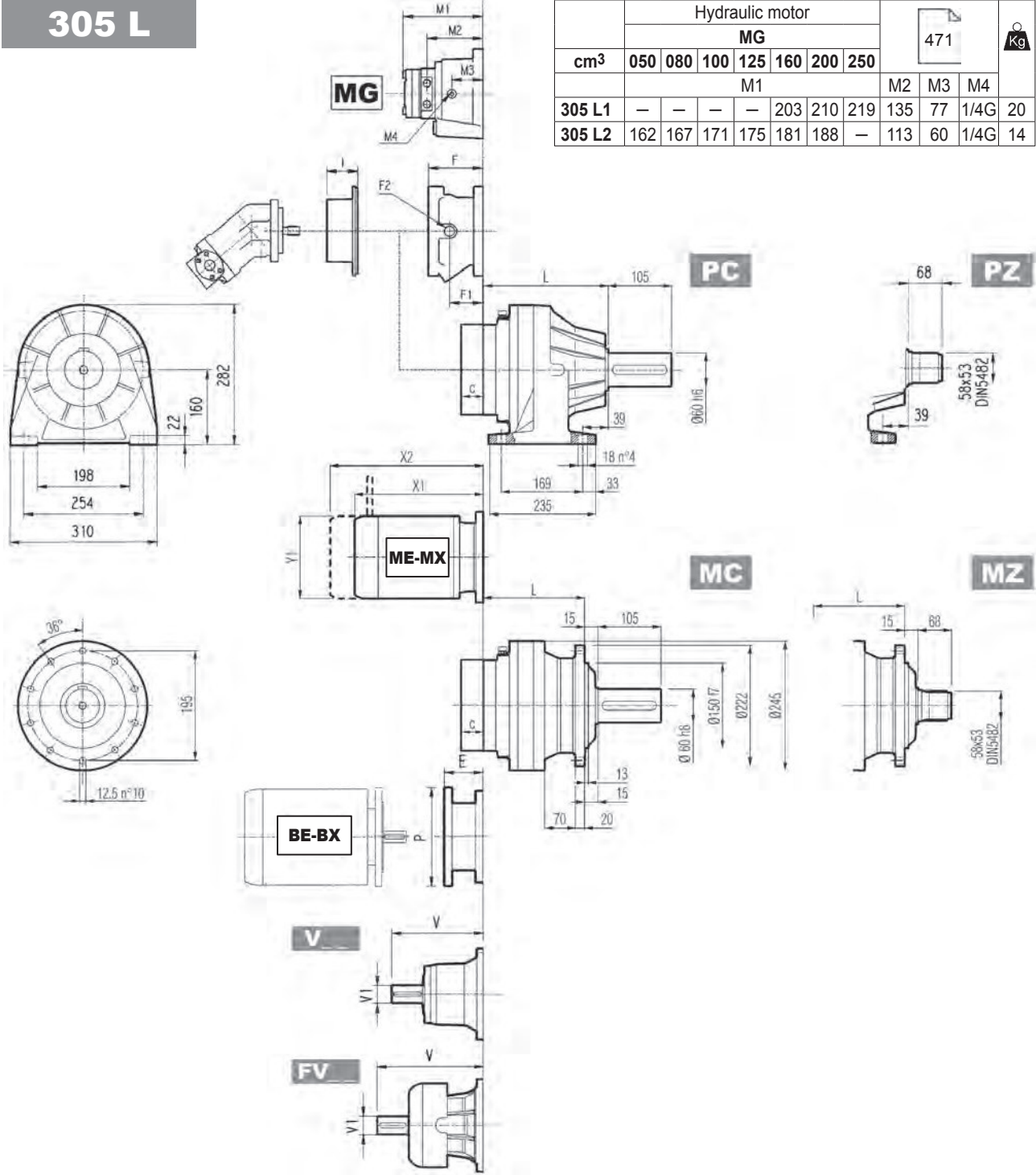


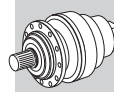
305 L



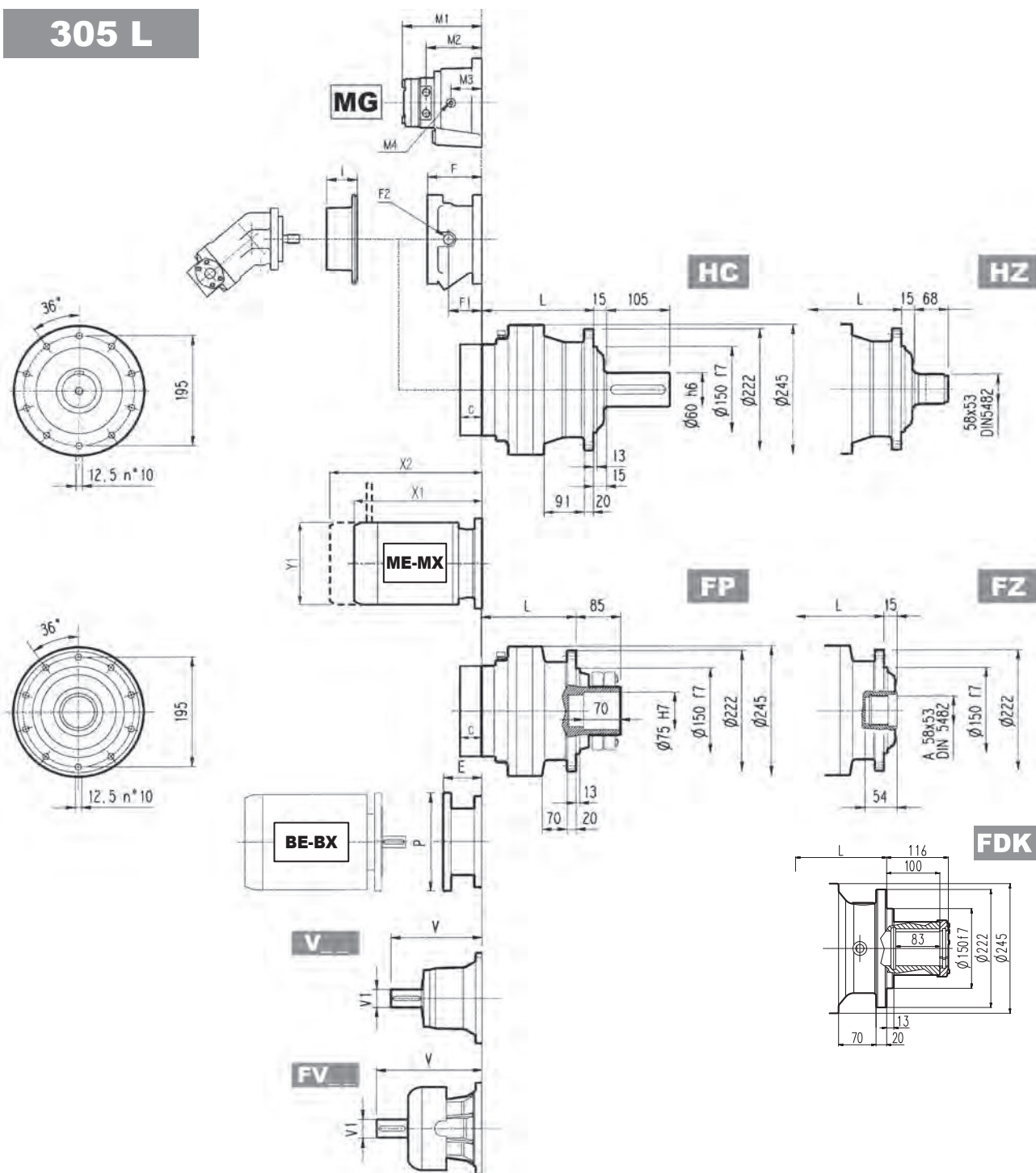
| | | Hydraulic motor | | | | | | | 471 | | | Kg | | |
|-----------------|--|-----------------|-----|-----|-----|-----|-----|-----|-----|----|------|----|----|----|
| | | MG | | | | | | | | | | | | |
| cm ³ | | 050 | 080 | 100 | 125 | 160 | 200 | 250 | | | | | | |
| | | | | | | | | | M1 | | | M2 | M3 | M4 |
| 305 L1 | | — | — | — | — | 203 | 210 | 219 | 135 | 77 | 1/4G | 20 | | |
| 305 L2 | | 162 | 167 | 171 | 175 | 181 | 188 | — | 113 | 60 | 1/4G | 14 | | |

