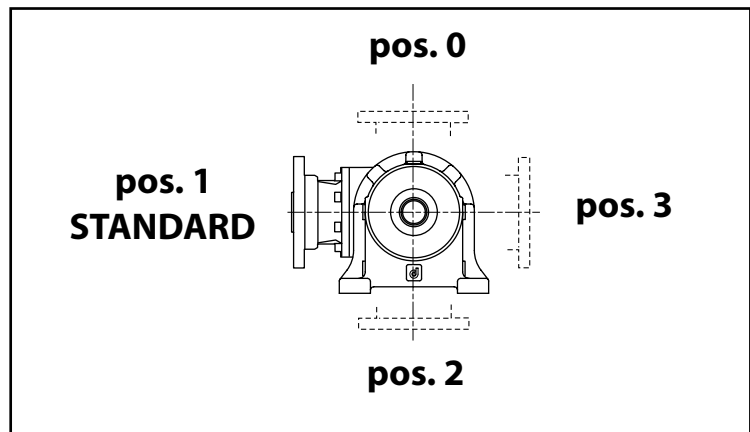
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| RE 3510-4800 | 300 | 390 | 50 | 33(8) | 35 | 116.5 | 92 | 154 | 5 | 370 | 235 | 270 | 500 | 29 | 99382000 |

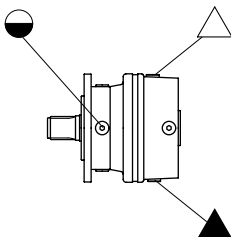
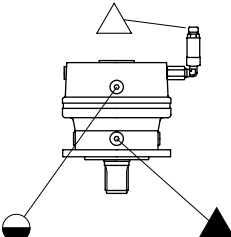
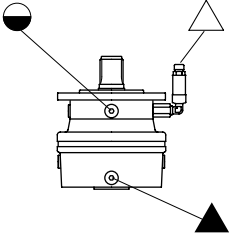
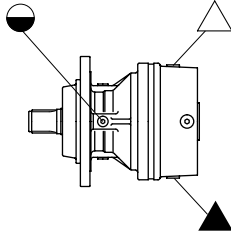
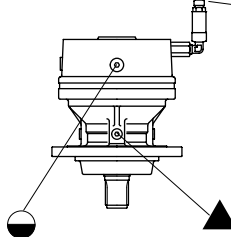
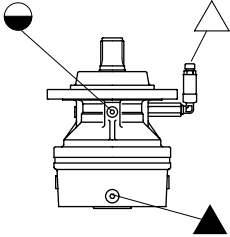
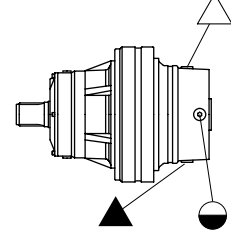
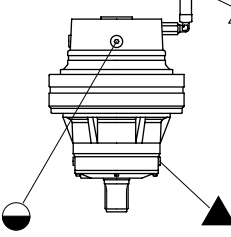
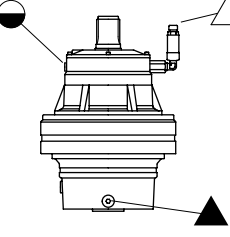
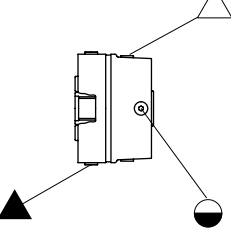
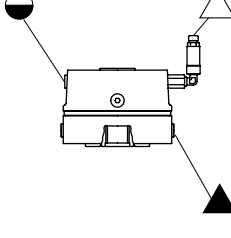
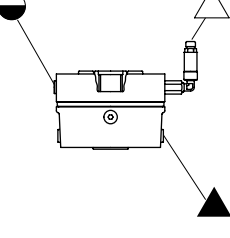
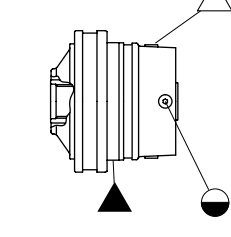
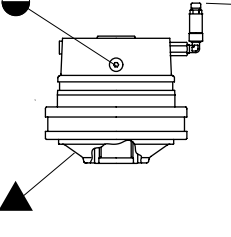
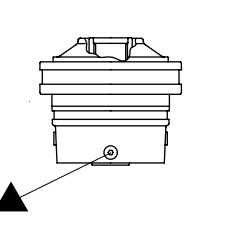


