# 309L

# $M_2$ = 18500 Nm

| | i | $M_{n2}$ [Nm] | | | | | | $P_1$ | Pt | $n_1$ | $n_{1max}$ | $M_b$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | | | | | | |
| | 1: | 10 000 | 25 000 | 50 000 | 100 000 | 500 000 | 1 000 000 | [kW] | [kW] | [$min^{-1}$] | [$min^{-1}$] | [Nm] | |
| **L1** | 3.43 | 13 000 | 13 000 | 13 000 | 13 000 | 11 200 | 9 100 | 130 | 25 | 1 500 | 2 000 | 3 200 | 6L |
| | 4.09 | 22 500 | 20 600 | 19 000 | 16 800 | 10 400 | 8 400 | 130 | 25 | 1 500 | 2 000 | 3 200 | 6L |
| | 5.25 | 21 000 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 130 | 25 | 1 500 | 2 000 | 3 200 | 6L |
| | 6.23 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 130 | 25 | 1 500 | 2 000 | 3 200 | 6L |
| **L2** | 12.3 | 13 000 | 13 000 | 13 000 | 13 000 | 8 700 | 7 000 | 60 | 18 | 1 800 | 3 800 | 1 000 | 5K |
| | 14.7 | 17 200 | 16 700 | 16 700 | 13 800 | 8 500 | 6 900 | 60 | 18 | 1 800 | 3 800 | 1 000 | 5K |
| | 17.4 | 21 300 | 20 600 | 19 000 | 15 600 | 9 600 | 7 800 | 60 | 18 | 1 800 | 3 800 | 1 000 | 5K |
| | 21.8 | 18 000 | 17 500 | 17 500 | 15 200 | 9 400 | 7 600 | 60 | 18 | 1 800 | 3 800 | 1 000 | 5K |
| | 25.4 | 14 500 | 14 300 | 14 300 | 14 300 | 9 200 | 7 500 | 60 | 18 | 1 800 | 3 800 | 800 | 5G |
| | 28.0 | 21 000 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 60 | 18 | 1 800 | 3 800 | 800 | 5G |
| | 30.7 | 12 300 | 12 300 | 12 300 | 12 300 | 7 800 | 6 300 | 60 | 18 | 1 800 | 3 800 | 630 | 5E |
| | 32.6 | 18 300 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 60 | 18 | 1 800 | 3 800 | 630 | 5E |
| | 38.6 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 57 | 18 | 1 800 | 3 800 | 500 | 5C |
| | 46.7 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 49 | 18 | 1 800 | 3 800 | 400 | 5B |
| **L3** | 51.3 | 17 200 | 16 700 | 16 700 | 13 800 | 8 500 | 6 900 | 30 | 11 | 2 000 | 4 000 | 400 | 4K |
| | 60.5 | 21 300 | 20 600 | 19 000 | 15 500 | 9 500 | 7 700 | 30 | 11 | 2 000 | 4 000 | 400 | 4K |
| | 74.1 | 21 300 | 20 600 | 19 000 | 15 500 | 9 500 | 7 700 | 30 | 11 | 2 000 | 4 000 | 260 | 4F |
| | 80.6 | 21 000 | 18 100 | 16 200 | 16 000 | 10 000 | 8 200 | 30 | 11 | 2 000 | 4 000 | 260 | 4F |
| | 93.0 | 18 000 | 17 500 | 17 500 | 15 200 | 9 400 | 7 600 | 30 | 11 | 2 000 | 4 000 | 260 | 4F |
| | 100 | 21 300 | 20 600 | 18 000 | 14 600 | 9 000 | 7 300 | 30 | 11 | 2 000 | 4 000 | 260 | 4F |
| | 113 | 18 300 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 28 | 11 | 2 000 | 4 000 | 260 | 4F |
| | 126 | 18 000 | 17 500 | 17 500 | 15 200 | 9 400 | 7 600 | 24 | 11 | 2 000 | 4 000 | 260 | 4F |
| | 139 | 18 300 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 23 | 11 | 2 000 | 4 000 | 160 | 4D |
| | 162 | 21 000 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 23 | 11 | 2 000 | 4 000 | 160 | 4D |
| | 177 | 12 300 | 12 300 | 12 300 | 12 300 | 7 800 | 6 300 | 12.0 | 11 | 2 000 | 4 000 | 160 | 4D |
| | 202 | 21 000 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 15.0 | 11 | 2 000 | 4 000 | 100 | 4B |
| | 223 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 14.1 | 11 | 2 000 | 4 000 | 100 | 4B |
| | 239 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 13.3 | 11 | 2 000 | 4 000 | 100 | 4B |
| | 284 | 15 800 | 15 800 | 15 800 | 15 000 | 9 200 | 7 500 | 10.0 | 11 | 2 000 | 4 000 | 100 | 4B |
| | 336 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 10.0 | 11 | 2 000 | 4 000 | 100 | 4B |
| **L4** | 349 | 21 300 | 20 600 | 19 000 | 15 500 | 9 500 | 7 700 | 18.0 | 7.5 | 2 000 | 4 000 | 100 | 4B |
| | 411 | 13 000 | 13 000 | 13 000 | 11 500 | 7 100 | 5 800 | 9.4 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 465 | 21 000 | 18 100 | 16 200 | 16 000 | 10 000 | 8 200 | 14.3 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 513 | 13 000 | 13 000 | 13 000 | 11 500 | 7 100 | 5 800 | 7.5 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 579 | 21 300 | 20 600 | 18 000 | 14 600 | 9 000 | 7 300 | 10.9 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 654 | 18 300 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 9.5 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 722 | 21 300 | 20 600 | 18 000 | 14 600 | 9 000 | 7 300 | 8.7 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 801 | 18 300 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 8.0 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 906 | 18 000 | 17 500 | 17 500 | 15 200 | 9 400 | 7 600 | 7.1 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 999 | 18 300 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 6.6 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 1 149 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 5.6 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 1 274 | 12 300 | 12 300 | 12 300 | 12 300 | 7 800 | 6 300 | 3.6 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 1 380 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 4.8 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 1 605 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 4.1 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 1 723 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 3.9 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 2 041 | 15 800 | 15 800 | 15 800 | 15 000 | 9 200 | 7 500 | 3.0 | 7.5 | 2 000 | 4 000 | 50 | 4A |
| | 2 423 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 2.7 | 7.5 | 2 000 | 4 000 | 50 | 4A |