| | L | | | | Kg | | | |
|--------|---------|---------|---------|---------------|---------|---------|---------|---------------|
| | MC - MZ | PC - PZ | HC - HZ | FP - FZ - FDK | MC - MZ | PC - PZ | HC - HZ | FP - FZ - FDK |
| 305 L1 | 143 | 183 | 168 | 143 | 36 | 45 | 40 | 36 |
| 305 L2 | 208 | 248 | 233 | 208 | 43 | 52 | 47 | 43 |
| 305 L3 | 261 | 301 | 286 | 261 | 47 | 56 | 51 | 47 |
| 305 L4 | 314 | 354 | 339 | 314 | 51 | 60 | 55 | 51 |

| | V | | | Kg | | | V | | | Kg | | | C | Input | I | F | F1 | F2 | Type | Input | Kg |
|--------|-------|----|----|-----|----|----|-----|----|----|----|----|----|----|-------|-----|-----|-------|-------|------|-------|----|
| | V | V1 | Kg | V | V1 | Kg | V | V1 | Kg | V | V1 | Kg | | | | | | | | | |
| 305 L1 | 239 | 48 | 15 | — | — | — | 276 | 48 | 17 | — | — | — | 37 | A | 461 | 145 | 95 | 1/4 G | 5 | A | 16 |
| 305 L2 | 137.5 | 24 | 6 | 158 | 38 | 7 | — | — | — | — | — | 37 | A | 105 | | 65 | 1/4 G | 4 | A | 10 | |
| 305 L3 | 137.5 | 24 | 6 | 158 | 38 | 7 | — | — | — | — | — | 37 | A | 105 | | 65 | 1/4 G | 4 | A | 10 | |
| 305 L4 | 137.5 | 24 | 6 | 158 | 38 | 7 | — | — | — | — | — | 37 | A | 105 | | 65 | 1/4 G | 4 | A | 10 | |