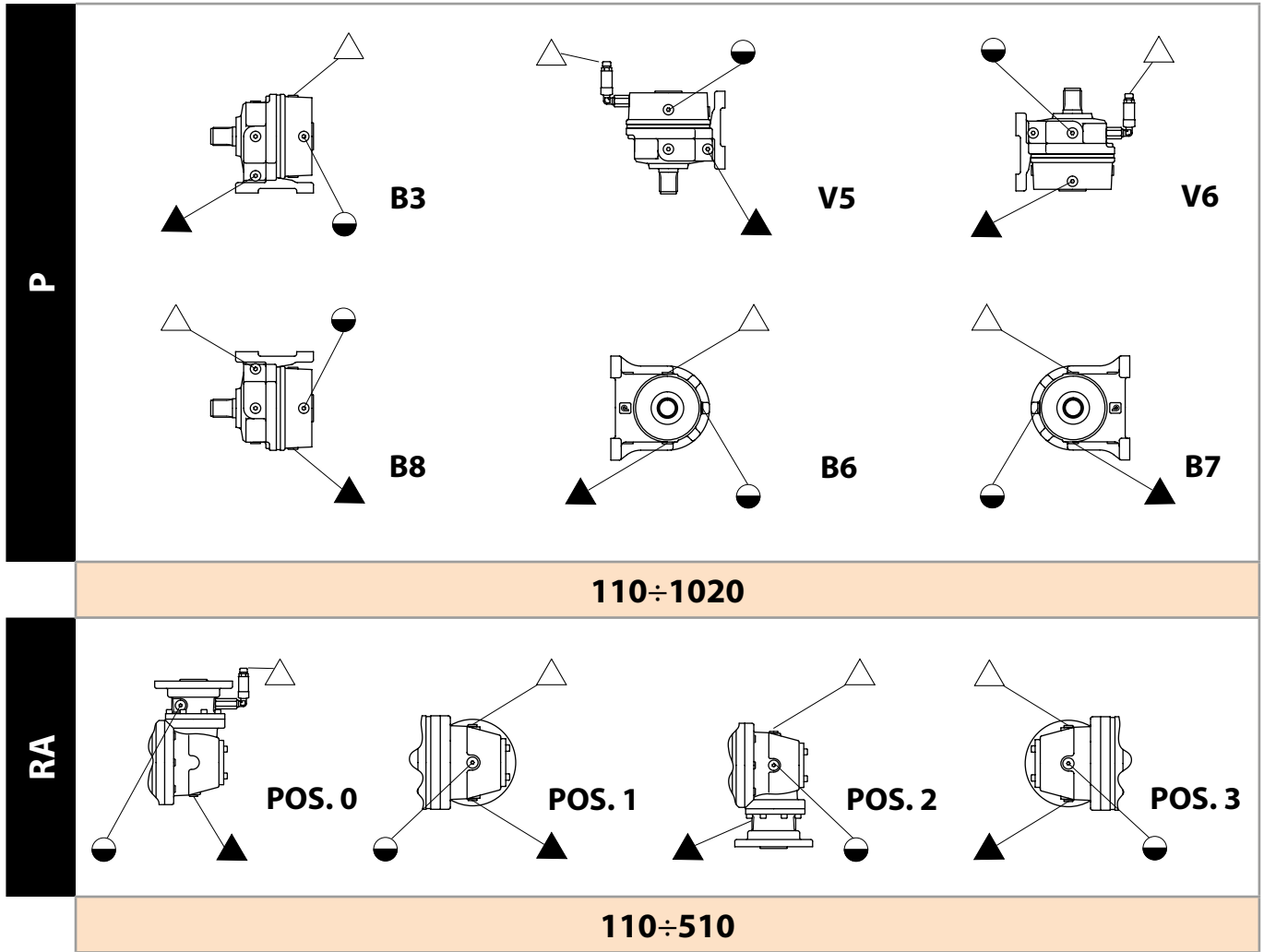
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| RE 6000 | 410 | 508 | - | - | 114.5 | 33(8) | 43.5 | 194 | 160 | 22 | 497 | 340 | 315 | 610 | 35 | 99452100 |
| RE 6000 H6 | 401.5 | 508 | | 14.5 | - | 33(8) | 43.5 | 194 | 160 | 13.5 | 488.5 | 340 | 315 | 610 | 35 | 99450600 |
| RE 8000 | 404.5 | 508 | -- | 14.5 | - | 33(8) | 43.5 | 194 | 160 | 16.5 | 491.5 | 340 | 315 | 610 | 35 | 99450600 |
| GB 12010-16000 | 416 | 630 | 100 | 52 | - | 32(12) | 40 | 185 | 145 | 46 | 496 | 340 | 360 | 720 | 38 | 99335300 |
| GB 21000 | 432 | 740 | 120 | 62 | - | 33(12) | 50 | 150 | 170 | 37 | 532 | 390 | 425 | 850 | 42 | 99451200 |
| GB 26000 | 452 | 740 | 120 | 62 | - | 33(12) | 50 | 150 | 170 | 57 | 552 | 390 | 425 | 850 | 42 | 99451300 |
| GB 31000 | 550 | 900 | 150 | 75 | - | 45(12) | 75 | 262.5 | 214.5 | 25 | 700 | 480 | 530 | 1020 | 50 | 99352800 |
| GB 40000-45000 | 590 | 900 | 150 | 75 | | 45(12) | 75 | 262.5 | 214.5 | 65 | 740 | 480 | 530 | 1020 | 50 | 99446400 |
| GB 53000-61000 | 645 | 1100 | 200 | 81 | — | 52(8) | 80 | 200 | — | 245 | 805 | 550 | 640 | 1250 | 60 | 99180000 |
| GB 85000 | 693 | 1100 | 200 | 81 | — | 52(8) | 80 | 200 | — | 293 | 853 | 550 | 640 | 1250 | 60 | 99180100 |
| GB110000-130000 150000 | 865 | 1520 | 380 | 68 | — | 60(8) | 72.5 | 245.5 | — | 354 | 1110 | 610 | 950 | 1750 | 80 | — |
| GB 205000-235000 | 1090 | 1770 | 380 | 176 | — | 85(8) | 99 | 326 | — | 438 | 1288 | 780 | 1050 | 2000 | 102 | — |

On demand for different size

| | | | |
|-----------|-----------|-----------|-----------|
| | | | |
| B3 | V5 | V6 | B8 |
| | | | |
| B6 | B7 | B5 | V1 |
| | | | |
| V3 | | | |



| | | | |
|--------------------|--|--|--|
| N |  <p>B5</p> |  <p>V1</p> |  <p>V3</p> |
| 110÷810 | | | |
| T-TL-TR |  <p>B5</p> |  <p>V1</p> |  <p>V3</p> |
| 110÷2000 | | | |
| H |  <p>B5</p> |  <p>V1</p> |  <p>V3</p> |
| 1520÷235000 | | | |
| F |  <p>B5</p> |  <p>V1</p> |  <p>V3</p> |
| 110÷240 | | | |
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| 310÷2000 | | | |




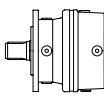
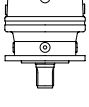
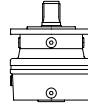
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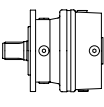
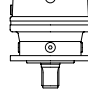
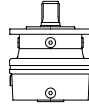