**$M_{2max} = 1.2 \cdot M_{n2}$** ($n_2 \cdot h = 10\,000$)

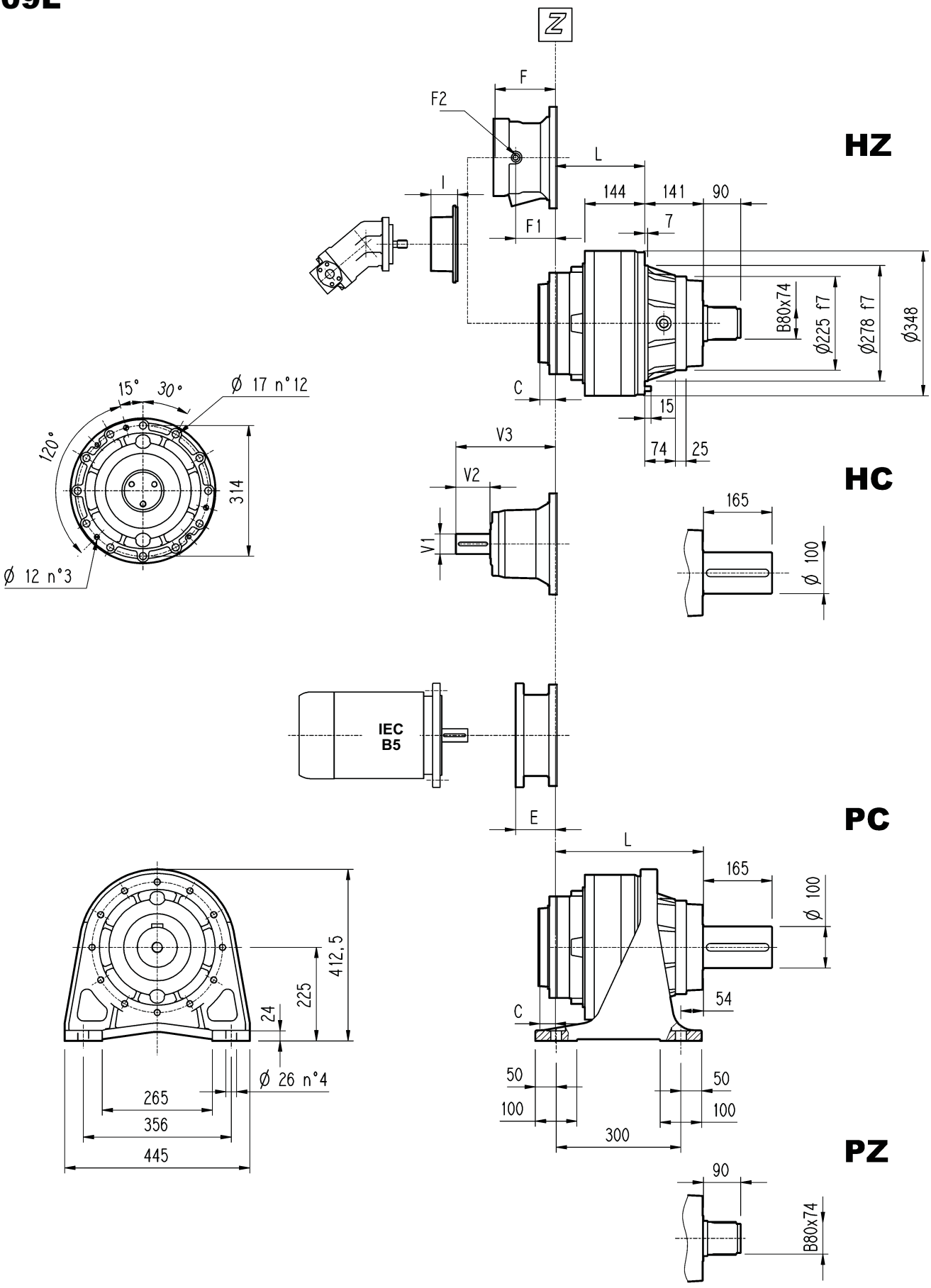
# $M_2$ = 18500 Nm

# 309R

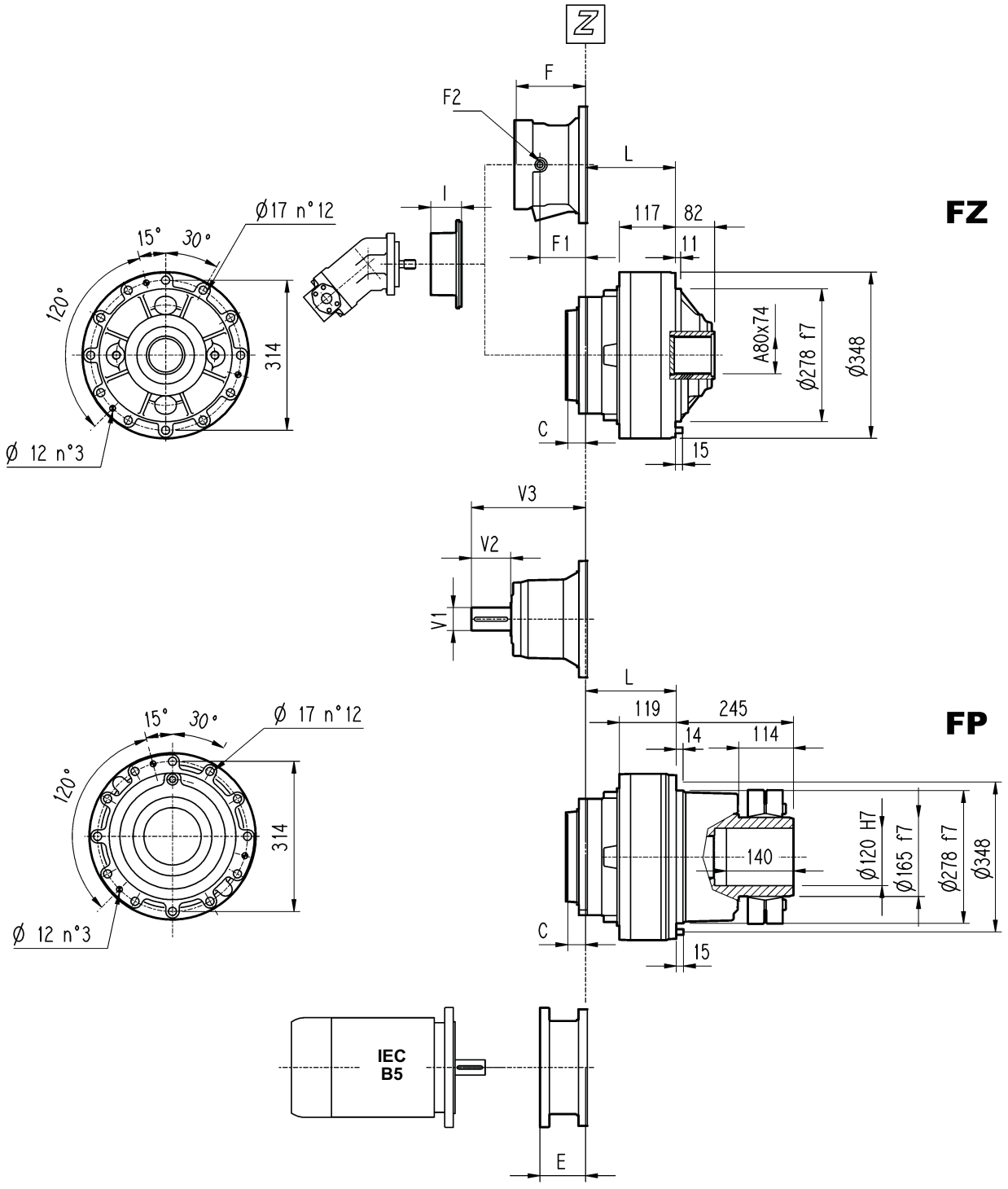
| | i | $M_{n2}$ [Nm] | | | | | | $P_1$ | Pt | $n_1$ | $n_{1max}$ | $M_b$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | | | | | | |
| | 1: | 10 000 | 25 000 | 50 000 | 100 000 | 500 000 | 1 000 000 | [kW] | [kW] | [$min^{-1}$] | [$min^{-1}$] | [Nm] | |
| R2 | 13.0 | 9 800 | 8 500 | 7 600 | 6 800 | 5 300 | 4 300 | 85 | 35 | 1 800 | 3 800 | 1 000 | 5K |
| | 15.5 | 11 400 | 9 800 | 8 800 | 7 900 | 5 900 | 4 800 | 85 | 35 | 1 800 | 3 800 | 1 000 | 5K |
| | 19.8 | 14 000 | 12 100 | 10 800 | 9 700 | 7 100 | 5 700 | 85 | 35 | 1 800 | 3 800 | 1 000 | 5K |
| | 23.5 | 16 200 | 14 000 | 12 500 | 11 200 | 8 000 | 6 500 | 85 | 35 | 1 800 | 3 800 | 800 | 5G |
| R3 | 31.6 | 12 800 | 11 000 | 9 100 | 7 400 | 4 550 | 3 700 | 35 | 20 | 2 000 | 4 000 | 440 | 4L |
| | 37.7 | 14 800 | 12 600 | 10 300 | 8 300 | 5 100 | 4 200 | 35 | 20 | 2 000 | 4 000 | 440 | 4L |
| | 44.6 | 17 100 | 14 100 | 11 500 | 9 400 | 5 800 | 4 700 | 35 | 20 | 2 000 | 4 000 | 400 | 4K |
| | 55.9 | 18 000 | 16 600 | 13 500 | 11 000 | 6 800 | 5 500 | 35 | 20 | 2 000 | 4 000 | 400 | 4K |
| | 65.0 | 14 500 | 14 300 | 14 300 | 12 200 | 7 500 | 6 100 | 35 | 20 | 2 000 | 4 000 | 260 | |
| | 71.8 | 21 000 | 18 100 | 16 100 | 13 100 | 8 100 | 6 500 | 35 | 20 | 2 000 | 4 000 | 330 | 4H |
| | 78.6 | 12 300 | 12 300 | 12 300 | 12 300 | 7 800 | 6 300 | 27 | 20 | 2 000 | 4 000 | 260 | 4F |
| | 83.4 | 18 300 | 18 100 | 16 200 | 14 500 | 9 000 | 7 300 | 35 | 20 | 2 000 | 4 000 | 260 | 4F |
| | 99.0 | 17 000 | 14 400 | 13 000 | 13 000 | 10 100 | 8 200 | 27 | 20 | 2 000 | 4 000 | 260 | 4F |
| | 120 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 23 | 20 | 2 000 | 4 000 | 160 | 4D |
| R4 | 152 | 21 300 | 20 600 | 18 000 | 14 600 | 9 000 | 7 300 | 15.0 | 14 | 2 000 | 4 000 | 160 | 4D |
| | 165 | 21 000 | 18 100 | 16 200 | 15 100 | 9 300 | 7 500 | 15.0 | 14 | 2 000 | 4 000 | 160 | 4D |
| | 191 | 18 000 | 17 500 | 17 500 | 15 200 | 9 400 | 7 600 | 15.0 | 14 | 2 000 | 4 000 | 160 | 4D |
| | 206 | 21 300 | 20 600 | 18 000 | 14 600 | 9 000 | 7 300 | 15.0 | 14 | 2 000 | 4 000 | 160 | 4D |
| | 232 | 18 300 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 15.0 | 14 | 2 000 | 4 000 | 100 | 4B |
| | 258 | 18 000 | 17 500 | 17 500 | 15 200 | 9 400 | 7 600 | 15.0 | 14 | 2 000 | 4 000 | 100 | 4B |
| | 284 | 18 300 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 15.0 | 14 | 2 000 | 4 000 | 100 | 4B |
| | 313 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 15.0 | 14 | 2 000 | 4 000 | 100 | 4B |
| | 331 | 21 000 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 15.0 | 14 | 2 000 | 4 000 | 100 | 4B |
| | 363 | 12 300 | 12 300 | 12 300 | 12 300 | 7 800 | 6 300 | 10.4 | 14 | 2 000 | 4 000 | 100 | 4B |
| | 413 | 21 000 | 18 100 | 16 200 | 16 000 | 10 700 | 8 700 | 15.0 | 14 | 2 000 | 4 000 | 100 | 4B |
| | 457 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 12.3 | 14 | 2 000 | 4 000 | 50 | 4A |
| | 490 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 11.6 | 14 | 2 000 | 4 000 | 50 | 4A |
| | 581 | 15 800 | 15 800 | 15 800 | 15 000 | 9 200 | 7 500 | 8.7 | 14 | 2 000 | 4 000 | 50 | 4A |
| | 690 | 17 000 | 14 400 | 13 000 | 13 000 | 10 400 | 8 500 | 8.7 | 14 | 2 000 | 4 000 | 50 | 4A |