305 L

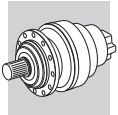


FP

$M_{2max} = 7500 \text{ Nm}$

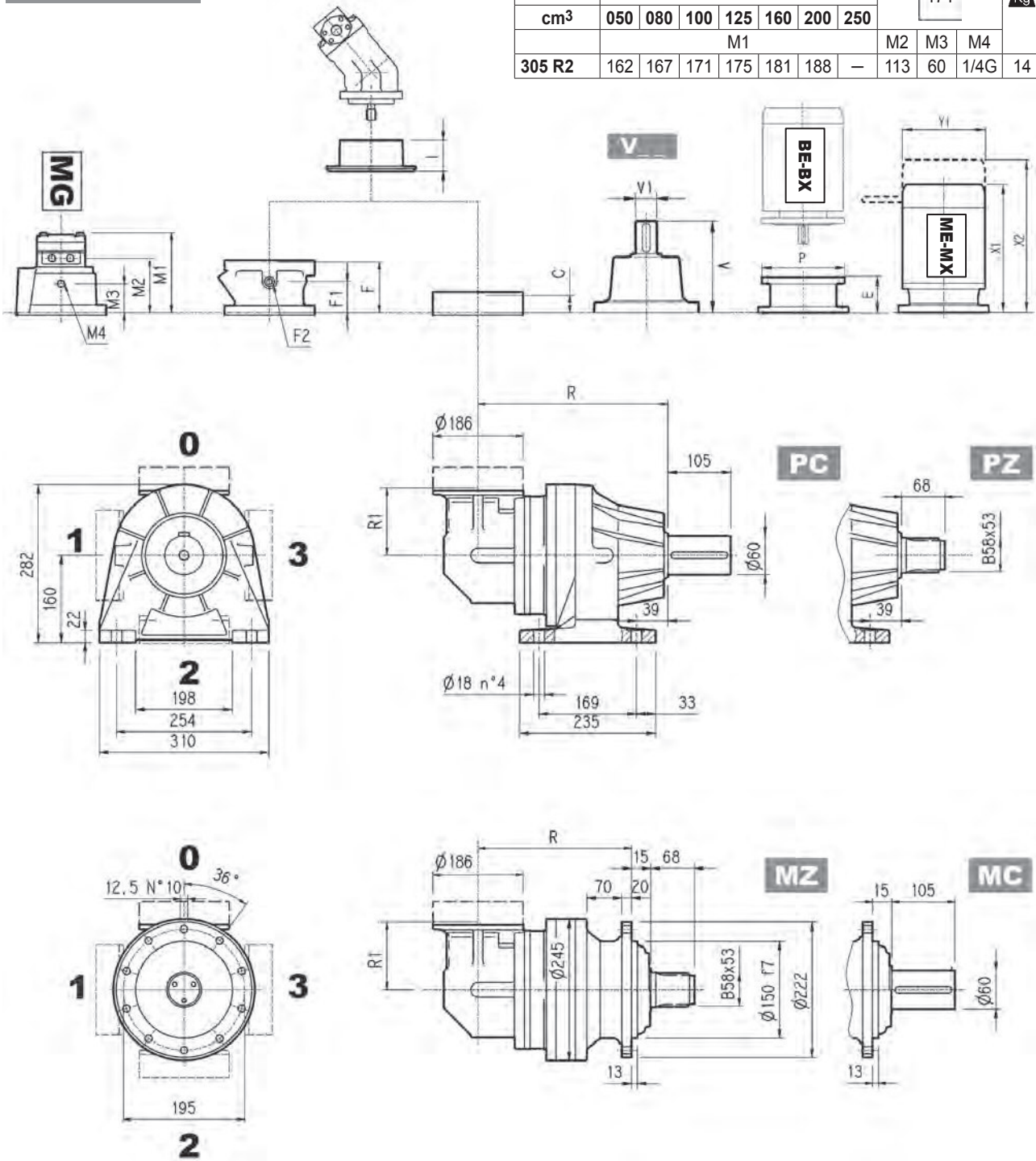
| | P71 | | P80 | | P90 | | P100 | | P112 | | P132 | | P160 | | P180 | | P200 | |
|--------|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | E | P | E | P | E | P | E | P | E | P | E | P | E | P | E | P | E | P |
| 305 L1 | — | — | — | — | — | — | — | — | — | — | 114 | 300 | 144 | 350 | 144 | 350 | 174 | 400 |
| 305 L2 | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 | 144 | 350 | — | — | — | — |
| 305 L3 | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 | 144 | 350 | — | — | — | — |
| 305 L4 | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 | 144 | 350 | — | — | — | — |