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|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | | | |
| RE 111 | 0.7 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.4 | 0.8 | 0.8 |
| RE 112 | 0.9 | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 | 0.5 | 1 | 1 |
| RE 113 | 1.1 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 0.7 | 1.4 | 1.4 |
| RE 114 | 1.3 | 2.6 | 2.6 | 1.3 | 1.3 | 1.3 | 0.8 | 1.6 | 1.6 |
| RE 211 | 0.8 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.5 | 1 | 1 |
| RE 212 | 1 | 2 | 2 | 1 | 1 | 1 | 0.6 | 1.2 | 1.2 |
| RE 213 | 1.2 | 2.4 | 2.4 | 1.2 | 1.2 | 1.2 | 0.7 | 1.4 | 1.4 |
| RE 214 | 1.4 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 0.9 | 1.8 | 1.8 |
| RE 241 | 0.8 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.5 | 1 | 1 |
| RE 242 | 1 | 2 | 2 | 1 | 1 | 1 | 0.6 | 1.2 | 1.2 |
| RE 243 | 1.2 | 2.4 | 2.4 | 1.2 | 1.2 | 1.2 | 0.7 | 1.4 | 1.4 |
| RE 244 | 1.4 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 0.9 | 1.8 | 1.8 |
| RE 311 | 1.4 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 1 | 2 | 2 |
| RE 312 | 1.6 | 3.2 | 3.2 | 1.6 | 1.6 | 1.6 | 1.2 | 2.4 | 2.4 |
| RE 313 | 1.7 | 3.4 | 3.4 | 1.7 | 1.7 | 1.7 | 1.3 | 2.6 | 2.6 |
| RE 314 | 1.8 | 3.6 | 3.6 | 1.8 | 1.8 | 1.8 | 1.4 | 2.8 | 2.8 |
| RE 511 | 1.5 | 3 | 3 | 1.5 | 1.5 | 1.5 | 1.1 | 2.2 | 2.2 |
| RE 512 | 1.7 | 3.4 | 3.4 | 1.7 | 1.7 | 1.7 | 1.3 | 2.6 | 2.6 |
| RE 513 | 1.8 | 3.6 | 3.6 | 1.8 | 1.8 | 1.8 | 1.5 | 3 | 3 |
| RE 514 | 1.9 | 3.8 | 3.8 | 1.9 | 1.9 | 1.9 | 1.6 | 3.2 | 3.2 |
| RE 611 | 1.6 | 3.2 | 3.2 | 1.6 | 1.6 | 1.6 | 1.2 | 2.4 | 2.4 |
| RE 612 | 1.8 | 3.6 | 3.6 | 1.8 | 1.8 | 1.8 | 1.4 | 2.8 | 2.8 |
| RE 613 | 1.9 | 3.8 | 3.8 | 1.9 | 1.9 | 1.9 | 1.6 | 3.2 | 3.2 |
| RE 614 | 20 | 40 | 40 | 20 | 20 | 20 | 1.7 | 3.4 | 3.4 |
| RE 811 | 1.8 | 3.6 | 3.6 | 1.8 | 1.8 | 1.8 | 1.5 | 3 | 3 |
| RE 812 | 2 | 4 | 4 | 2 | 2 | 2 | 1.7 | 3.4 | 3.4 |
| RE 813 | 2.2 | 4.4 | 4.4 | 2.2 | 2.2 | 2.2 | 1.9 | 3.8 | 3.8 |
| RE 814 | 2.3 | 4.6 | 4.6 | 2.3 | 2.3 | 2.3 | 2 | 4 | 4 |
| RE 1021 | 2.4 | 4.8 | 4.8 | 2.4 | 2.4 | 2.4 | 2.1 | 4.2 | 4.2 |
| RE 1022 | 2.6 | 5.2 | 5.2 | 2.6 | 2.6 | 2.6 | 2.3 | 4.6 | 4.6 |
| RE 1023 | 2.7 | 5.4 | 5.4 | 2.7 | 2.7 | 2.7 | 2.4 | 4.8 | 4.8 |
| RE 1024 | 2.9 | 5.8 | 5.8 | 2.9 | 2.9 | 2.9 | 2.6 | 5.2 | 5.2 |

| [Liters] | B5 | V1 | V3 |
|----------|-----|------|------|
| | | | |
| RE 1521 | 2.7 | 5.4 | 5.4 |
| RE 1522 | 3 | 6 | 6 |
| RE 1523 | 3.2 | 6.4 | 6.4 |
| RE 1524 | 3.4 | 6.8 | 6.8 |
| RE 2001 | 2.7 | 5.4 | 5.4 |
| RE 2002 | 3 | 6 | 6 |
| RE 2003 | 3.3 | 6.6 | 6.6 |
| RE 2004 | 3.4 | 6.8 | 6.8 |
| RE 2002L | 3 | 6 | 6 |
| RE 2003L | 3.1 | 6.2 | 6.2 |
| RE 2004L | 3.2 | 6.4 | 6.4 |
| RE 2521 | 3.9 | 7.7 | 7.7 |
| RE 2522 | 4.5 | 9 | 9 |
| RE 2523 | 4.7 | 9.4 | 9.4 |
| RE 2524 | 5 | 9.9 | 9.9 |
| RE 3001 | 3.8 | 7.6 | 7.6 |
| RE 3002 | 4.6 | 9.1 | 9.1 |
| RE 3003 | 4.8 | 9.5 | 9.5 |
| RE 3004 | 5 | 10 | 10 |
| RE 3511 | 4.9 | 9.8 | 9.8 |
| RE 3512 | 5.7 | 11.4 | 11.4 |
| RE 3513 | 6 | 12 | 12 |
| RE 3514 | 6.2 | 12.4 | 12.4 |
| RE 4801 | 4.7 | 9.4 | 9.4 |
| RE 4802 | 6.8 | 13.6 | 13.6 |
| RE 4803 | 7.2 | 14.4 | 14.4 |
| RE 4804 | 7.4 | 14.8 | 14.8 |
| RE 6001 | 7.5 | 15 | 15 |
| RE 6002 | 8.5 | 17 | 17 |
| RE 6003 | 9 | 18 | 18 |
| RE 6004 | 9.3 | 18.6 | 18.6 |
| RE 6002L | 8.5 | 17 | 17 |
| RE 6003L | 9 | 18 | 18 |