$M_{2max} = 1.2 \cdot M_{n2}$ ($n_2 \cdot h$ = 10 000)

# 309L


Z
F
F2
L
I
144
141
90
7
F1
B80x74
Ø225 f7
Ø278 f7
Ø348
C
15
74
25
HZ
15°
30°
Ø 17 n°12
120°
314
Ø 12 n°3
V3
V2
V1
165
Ø 100
HC
IEC
B5
E
L
165
Ø 100
C
54
50
100
50
100
300
PC
412.5
225
24
Ø 26 n°4
265
356
445
90
B80x74
PZ

# 309L

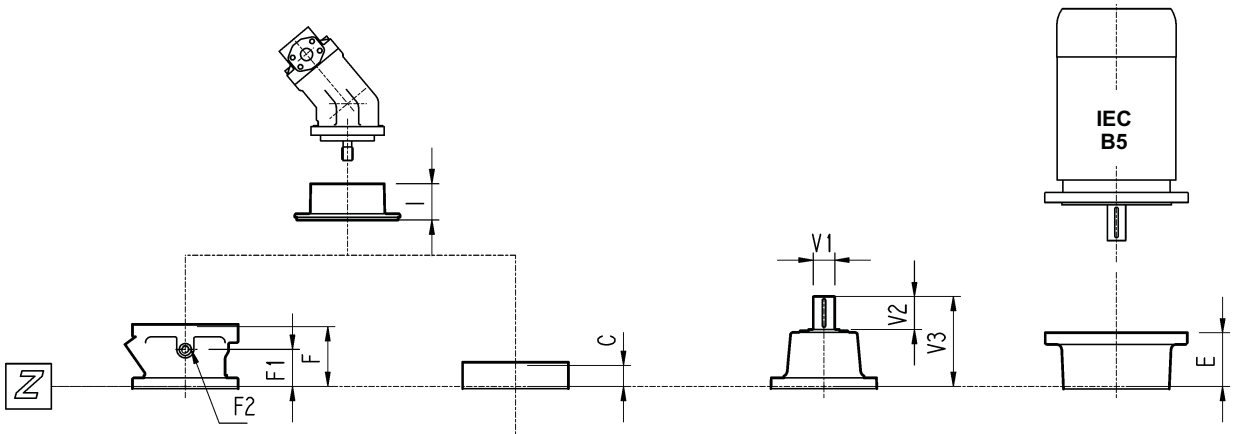


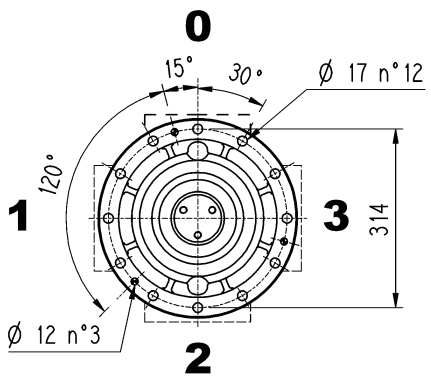

| | |
|---|---|
| **VERSIONE FP**<br>**FP VERSION**<br>**VERSION FP**<br>**VERSION FP** | COPPIA MAX. TRASMISSIBILE<br>MAX. TRANSMISSIBLE TORQUE<br>MAX. ÜBERTR. MOMENT<br>COUPLE MAX. TRANSMISSIBLE |
| **25 000 Nm** | |

| | L | | | | Kg | | | | | | I | | | | | | Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **HZ HC** | **PC PZ** | **FZ** | **FP** | **HZ HC** | **PC PZ** | **FZ** | **FP** | **C** | Entrata Input Antrieb Entrée | | **F** | **F1** | **F2** | Tipo Type Typ Type | Entrata Input Antrieb Entrée | |
| **309 L1** | 126 | 267 | 99 | 101 | 115 | 130 | 95 | 100 | 51 | B | | 201 | 153 | 1/4 G | 6 | B | 28 |
| **309 L2** | 215 | 356 | 188 | 190 | 127 | 142 | 107 | 112 | 37 | A | | 145 | 95 | 1/4 G | 5 | A | 16 |
| **309 L3** | 280 | 421 | 253 | 255 | 134 | 149 | 114 | 119 | 37 | A | | 105 | 65 | 1/4 G | 4 | A | 10 |
| **309 L4** | 333 | 474 | 306 | 308 | 138 | 153 | 118 | 123 | 37 | A | 191 | 105 | 65 | 1/4 G | 4 | A | 10 |