| | S1 + M1 | | | S2 + ME2S/MX2S | | | S3 + ME3S/MX3S | | | S3 + ME3L/MX3L | | | S4 + ME4/MX4 | | | S5 + ME5S/MX5S | | | S5 + ME5L/MX5L | | |
|--------|---------|-----|-----|----------------|----|-----|----------------|----|-----|----------------|----|-----|--------------|----|-----|----------------|----|-----|----------------|----|-----|
| | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 |
| 305 L1 | — | — | — | — | — | — | — | — | — | — | — | — | 460 | — | 258 | 574 | — | 310 | 552 | — | 310 |
| 305 L2 | — | — | — | 324 | — | 156 | 357 | — | 195 | 401 | — | 195 | 460 | — | 258 | — | — | — | — | — | — |
| 305 L3 | 253 | 314 | 138 | 324 | — | 156 | 357 | — | 195 | 401 | — | 195 | 460 | — | 258 | — | — | — | — | — | — |
| 305 L4 | 253 | 314 | 138 | 324 | — | 156 | 357 | — | 195 | 401 | — | 195 | 460 | — | 258 | — | — | — | — | — | — |



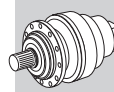
305 R

| cm ³ | Hydraulic motor | | | | | | | 471 | Kg | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|----|------|----|
| | MG | | | | | | | | | | |
| | 050 | 080 | 100 | 125 | 160 | 200 | 250 | | | | |
| | M1 | | | | | | | M2 | M3 | M4 | |
| 305 R2 | 162 | 167 | 171 | 175 | 181 | 188 | — | 113 | 60 | 1/4G | 14 |