| [Liters] | B5 | V1 | V3 |
|-----------|------|------|------|
| | | | |
| RE 6004L | 9.2 | 18.4 | 18.4 |
| RE 8001 | 8.3 | 16.6 | 16.6 |
| RE 8002 | 10.2 | 20.4 | 20.4 |
| RE 8003 | 11 | 22 | 22 |
| RE 8004 | 11.5 | 23 | 23 |
| RE 8005 | 11.7 | 23.4 | 23.4 |
| RE 8002L | 10.2 | 20.4 | 20.4 |
| RE 8003L | 10.8 | 21.6 | 21.6 |
| RE 8004L | 11.4 | 22.8 | 22.8 |
| RE 8005L | 11.6 | 23.2 | 23.2 |
| GB 12011 | 13.5 | 27 | 27 |
| GB 12012 | 15.5 | 31 | 31 |
| GB 12013 | 16.5 | 33 | 33 |
| GB 12014 | 16.8 | 33.6 | 33.6 |
| GB 12015 | 17 | 34 | 34 |
| GB 12012L | 15.5 | 31 | 31 |
| GB 12013L | 16.3 | 32.6 | 32.6 |
| GB 12014L | 16.7 | 33.4 | 33.4 |
| GB 12015L | 17 | 34 | 34 |
| GB 16001 | 14.5 | 29 | 29 |
| GB 16002 | 18 | 36 | 36 |
| GB 16003 | 19.2 | 38.4 | 38.4 |
| GB 16004 | 19.6 | 39.2 | 39.2 |
| GB 16005 | 19.8 | 39.6 | 39.6 |
| GB 16002L | 17 | 34 | 34 |
| GB 16003L | 18 | 36 | 36 |
| GB 16004L | 18.5 | 37 | 37 |
| GB 16005L | 18.7 | 37.4 | 37.4 |
| GB 21001 | 20 | 40 | 40 |
| GB 21002 | 23.5 | 47 | 47 |
| GB 21003 | 24.5 | 49 | 49 |
| GB 21004 | 25 | 50 | 50 |
| GB 21005 | 25.5 | 51 | 51 |

| [Liters] | B5 | V1 | V3 |
|---|---|---|---|
|  |  |  |  |
| GB 26001 | 20 | 40 | 40 |
| GB 26002 | 25.5 | 51 | 51 |
| GB 26003 | 27.5 | 55 | 55 |
| GB 26004 | 28.5 | 57 | 57 |
| GB 26005 | 29 | 58 | 58 |
| GB 31001 | 38 | 76 | 76 |
| GB 31002 | 46.5 | 93 | 93 |
| GB 31003 | 48.5 | 97 | 97 |
| GB 31004 | 49.5 | 99 | 99 |
| GB 31005 | 50 | 100 | 100 |
| GB 40001 | 41 | 82 | 82 |
| GB 40002 | 49 | 98 | 98 |
| GB 40003 | 51 | 102 | 102 |
| GB 40004 | 52 | 104 | 104 |
| GB 40005 | 52 | 104 | 104 |
| GB 45001 | 41 | 82 | 82 |
| GB 45002 | 50 | 100 | 100 |
| GB 45003 | 53.5 | 107 | 107 |
| GB 45004 | 55 | 110 | 110 |
| GB 45005 | 55.5 | 111 | 111 |
| GB 53001 | 70 | 140 | 140 |
| GB 53002 | 80 | 160 | 160 |
| GB 53003 | 85 | 170 | 170 |
| GB 53004 | 86.5 | 173 | 173 |
| GB 53005 | 87 | 174 | 174 |
| GB 61001 | 70 | 140 | 140 |
| GB 61002 | 80 | 160 | 160 |
| GB 61003 | 85 | 170 | 170 |
| GB 61004 | 86.5 | 173 | 173 |
| GB 61005 | 87 | 174 | 174 |
| GB 85001 | 75 | 150 | 150 |
| GB 85002 | 87.5 | 175 | 175 |
| GB 85003 | 93 | 186 | 186 |

| [Liters] | B5 | V1 | V3 |
|---|---|--|---|
|  |  |  |  |
| GB 85004 | 95 | 190 | 190 |
| GB 85005 | 95.5 | 191 | 191 |
| GB 110001 | 145 | 290 | 290 |
| GB 110002 | 170 | 340 | 340 |
| GB 110003 | 180 | 360 | 360 |
| GB 110004 | 183 | 366 | 366 |
| GB 110005 | 185 | 370 | 370 |
| GB 130001 | 144 | 288 | 288 |
| GB 130002 | 172 | 344 | 344 |
| GB 130003 | 181 | 362 | 362 |
| GB 130004 | 185 | 370 | 370 |
| GB 130005 | 186 | 372 | 372 |
| GB 150001 | 143 | 286 | 286 |
| GB 150002 | 172 | 344 | 344 |
| GB 150003 | 185 | 370 | 370 |
| GB 150004 | 187 | 374 | 374 |
| GB 150005 | 188 | 376 | 376 |
| GB 205001 | 255 | 510 | 510 |
| GB 205002 | 300 | 600 | 600 |
| GB 205003 | 318 | 636 | 636 |
| GB 205004 | 326 | 652 | 652 |
| GB 205005 | 329 | 658 | 658 |
| GB 235001 | 255 | 510 | 510 |
| GB 235002 | 300 | 600 | 600 |
| GB 235003 | 335 | 670 | 670 |
| GB 235004 | 345 | 690 | 690 |
| GB 235005 | 247 | 494 | 494 |

[Liters]