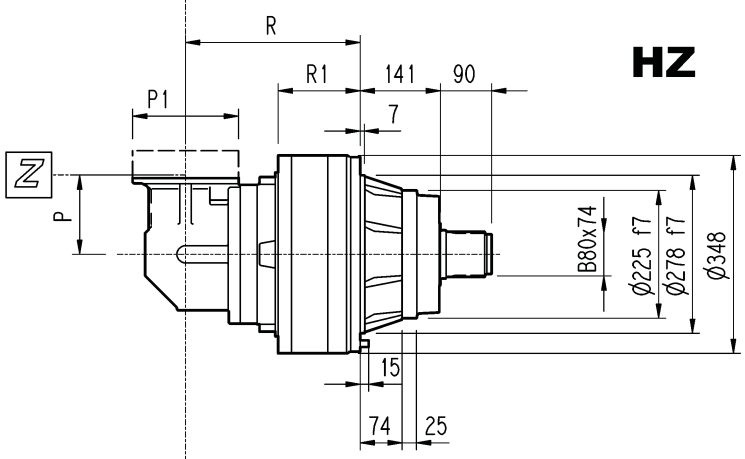
| | V1 | V2 | V3 | Kg | V1 | V2 | V3 | Kg | E | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | **IEC 71** | **IEC 80** | **IEC 90** | **IEC 100** | **IEC 112** | **IEC 132** | **IEC 160** | **IEC 180** | **IEC 200** | **IEC 225** | **IEC 250** |
| **309 L1** | 80 | 130 | 315 | 35 | 60 | 105 | 313 | 28 | | | | | | | | | 195 | 186 | 216 | 215 |
| **309 L2** | 48 | 82 | 239 | 15 | | | | | | | | | | | 114 | 144 | 144 | 174 | | |
| **309 L3** | 24 | 36 | 137.5 | 6 | 38 | 58 | 158 | 7 | | 65 | 84 | 84 | 94 | 94 | 114 | 144 | | | | |
| **309 L4** | 24 | 36 | 137.5 | 6 | 38 | 58 | 158 | 7 | | 65 | 84 | 84 | 94 | 94 | 114 | 144 | | | | |