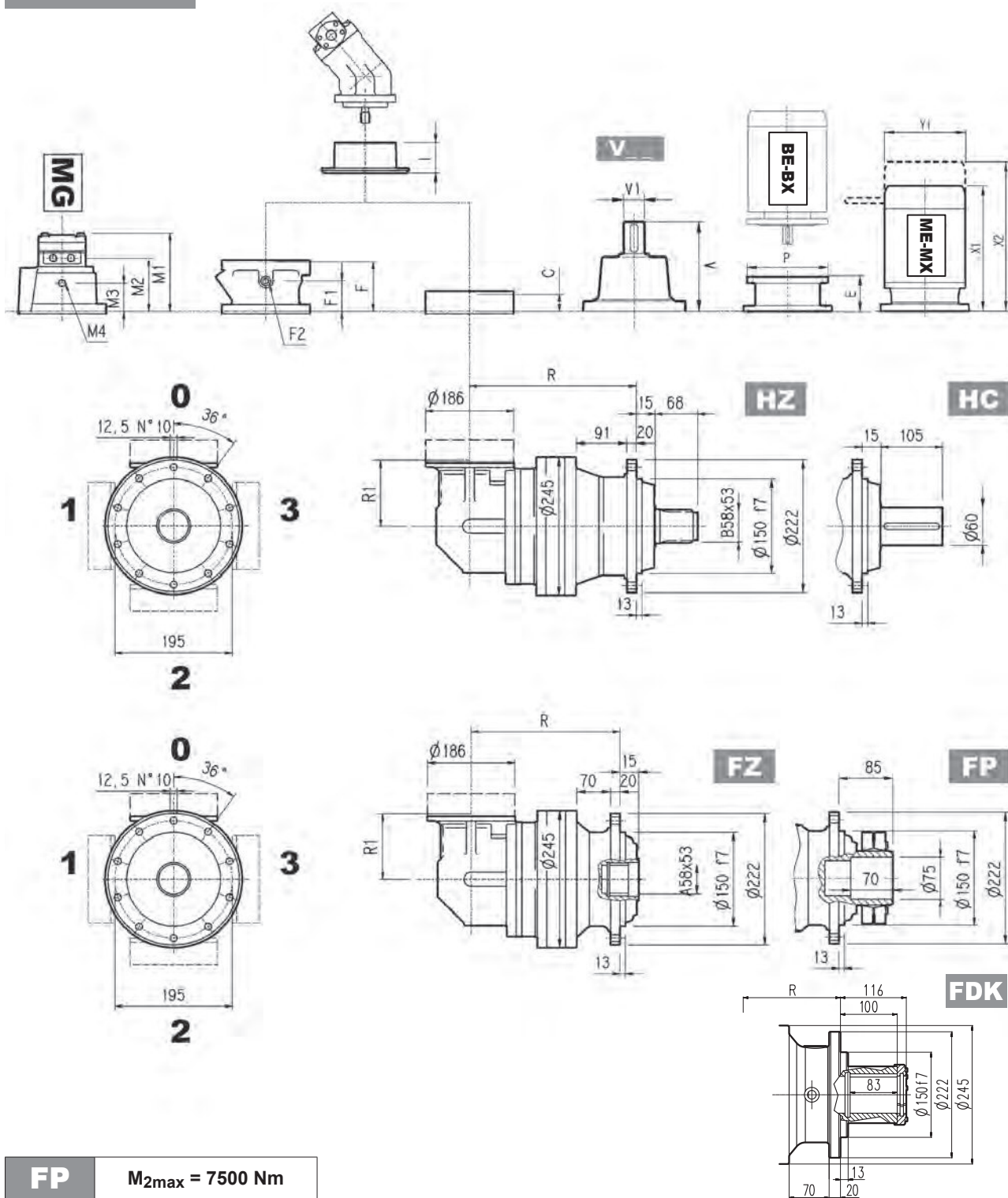


| | R | | | | R1 | Kg | | | |
|---------------|---------|---------|---------|---------------|-----|---------|---------|---------|---------------|
| | MC - MZ | PC - PZ | HC - HZ | FP - FZ - FDK | | MC - MZ | PC - PZ | HC - HZ | FP - FZ - FDK |
| 305 R2 | 235 | 375 | 260 | 235 | 140 | 56 | 65 | 60 | 56 |
| 305 R3 | 300 | 340 | 325 | 300 | 122 | 57 | 66 | 61 | 57 |
| 305 R4 | 353 | 393 | 378 | 353 | 122 | 61 | 70 | 65 | 61 |

| | Kg | | | | | | C | Input | I | Kg | | | | | |
|---------------|-------|----|----|-----|----|----|----|-------|-----|-----|----|-------|------|-------|----|
| | V | V1 | Kg | V | V1 | Kg | | | | F | F1 | F2 | Type | Input | Kg |
| 305 R2 | 137.5 | 24 | 6 | 158 | 38 | 7 | 37 | A | 461 | 105 | 65 | 1/4 G | 4 | A | 10 |
| 305 R3 | 137.5 | 24 | 6 | 158 | 38 | 7 | 37 | A | 461 | 105 | 65 | 1/4 G | 4 | A | 10 |
| 305 R4 | 137.5 | 24 | 6 | 158 | 38 | 7 | 37 | A | 461 | 105 | 65 | 1/4 G | 4 | A | 10 |