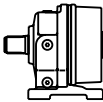
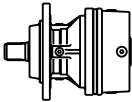
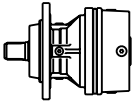
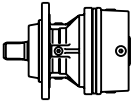
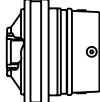
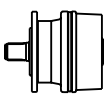
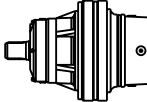
| | B3-1 | V5 | V6 | B6-1 | B7 | B8 | B5-1 | V1 | V3 |
|---------|------|-----|-----|------|-----|-----|------|-----|-----|
| | | | | | | | | | |
| RA 112 | 1.5 | 3 | 3 | 1.5 | 3 | 3 | 1.2 | 2.4 | 2.4 |
| RA 113 | 1.7 | 3.4 | 3.4 | 1.7 | 3.4 | 3.4 | 1.3 | 2.6 | 2.6 |
| RA 114 | 1.9 | 3.8 | 3.8 | 1.9 | 3.8 | 3.8 | 1.5 | 3 | 3 |
| RA 212 | 1.6 | 3.2 | 3.2 | 1.6 | 3.2 | 3.2 | 1.3 | 2.6 | 2.6 |
| RA 213 | 1.8 | 3.6 | 3.6 | 1.8 | 3.6 | 3.6 | 1.4 | 2.8 | 2.8 |
| RA 214 | 2 | 4 | 4 | 2 | 4 | 4 | 1.5 | 3 | 3 |
| RA 242 | 1.6 | 3.2 | 3.2 | 1.6 | 3.2 | 3.2 | 1.3 | 2.6 | 2.6 |
| RA 243 | 1.8 | 3.6 | 3.6 | 1.8 | 3.6 | 3.6 | 1.4 | 2.8 | 2.8 |
| RA 244 | 2 | 4 | 4 | 2 | 4 | 4 | 1.5 | 3 | 3 |
| RA 312 | 2.5 | 5 | 5 | 2.5 | 5 | 5 | 2.1 | 4.2 | 4.2 |
| RA 313 | 2.4 | 4.8 | 4.8 | 2.4 | 4.8 | 4.8 | 2 | 4 | 4 |
| RA 314 | 2.5 | 5 | 5 | 2.5 | 5 | 5 | 2.1 | 4.2 | 4.2 |
| RA 512 | 2.6 | 5.2 | 5.2 | 2.6 | 5.2 | 5.2 | 2.2 | 4.4 | 4.4 |
| RA 513 | 2.5 | 5 | 5 | 2.5 | 5 | 5 | 2.1 | 4.2 | 4.2 |
| RA 514 | 2.6 | 5.2 | 5.2 | 2.6 | 5.2 | 5.2 | 2.3 | 4.6 | 4.6 |
| RA 612 | 2.7 | 5.4 | 5.4 | 2.7 | 5.4 | 5.4 | 2.3 | 4.6 | 4.6 |
| RA 613 | 2.9 | 5.8 | 5.8 | 2.9 | 5.8 | 5.8 | 2.5 | 5 | 5 |
| RA 614 | 2.7 | 5.4 | 5.4 | 2.7 | 5.4 | 5.4 | 2.4 | 4.8 | 4.8 |
| RA 812 | 3.8 | 7.6 | 7.6 | 3.8 | 7.6 | 7.6 | 3.5 | 7 | 7 |
| RA 813 | 3.1 | 6.2 | 6.2 | 3.1 | 6.2 | 6.2 | 2.8 | 5.6 | 5.6 |
| RA 814 | 3 | 6 | 6 | 3 | 6 | 6 | 2.7 | 5.4 | 5.4 |
| RA 1022 | 4.4 | 8.8 | 8.8 | 4.4 | 8.8 | 8.8 | 4.1 | 8.2 | 8.2 |
| RA 1023 | 3.7 | 7.4 | 7.4 | 3.7 | 7.4 | 7.4 | 3.4 | 6.8 | 6.8 |
| RA 1024 | 3.5 | 7 | 7 | 3.5 | 7 | 7 | 3.2 | 6.4 | 6.4 |

| [Liters] | B5-1 | V1 | V3 |
|------------|------|------|------|
| | | | |
| RA 1522 | 5.7 | 11.4 | 11.4 |
| RA 1523 | 4.1 | 8.2 | 8.2 |
| RA 1524 | 4 | 8 | 8 |
| RA 2002 | 5.7 | 11.4 | 11.4 |
| RA 2003 | 4.1 | 8.2 | 8.2 |
| RA 2004 | 4.1 | 8.2 | 8.2 |
| RA 2003L | 4.1 | 8.2 | 8.2 |
| RA 2004L | 3.9 | 7.8 | 7.8 |
| RA 2522 | 10.7 | 21.4 | 21.4 |
| RA 2523 | 11 | 22 | 22 |
| RA 2524 | 10.5 | 21 | 21 |
| RA 3002 | 10.6 | 21.2 | 21.2 |
| RA 3003 | 11.1 | 22.2 | 22.2 |
| RA 3004 | 10.6 | 21.2 | 21.2 |
| RA 3512 | 14.9 | 29.8 | 29.8 |
| RA 3513 | 7.7 | 15.4 | 15.4 |
| RA 3514 | 7.1 | 14.2 | 14.2 |
| RA 4802 | 14.7 | 29.4 | 29.4 |
| RA 4803 | 9.8 | 19.6 | 19.6 |
| RA 4804 | 8.3 | 16.6 | 16.6 |
| RA 6002 | 17.5 | 35 | 35 |
| RA 6003 | 11.5 | 23 | 23 |
| RA 6004 | 10.1 | 20.2 | 20.2 |
| RA 6003L | 11.5 | 23 | 23 |
| RA 6004L | 10.1 | 20.2 | 20.2 |
| RA 8002 | 18.3 | 36.6 | 36.6 |
| RA 8003 | 13.2 | 26.4 | 26.4 |
| RA 8004 | 13 | 26 | 26 |
| RA 8003L | 13.2 | 26.4 | 26.4 |
| RA 8004L | 12.8 | 25.6 | 25.6 |
| GBA 12013 | 18.5 | 37 | 37 |
| GBA 12014 | 18.5 | 37 | 37 |
| GBA 12015 | 17.9 | 35.8 | 35.8 |
| GBA 12013L | 18.5 | 37 | 37 |
| GBA 12014L | 18.3 | 36.6 | 36.6 |
| GBA 12015L | 18 | 36 | 36 |
| GBA 16003 | 28 | 56 | 56 |
| GBA 16004 | 22.2 | 44.4 | 44.4 |
| GBA 16005 | 20.7 | 41.4 | 41.4 |