# 309R

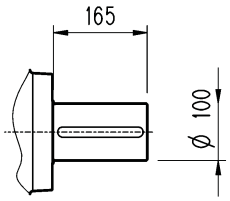


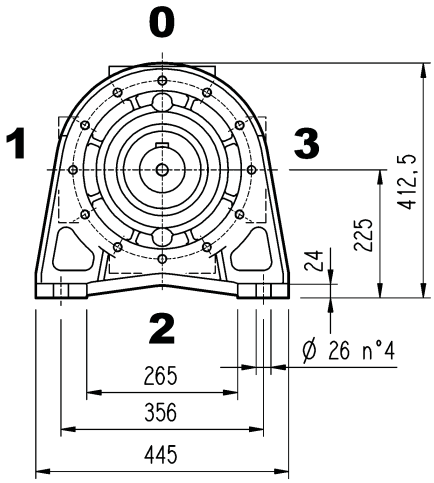




## HZ

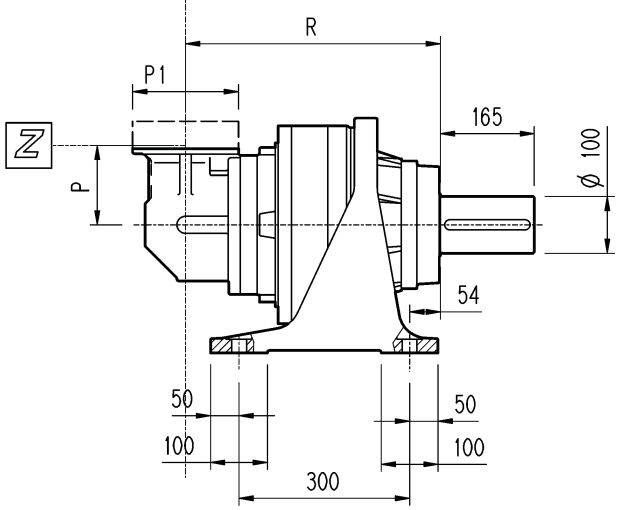



## HC

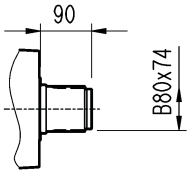


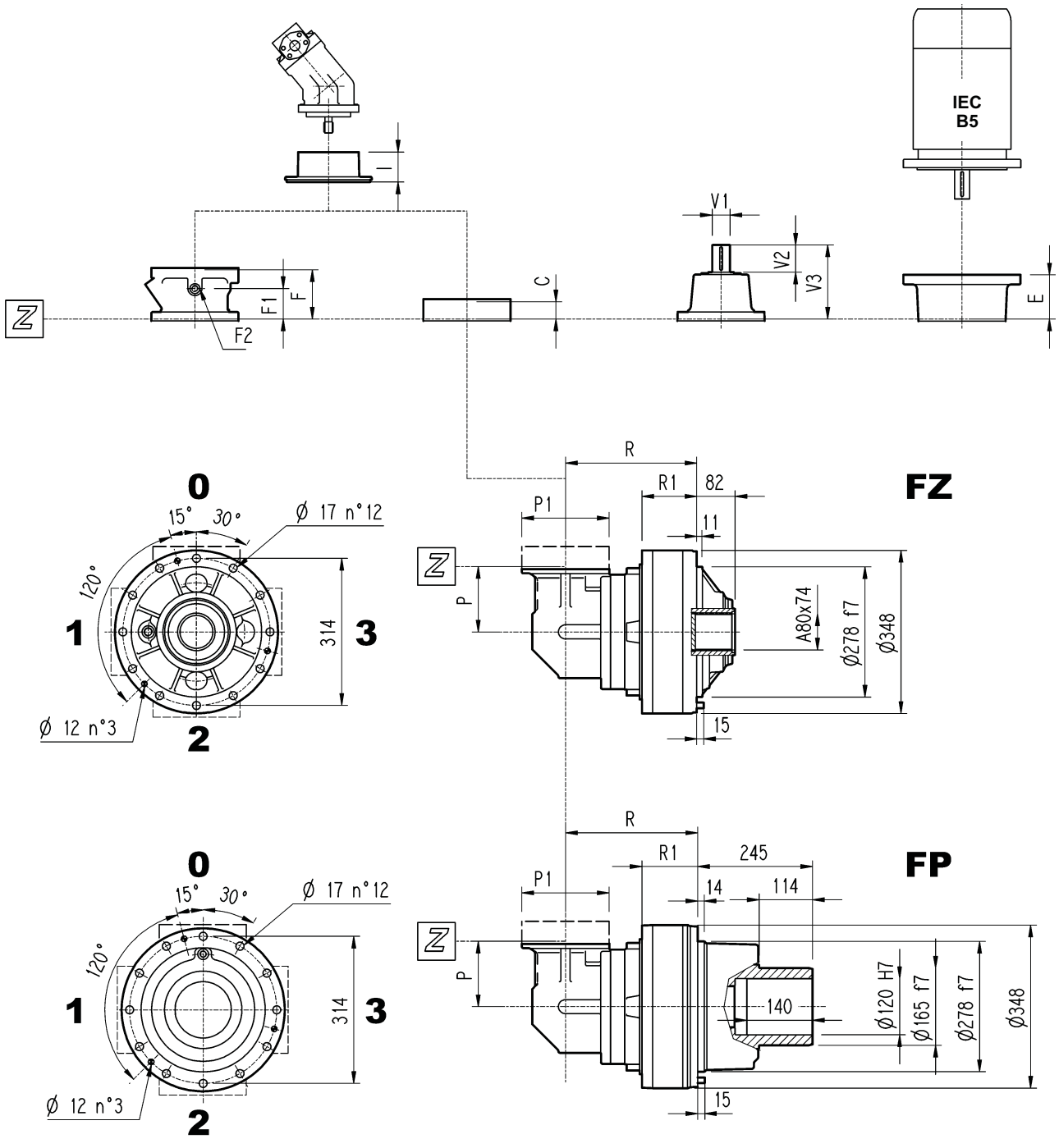

## PC




## PZ



# 309R



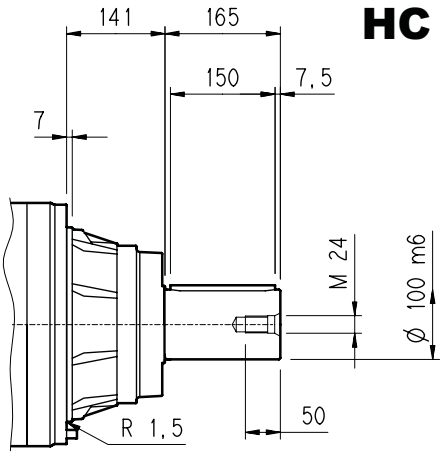

| | |
|---|---|
| **VERSIONE FP**<br>**FP VERSION**<br>**VERSION FP**<br>**VERSION FP** | COPPIA MAX. TRASMISSIBILE<br>MAX. TRANSMISSIBLE TORQUE<br>MAX. ÜBERTR. MOMENT<br>COUPLE MAX. TRANSMISSIBLE |
| **25 000 Nm** | |

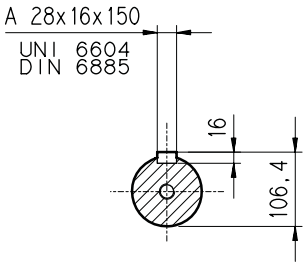
| | R | | | | R1 | | | P | P1 | Kg | | | | | | I | F | F1 | F2 | | | Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HZ HC | PC PZ | FZ | FP | HZ HC | FZ | FP | | | HZ HC | PC PZ | FZ | FP | C | Entrata Input Antrieb Entrée | | | | | Tipo Type Typ Type | Entrata Input Antrieb Entrée | |
| **309 R2** | 245 | 386 | 218 | 220 | 168 | 141 | 143 | 225 | 245 | 165 | 180 | 145 | 150 | 37 | A | | 145 | 95 | 1/4 G | 5 | A | 16 |
| **309 R3** | 307 | 448 | 280 | 282 | 144 | 117 | 119 | 140 | 186 | 147 | 162 | 127 | 132 | 37 | A | | 105 | 65 | 1/4 G | 4 | A | 10 |
| **309 R4** | 372 | 513 | 345 | 347 | 144 | 117 | 119 | 122 | 186 | 148 | 163 | 128 | 133 | 37 | A | 191 | 105 | 65 | 1/4 G | 4 | A | 10 |

| | V1 | V2 | V3 | Kg | V1 | V2 | V3 | Kg | E | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | IEC 71 | IEC 80 | IEC 90 | IEC 100 | IEC 112 | IEC 132 | IEC 160 | IEC 180 | IEC 200 |
| **309 R2** | 48 | 82 | 239 | 15 | | | | | | | | | | | 114 | 144 | 144 | 174 |
| **309 R3** | 24 | 36 | 137.5 | 6 | 38 | 58 | 158 | 7 | | 65 | 84 | 84 | 94 | 94 | 114 | 144 | | |
| **309 R4** | 24 | 36 | 137.5 | 6 | 38 | 58 | 158 | 7 | | 65 | 84 | 84 | 94 | 94 | 114 | 144 | | |

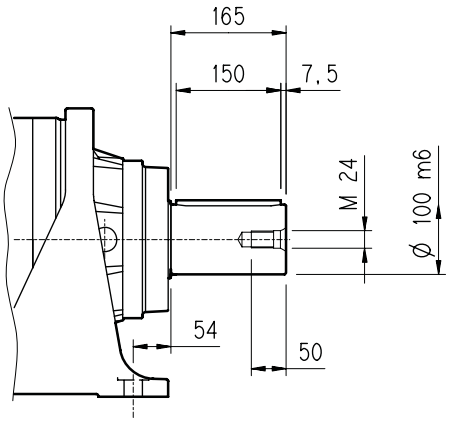
# 309L - 309R

## HC

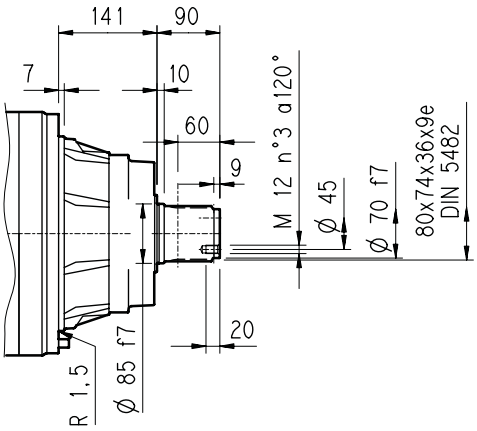


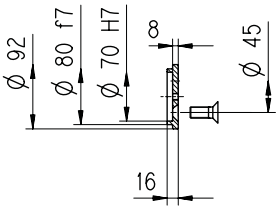




## PC

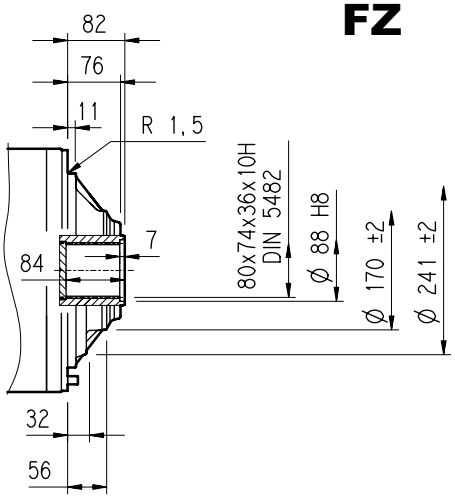



## HZ

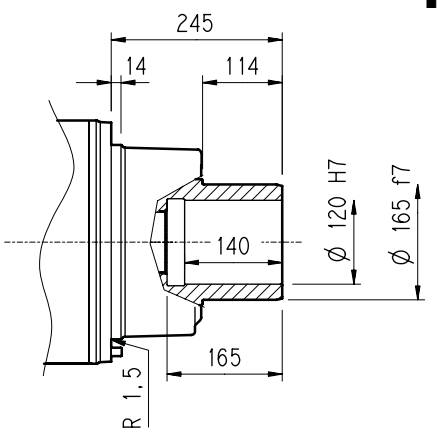


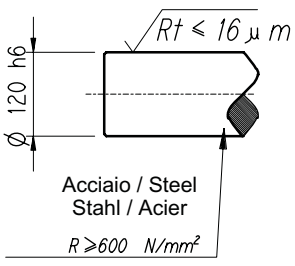



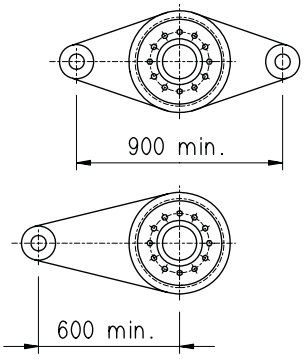

## FZ




## FP



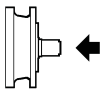



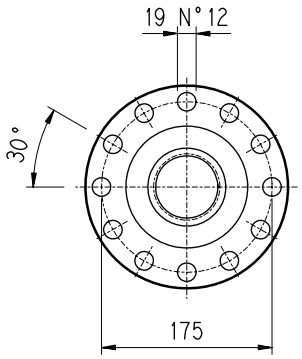

| | | |
|---|---|---|
| **VERSIONE FP**<br>**FP VERSION**<br>**VERSION FP**<br>**VERSION FP** | COPPIA MAX. TRASMISSIBILE<br>MAX. TRANSMISSIBLE TORQUE<br>MAX. ÜBERTR. MOMENT<br>COUPLE MAX.TRANSMISSIBLE | **25 000 Nm** |

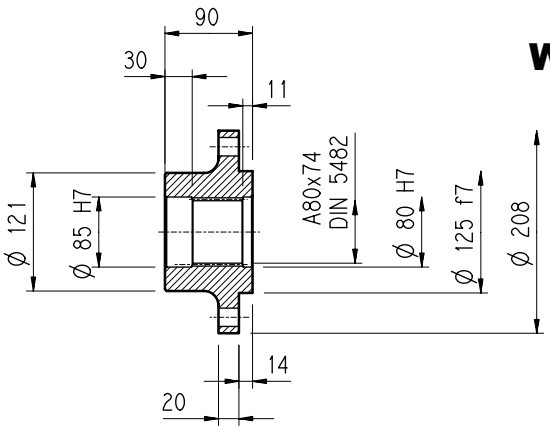
# 309L - 309R

**Flangia / Flange**
**Flansch / Brides**

## W0A



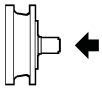


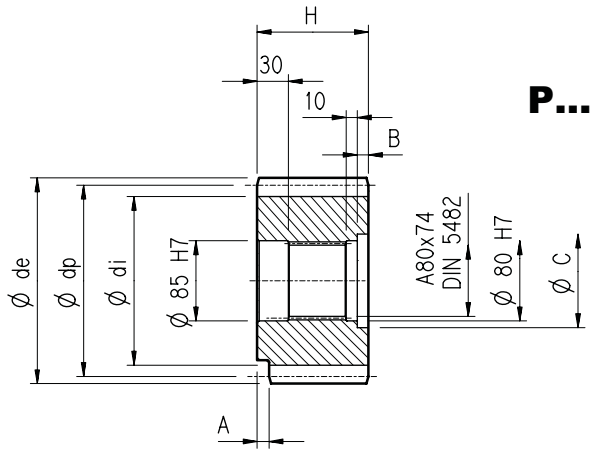




Materiale : Acciaio C40
Material : Steel C40
Material : Stahl C40
Màterial : Acier C40

**Pignoni per rotazione / Output pinions**
**Ritzel / Pignons**

## P...



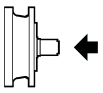


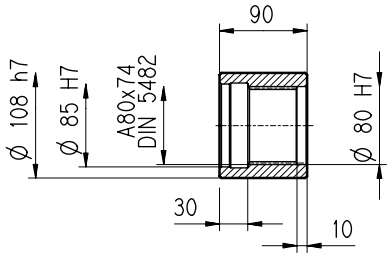

| | m | z | x | dp | di | de | H | A | B | C | ★ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **PFG** | 8 | 16 | 0.500 | 128 | 117 | 149.5 | 90 | 0 | 0 | 0 | ■ |
| **PHC** | 10 | 12 | 0.450 | 120 | 104 | 145 | 90 | 0 | 0 | 0 | ■ |
| **PHE** | 10 | 14 | 0.320 | 140 | 121 | 162.5 | 116 | 13 | 26 | 95 | ■ |
| **PHF** | 10 | 15 | 0.150 | 150 | 130 | 171.5 | 107 | 20 | 17 | 100 | ■ |
| **PHG** | 10 | 16 | 0.500 | 160 | 145 | 186 | 90 | 0 | 0 | 0 | □ |
| **PHH1** | 10 | 17 | 0 | 170 | 145 | 190 | 90 | 0 | 0 | 0 | □ |
| **PHH2** | 10 | 17 | 0.500 | 170 | 154 | 198 | 90 | 0 | 0 | 0 | □ |
| **PLD** | 12 | 13 | 0.500 | 156 | 138 | 192 | 102 | 0 | 12 | 95 | ■ |
| **PLE** | 12 | 14 | 0.500 | 168 | 150 | 199.2 | 90 | 0 | 0 | 0 | ■ |
| **PLI** | 12 | 18 | 0.500 | 216 | 198 | 249.6 | 107 | 7 | 17 | 95 | ■ |
| **PLT** | 12 | 26 | 0 | 312 | 282 | 336 | 90 | 10 | 0 | 0 | □ |

| ★ | Materiale/Material/Material/Màterial |
|---|---|
| ■ | Acciaio 39NiCrMo3 Bonificato<br>Steel 39NiCrMo3 hardened and tempered<br>Vergüteter Stahl 39NiCrMo3<br>Acier bonifiè 39NiCrMo3 |
| □ | Acciaio 18NiCrMo5 Cementato e temprato<br>Steel 18NiCrMo5 Case hardened<br>Einsatzstahl 18NiCrMo5 Einsatzgehärtet<br>Acier cementè et temprè 18NiCrMo5 |

**Manicotti lisci / Sleeve couplings**
**Naben / Manchons lisses a cannelure interieure**

## M0A

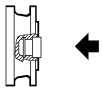


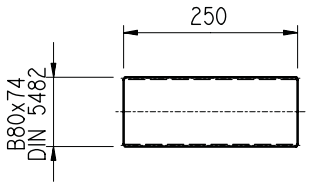



Materiale : Acciaio 16CrNi4
Material : Steel 16CrNi4
Material : Stahl 16CrNi4
Màterial : Acier 16CrNi4

**Barre scanalate / Splined bars**
**Vielkeilwellen / Barre cannelée**

## B0A

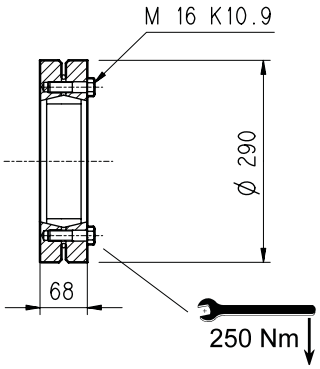





Mat. acciaio 18NiCrMo5 UNI 5331 da cementare e temprare 50-55 HRC
Case hardening steel 18NiCrMo5 UNI 5331
must be case hardened 50-55 HRC
Material: Einsatzstahl 18NiCrMo5 UNI 5331
muss einsatzgehärtet werden 50-55 HRC
Acier 18 NiCrMo5 UNI 5331 doit être cémenté trempé 50-55 HRC