| [Liters] | B5-1 | V1 | V3 |
|------------|------|------|------|
| | | | |
| GBA 16003L | 27 | 54 | 54 |
| GBA 16004L | 21 | 42 | 42 |
| GBA 16005L | 19.6 | 39.2 | 39.2 |
| GBA 21003 | 33.5 | 67 | 67 |
| GBA 21004 | 27.5 | 55 | 55 |
| GBA 21005 | 26.1 | 52.2 | 52.2 |
| GBA 26003 | 35.5 | 71 | 71 |
| GBA 26004 | 30.5 | 61 | 61 |
| GBA 26005 | 30.5 | 61 | 61 |
| GBA 31004 | 51.5 | 103 | 103 |
| GBA 31005 | 51.5 | 103 | 103 |
| GBA 40004 | 54 | 108 | 108 |
| GBA 40005 | 54 | 108 | 108 |
| GBA 45004 | 63.5 | 127 | 127 |
| GBA 45005 | 58.5 | 117 | 117 |
| GBA 53004 | 96.5 | 193 | 193 |
| GBA 53005 | 90 | 180 | 180 |
| GBA 61004 | 95 | 190 | 190 |
| GBA 61005 | 89.5 | 179 | 179 |
| GBA 61006 | 88 | 176 | 176 |
| GBA 85004 | 103 | 206 | 206 |
| GBA 85005 | 98 | 196 | 196 |
| GBA 85006 | 97 | 194 | 194 |
| GBA 110005 | 186 | 372 | 372 |
| GBA 110006 | 187 | 374 | 374 |
| GBA 130005 | 380 | 760 | 388 |
| GBA 130006 | 189 | 378 | 378 |


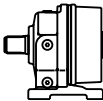
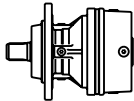
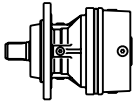
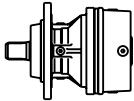
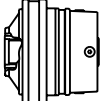
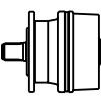
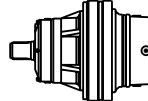
| CC | | |
|----------|-----|------------------|
| [Liters] | | |
| | | |
| CC30 | 1.6 | Complete filling |
| CC120 | 2.2 | |
| CC350 | 4 | |
| CC600 | 6 | |
| CC1000 | 16 | |

| | P | T | TL | TR | F | N | H |
|---------|------|------|----|------|------|------|---|
| | | | | | | | |
| RE 111 | 23 | 20 | — | 20 | 14 | 17 | — |
| RE 112 | 29.5 | 26.5 | — | 26.5 | 21 | 24 | — |
| RE 113 | 36.5 | 33.5 | — | 33.5 | 27.5 | 30.5 | — |
| RE 114 | 43 | 40 | — | 40 | 34 | 37 | — |
| RE 211 | 25 | 22 | — | 22 | 16 | 19 | — |
| RE 212 | 32 | 29 | — | 29 | 23 | 26 | — |
| RE 213 | 38 | 35 | — | 35 | 30 | 32 | — |
| RE 214 | 45 | 42 | — | 42 | 37 | 39 | — |
| RE 241 | 25 | 22 | — | 22 | 16 | — | — |
| RE 242 | 32 | 29 | — | 29 | 23 | — | — |
| RE 243 | 38 | 35 | — | 35 | 30 | — | — |
| RE 244 | 45 | 42 | — | 42 | 37 | — | — |
| RE 311 | 52 | 47 | 47 | — | 24 | 35 | — |
| RE 312 | 59 | 54 | 54 | — | 31 | 42 | — |
| RE 313 | 66 | 61 | 61 | — | 38 | 49 | — |
| RE 314 | 72 | 67 | 66 | — | 45 | 56 | — |
| RE 511 | 57 | 52 | 52 | — | 29 | 40 | — |
| RE 512 | 66 | 61 | 61 | — | 38 | 49 | — |
| RE 513 | 73 | 68 | 68 | — | 45 | 56 | — |
| RE 514 | 80 | 75 | 75 | — | 52 | 63 | — |
| RE 611 | 58 | 53 | 53 | — | 30 | 41 | — |
| RE 612 | 72 | 67 | 67 | — | 44 | 55 | — |
| RE 613 | 79 | 74 | 74 | — | 51 | 62 | — |
| RE 614 | 86 | 81 | 81 | — | 58 | 69 | — |
| RE 811 | 80 | 70 | — | — | — | 67 | — |
| RE 812 | 94 | 84 | — | — | — | 80 | — |
| RE 813 | 100 | 90 | — | — | — | 87 | — |
| RE 814 | 107 | 97 | — | — | — | 94 | — |
| RE 1021 | 100 | 90 | — | — | 60 | — | — |
| RE 1022 | 117 | 107 | — | — | 77 | — | — |