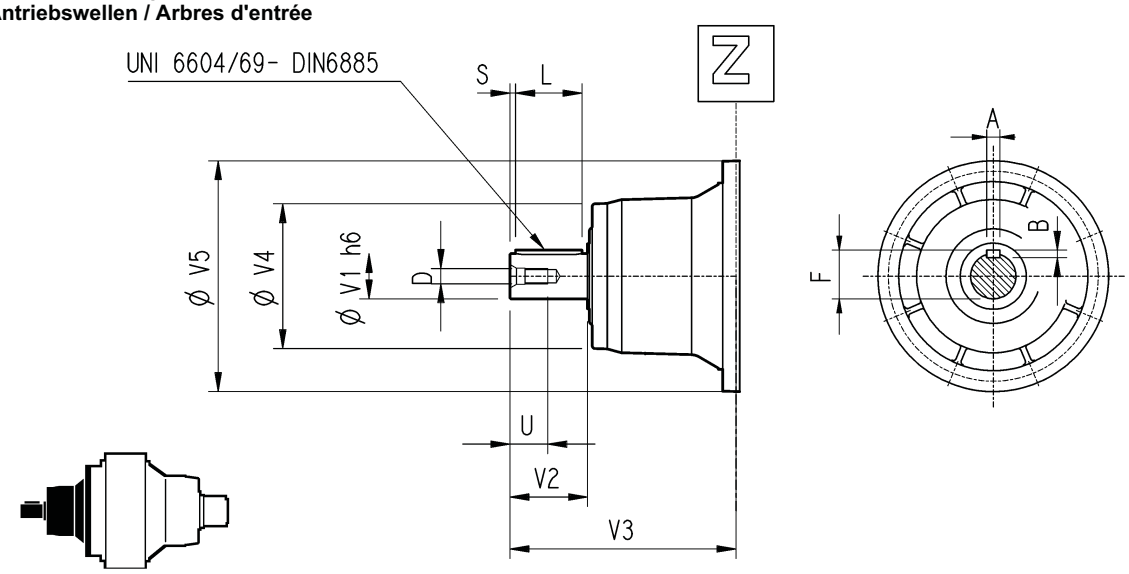
**Giunto ad attrito / Shrink disc**
**Schrumpfscheibe / Frette de serrage**

## G0A



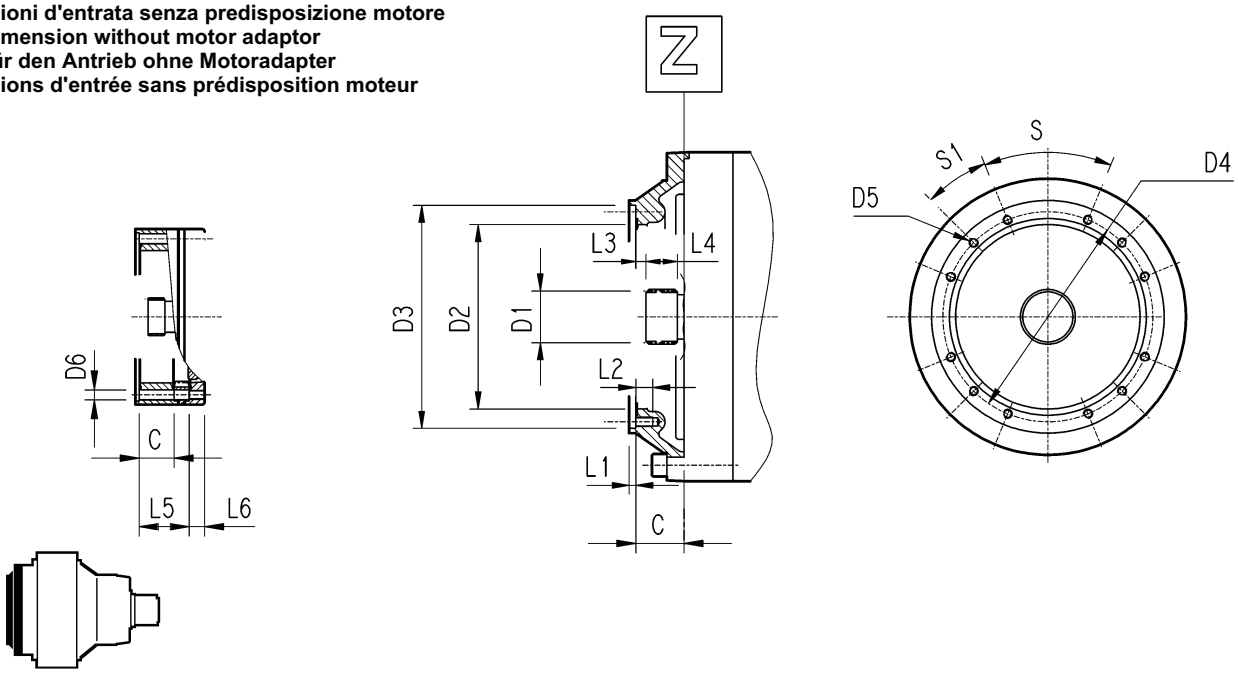
# 309L - 309R

**Alberi veloci / Input shaft**
**Antriebswellen / Arbres d'entrée**




| | CODE | V1 | V2 | V3 | V4 | V5 | A | B | F | L | S | D | U |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **309 L1** | V07B | 80 | 130 | 315 | 200 | 345 | 22 | 14 | 85 | 110 | 10 | M16 | 36 |
| | V07A | 60 | 105 | 313 | 155 | 345 | 18 | 11 | 64 | 90 | 7.5 | M16 | 36 |
| **309 L2** | V05B | 48 | 82 | 239 | 155 | 245 | 14 | 9 | 51.5 | 70 | 6 | M16 | 36 |
| **309 L3** | V01A | 24 | 36 | 137.5 | 120 | 186 | 8 | 7 | 27 | 30 | 3 | M8 | 19 |
| | V01B | 38 | 58 | 158 | 120 | 186 | 10 | 8 | 41 | 50 | 4 | M12 | 28 |
| **309 L4** | V01A | 24 | 36 | 137.5 | 120 | 186 | 8 | 7 | 27 | 30 | 3 | M8 | 19 |
| | V01B | 38 | 58 | 158 | 120 | 186 | 10 | 8 | 41 | 50 | 4 | M12 | 28 |
| **309 R2** | V05B | 48 | 82 | 239 | 155 | 245 | 14 | 9 | 51.5 | 70 | 6 | M16 | 36 |
| **309 R3-R4** | V01A | 24 | 36 | 137.5 | 120 | 186 | 8 | 7 | 27 | 30 | 3 | M8 | 19 |
| | V01B | 38 | 58 | 158 | 120 | 186 | 10 | 8 | 41 | 50 | 4 | M12 | 28 |

**Dimensioni d'entrata senza predisposizione motore**
**Input dimension without motor adaptor**
**Maße für den Antrieb ohne Motoradapter**
**Dimensions d'entrée sans prédisposition moteur**




| | C | D1 | D2 | D3 | D4 | D5 | D6 | L1 | L2 | L3 | L4 | L5 | L6 | S | S1 | Entrata Input Antrieb Entrée |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **309 L1** | 51 | 58x53 DIN 5482 | 195 | 236 H7 | 222 | M10 n°12 | / | 4 | 18 | 11 | 22 | / | / | 45° | 22.5° | B |
| **309 L2** | 37 | 40x36 DIN 5482 | 140 | 178 H7 | 165 | M10 n°8 | 0 | 4 | 18 | 9 | 18 | 0 | 0 | 45° | 45° | A |
| **309 L3** | 37 | 40x36 DIN 5482 | 140 | 178 H7 | 165 | M10 n°8 | 11 | 4 | 0 | 9 | 18 | 65 | 18 | 45° | 45° | A |
| **309 L4** | 37 | 40x36 DIN 5482 | 140 | 178 H7 | 165 | M10 n°8 | 11 | 4 | 0 | 9 | 18 | 118 | 18 | 45° | 45° | A |
| **309 R2** | 37 | 40x36 DIN 5482 | 140 | 178 H7 | 165 | M10 n°8 | 11 | 4 | 18 | 9 | 18 | 0 | 0 | 45° | 45° | A |
| **309 R3-R4** | 37 | 40x36 DIN 5482 | 140 | 178 H7 | 165 | M10 n°8 | 11 | 4 | / | 9 | 18 | 37 | 18 | 45° | 45° | A |

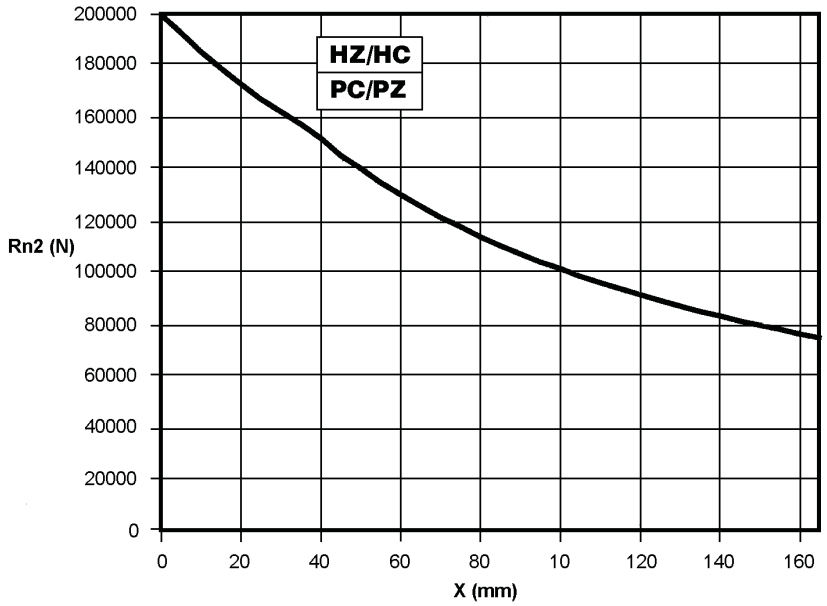
# 309L - 309R

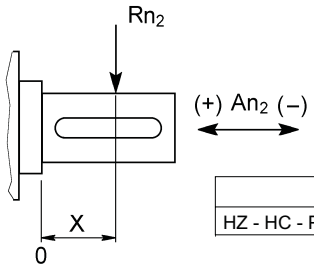
Carichi radiali ed assiali ammissibili sull'albero lento per un valore di $Fh_2 : n_2 \cdot h = 10\,000$

Permissible radial and axial loads on output shaft with $Fh_2$ $n_2 \cdot h = 10\,000$

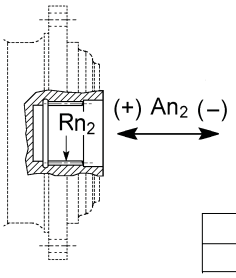
An der Ausgangswelle zulässige Radiallasten und Axialkräfte für einen Wert von $Fh_2$ $n_2 \cdot h = 10\,000$

Charges radiales et axiales admises sur l'arbre lent pour une valeur de $Fh_2 : n_2 \cdot h = 10\,000$




| | An2 (+) | An2 (-) |
|---|---|---|
| HZ - HC - PC - PZ | 160 000 | 80 000 |




| | Rn2 | An2 (+/-) |
|---|---|---|
| FZ | 36 000 | 37 000 |

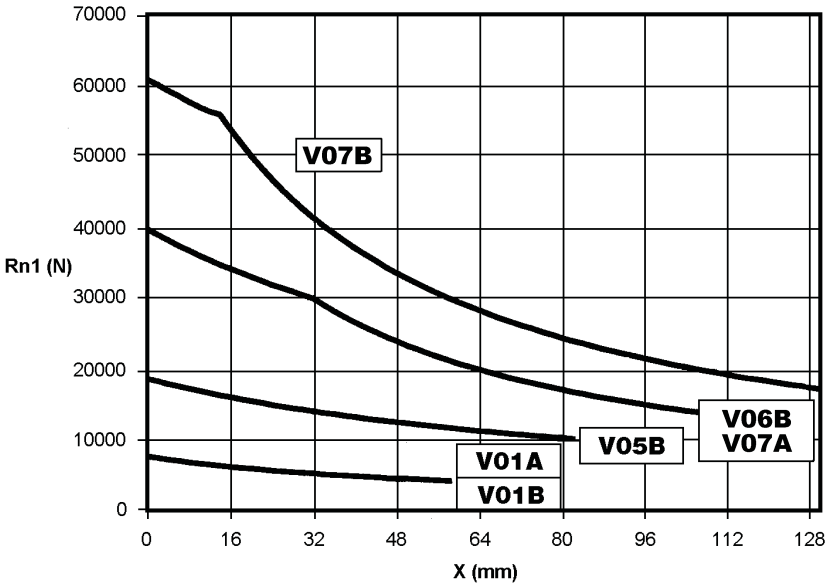
| Fattore $fh_2$ correttivo per carichi sugli alberi<br>Load corrective factor $fh_2$ on shafts<br>Korrektionsfaktor $fh_2$ für wellenbelastungen<br>Facteur de corretion $fh_2$ pour charges sur les arbres | | $Fh_2 = n_2 \cdot h$ | 10 000 | 25 000 | 50 000 | 100 000 | 500 000 | 1 000 000 |
|---|---|---|---|---|---|---|---|---|
| | $fh_2$ | FZ | **1** | **0.74** | **0.58** | **0.46** | **0.27** | **0.21** |
| | | HZ - HC - PC - PZ | **1** | **0.76** | **0.61** | **0.50** | **0.31** | **0.25** |

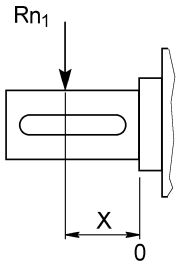
Carichi radiali ammissibili sull'albero veloce per un valore di $Fh_1$ $n_1 \cdot h = 250\,000$

Permissible radial loads on input shaft with $Fh_1 : n_1 \cdot h = 250\,000$

An der Antriebswelle zulässige Radiallasten für einen Wert von $Fh_1 : n_1 \cdot h = 250\,000$

Charges radiales admises sur l'arbre d'entrée pour une valeur de $Fh_1 : n_1 \cdot h = 250\,000$




| Fattore $fh_1$ correttivo per carichi sugli alberi<br>Load corrective factor $fh_1$ on shafts<br>Korrektionsfaktor $fh_1$ für wellenbelastungen<br>Facteur de corretion $fh_1$ pour charges sur les arbres | $Fh_1 = n_1 \cdot h$ | 250 000 | 500 000 | 1 000 000 | 2 000 000 | 5 000 000 | 10 000 000 |
|---|---|---|---|---|---|---|---|
| | $fh_1$ | **1** | **0.79** | **0.63** | **0.50** | **0.37** | **0.29** |