| | P | T | TL | TR | F | N | H |
|---|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |
| RE 1023 | 126 | 116 | — | — | 86 | — | — |
| RE 1024 | 133 | 123 | — | — | 93 | — | — |
| RE 1521 | — | 123 | — | — | 84 | — | 130 |
| RE 1522 | — | 141 | — | — | 102 | — | 148 |
| RE 1523 | — | 149 | — | — | 110 | — | 156 |
| RE 1524 | — | 156 | — | — | 117 | — | 163 |
| RE 2001 | — | 124 | — | — | 85 | — | 131 |
| RE 2002 | — | 142 | — | — | 104 | — | 150 |
| RE 2003 | — | 156 | — | — | 118 | — | 163 |
| RE 2004 | — | 163 | — | — | 125 | — | 170 |
| RE 2002L | — | 137 | — | — | 99 | — | 145 |
| RE 2003L | — | 149 | — | — | 111 | — | 156 |
| RE 2004L | — | 153 | — | — | 115 | — | 160 |
| RE 2521 | — | — | — | — | 151 | — | 185 |
| RE 2522 | — | — | — | — | 180 | — | 214 |
| RE 2523 | — | — | — | — | 194 | — | 228 |
| RE 2524 | — | — | — | — | 201 | — | 235 |
| RE 3001 | — | — | — | — | 152 | — | 186 |
| RE 3002 | — | — | — | — | 199 | — | 233 |
| RE 3003 | — | — | — | — | 207 | — | 241 |
| RE 3004 | — | — | — | — | 216 | — | 250 |
| RE 3511 | — | — | — | — | 225 | — | 239 |
| RE 3512 | — | — | — | — | 260 | — | 274 |
| RE 3513 | — | — | — | — | 278 | — | 292 |
| RE 3514 | — | — | — | — | 287 | — | 301 |
| RE 4801 | — | — | — | — | 226 | — | 240 |
| RE 4802 | — | — | — | — | 311 | — | 325 |
| RE 4803 | — | — | — | — | 330 | — | 344 |
| RE 4804 | — | — | — | — | 339 | — | 353 |

| | H | F |
|-----------|------|------|
| | | |
| RE 6002L | 365 | 340 |
| RE 6003L | 375 | 350 |
| RE 6004L | 382 | 357 |
| RE 6001 | 315 | 290 |
| RE 6002 | 370 | 345 |
| RE 6003 | 390 | 365 |
| RE 6004 | 395 | 370 |
| RE 8001 | 410 | 380 |
| RE 8002 | 500 | 470 |
| RE 8003 | 540 | 510 |
| RE 8004 | 555 | 525 |
| RE 8005 | 560 | 530 |
| RE 8002L | 485 | 455 |
| RE 8003L | 520 | 490 |
| RE 8004L | 530 | 500 |
| RE 8005L | 535 | 505 |
| GB 12011 | 650 | 615 |
| GB 12012 | 750 | 715 |
| GB 12013 | 785 | 750 |
| GB 12014 | 800 | 765 |
| GB 12015 | 810 | 775 |
| GB 12012L | 700 | 665 |
| GB 12013L | 745 | 710 |
| GB 12014L | 750 | 715 |
| GB 12015L | 757 | 722 |
| GB 16001 | 690 | 655 |
| GB 16002 | 860 | 825 |
| GB 16003 | 915 | 880 |
| GB 16004 | 935 | 900 |
| GB 16005 | 940 | 905 |
| GB 16002L | 860 | 825 |
| GB 16003L | 865 | 830 |
| GB 16004L | 885 | 850 |
| GB 16005L | 890 | 855 |
| GB 21001 | 930 | 880 |
| GB 21002 | 1115 | 1065 |
| GB 21003 | 1165 | 1115 |
| GB 21004 | 1190 | 1140 |
| GB 21005 | 1205 | 1155 |
| GB 26001 | 980 | 920 |
| GB 26002 | 1230 | 1170 |
| GB 26003 | 1330 | 1270 |
| GB 26004 | 1360 | 1300 |
| GB 26005 | 1380 | 1320 |
| GB 31001 | 1900 | 1750 |
| GB 31002 | 2280 | 2130 |
| GB 31003 | 2375 | 2225 |
| GB 31004 | 2410 | 2260 |
| GB 31005 | 2425 | 2275 |
| GB 40001 | 2030 | 1880 |

| | H | F |
|-----------|-------|-------|
| | | |
| GB 40002 | 2400 | 2250 |
| GB 40003 | 2500 | 2350 |
| GB 40004 | 2530 | 2380 |
| GB 40005 | 2540 | 2390 |
| GB 45001 | 2030 | 1880 |
| GB 45002 | 2435 | 2285 |
| GB 45003 | 2610 | 2460 |
| GB 45004 | 2665 | 2515 |
| GB 45005 | 2682 | 2532 |
| GB 53001 | 3550 | 3200 |
| GB 53002 | 4060 | 3710 |
| GB 53003 | 4250 | 3900 |
| GB 53004 | 4350 | 4000 |
| GB 53005 | 4370 | 4020 |
| GB 61001 | 3550 | 3200 |
| GB 61002 | 4060 | 3710 |
| GB 61003 | 4250 | 3900 |
| GB 61004 | 4350 | 4000 |
| GB 61005 | 4370 | 4020 |
| GB 85001 | 3850 | 3450 |
| GB 85002 | 4410 | 4010 |
| GB 85003 | 4650 | 4250 |
| GB 85004 | 4750 | 4350 |
| GB 85005 | 4785 | 4385 |
| GB 110001 | 7520 | 6620 |
| GB 110002 | 8780 | 7880 |
| GB 110003 | 9155 | 8255 |
| GB 110004 | 9250 | 8350 |
| GB 110005 | 9285 | 8385 |
| GB 130001 | 7535 | 6635 |
| GB 130002 | 8800 | 7900 |
| GB 130003 | 9210 | 8310 |
| GB 130004 | 9380 | 8480 |
| GB 130005 | 9430 | 8530 |
| GB 150001 | 7550 | 6650 |
| GB 150002 | 8795 | 7895 |
| GB 150003 | 9280 | 8380 |
| GB 150004 | 9460 | 8560 |
| GB 150005 | 9500 | 8600 |
| GB 205001 | 12240 | 11790 |
| GB 205002 | 14330 | 13880 |
| GB 205003 | 15040 | 14590 |
| GB 205004 | 15410 | 14960 |
| GB 205005 | 15500 | 15050 |
| GB 235001 | 12250 | 11800 |
| GB 235002 | 14580 | 14130 |
| GB 235003 | 15830 | 15380 |
| GB 235004 | 16200 | 15750 |
| GB 235005 | 16300 | 15850 |

| | P | T | TL | TR | F | N | H |
|---|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |
| RA 112 | 43 | 40 | — | 40 | 34 | 37 | — |
| RA 113 | 49.5 | 46.5 | — | 46.5 | 41 | 44 | — |
| RA 114 | 56.5 | 53.5 | — | 53.5 | 47.5 | 50.5 | — |
| RA 212 | 45 | 42 | — | 42 | 36 | 39 | — |
| RA 213 | 52 | 49 | — | 49 | 43 | 46 | — |
| RA 214 | 58 | 55 | — | 55 | 50 | 52 | — |
| RA 242 | 45 | — | — | 42 | — | — | — |
| RA 243 | 52 | — | — | 49 | — | — | — |
| RA 244 | 58 | — | — | 55 | — | — | — |
| RA 312 | 102 | 97 | 97 | — | 74 | 85 | — |
| RA 313 | | 74 | 74 | — | 51 | 62 | — |
| RA 314 | 86 | 81 | 81 | — | 58 | 69 | — |
| RA 512 | 107 | 102 | 102 | — | 79 | 90 | — |
| RA 513 | 86 | 81 | 81 | — | 58 | 69 | — |
| RA 514 | 93 | 88 | 88 | — | 65 | 76 | — |
| RA 612 | 108 | 103 | 103 | — | 80 | 91 | — |
| RA 613 | 122 | 117 | 117 | — | 94 | 105 | — |
| RA 614 | 99 | 94 | 94 | — | 71 | 82 | — |
| RA 812 | 170 | 160 | — | — | — | 157 | — |
| RA 813 | 144 | 134 | — | — | — | 130 | — |
| RA 814 | 120 | 110 | — | — | — | 107 | — |
| RA 1022 | 190 | 180 | — | — | 150 | — | — |
| RA 1023 | 167 | 157 | — | — | 127 | — | — |
| RA 1024 | 146 | 136 | — | — | 106 | — | — |
| RA 1522 | — | 258 | — | — | 219 | — | 265 |
| RA 1523 | — | 191 | — | — | 152 | — | 198 |
| RA 1524 | — | 169 | — | — | 130 | — | 176 |
| RA 2002 | — | 259 | — | — | 220 | — | 266 |
| RA 2003 | — | 192 | — | — | 154 | — | 200 |
| RA 2004 | — | 176 | — | — | 138 | — | 183 |
| RA 2003L | — | 187 | — | — | 149 | — | 195 |
| RA 2004L | — | 169 | — | — | 131 | — | 176 |
| RA 2522 | — | — | — | — | 286 | — | 320 |
| RA 2523 | — | — | — | — | 270 | — | 304 |
| RA 2524 | — | — | — | — | 214 | — | 248 |
| RA 3002 | — | — | — | — | 287 | — | 321 |
| RA 3003 | — | — | — | — | 289 | — | 323 |
| RA 3004 | — | — | — | — | 257 | — | 291 |
| RA 3512 | — | — | — | — | 575 | — | 589 |
| RA 3513 | — | — | — | — | 350 | — | 364 |
| RA 3514 | — | — | — | — | 398 | — | 412 |
| RA 4802 | — | — | — | — | 576 | — | 590 |
| RA 4803 | — | — | — | — | 446 | — | 460 |
| RA 4804 | — | — | — | — | 380 | — | 394 |

| | H | F |
|-------------------|------|------|
| | | |
| RA 6002 | 665 | 640 |
| RA 6003 | 505 | 480 |
| RA 6004 | 440 | 415 |
| RA 6003L | 500 | 475 |
| RA 6004L | 425 | 400 |
| RA 8002 | 760 | 730 |
| RA 8003 | 635 | 605 |
| RA 8004 | 630 | 600 |
| RA 8003L | 620 | 590 |
| RA 8004L | 610 | 580 |
| GBA 12013 | 885 | 850 |
| GBA 12014 | 875 | 840 |
| GBA 12015 | 850 | 815 |
| GBA 12013L | 835 | 800 |
| GBA 12014L | 835 | 800 |
| GBA 12015L | 800 | 765 |
| GBA 16003 | 1210 | 1175 |
| GBA 16004 | 1050 | 1015 |
| GBA 16005 | 985 | 950 |
| GBA 16003L | 1210 | 1175 |
| GBA 16004L | 1000 | 965 |
| GBA 16005L | 935 | 900 |
| GBA 21003 | 1465 | 1415 |
| GBA 21004 | 1300 | 1250 |
| GBA 21005 | 1240 | 1190 |
| GBA 26003 | 1580 | 1520 |
| GBA 26004 | 1465 | 1405 |
| GBA 26005 | 1450 | 1390 |
| GBA 31004 | 2510 | 2360 |
| GBA 31005 | 2500 | 2350 |
| GBA 40004 | 2635 | 2485 |
| GBA 40005 | 2620 | 2470 |
| GBA 45004 | 2960 | 2810 |
| GBA 45005 | 2800 | 2650 |
| GBA 53004 | 4600 | 4250 |
| GBA 53005 | 4485 | 4135 |
| GBA 61004 | 4600 | 4250 |
| GBA 61005 | 4485 | 4135 |
| GBA 61006 | 4420 | 4070 |
| GBA 85004 | 5000 | 4600 |
| GBA 85005 | 4885 | 4485 |
| GBA 85006 | 4875 | 4475 |
| GBA 110005 | 9385 | 8485 |
| GBA 110006 | 9375 | 8475 |
| GBA 130005 | 9730 | 8830 |
| GBA 130006 | 9365 | 8665 |

| CC | |
|---------------|-----|
| | |
| CC30 | 35 |
| CC120 | 50 |
| CC350 | 90 |
| CC600 | 135 |
| CC1000 | 350 |