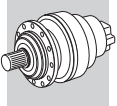
305 R



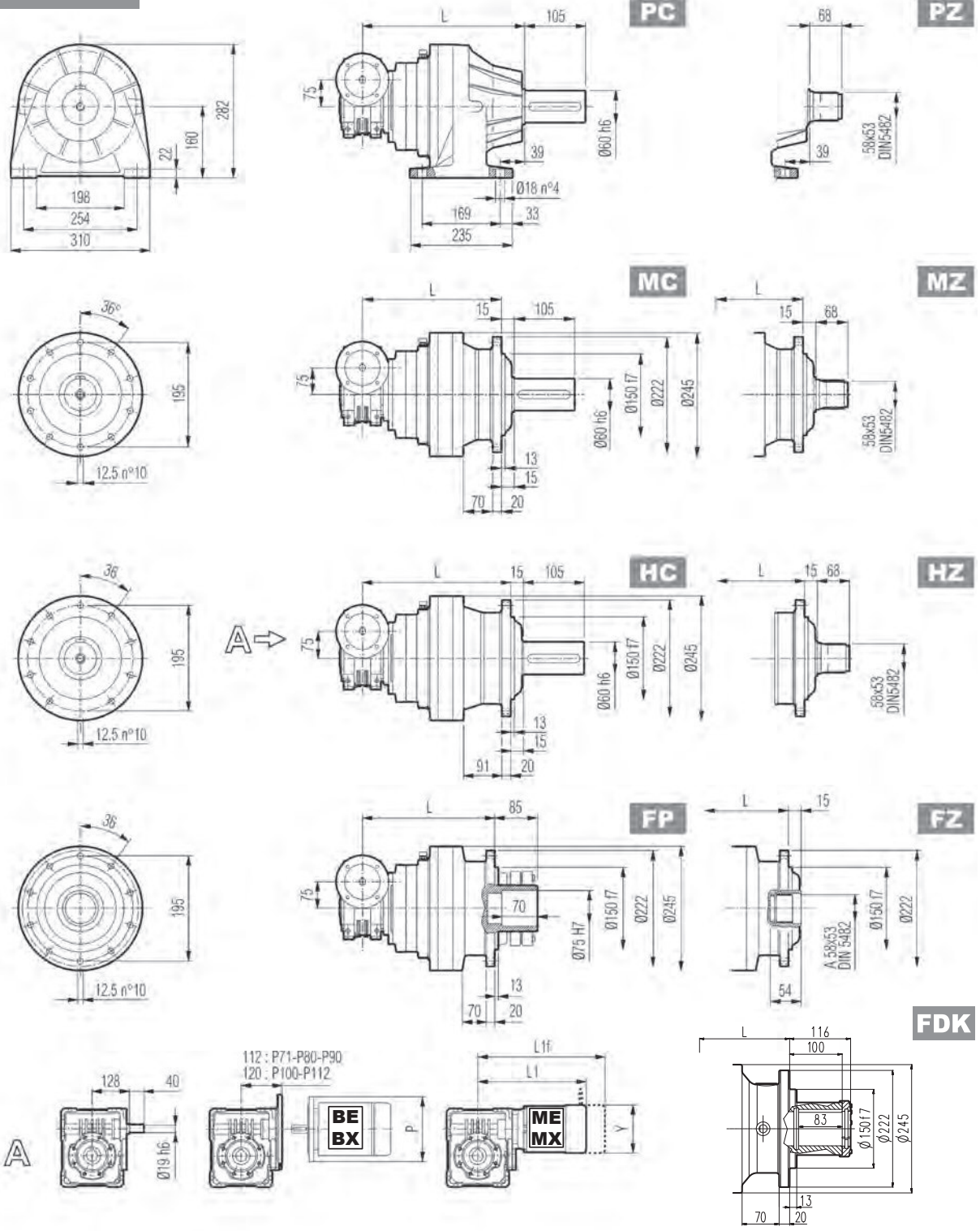
FP $M_{2max} = 7500 \text{ Nm}$

| | P71 | | P80 | | P90 | | P100 | | P112 | | P132 | |
|--------|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|
| | E | P | E | P | E | P | E | P | E | P | E | P |
| 305 R2 | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 |
| 305 R3 | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 |
| 305 R4 | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 |

| | S1 + M1 | | | S2 + ME2S/MX2S | | | S3 + ME3S/MX3S | | | S3 + ME3L/MX3L | | | S4 + ME4/MX4 | | |
|--------|---------|-----|-----|----------------|----|-----|----------------|----|-----|----------------|----|-----|--------------|----|-----|
| | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 |
| 305 R2 | — | — | — | 372 | — | 156 | 405 | — | 195 | 449 | — | 195 | 508 | — | 258 |
| 305 R3 | 253 | 314 | 138 | 372 | — | 156 | 405 | — | 195 | 449 | — | 195 | 508 | — | 258 |
| 305 R4 | 253 | 314 | 138 | 372 | — | 156 | 405 | — | 195 | 449 | — | 195 | 508 | — | 258 |



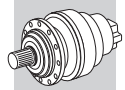
3/V 05 L3



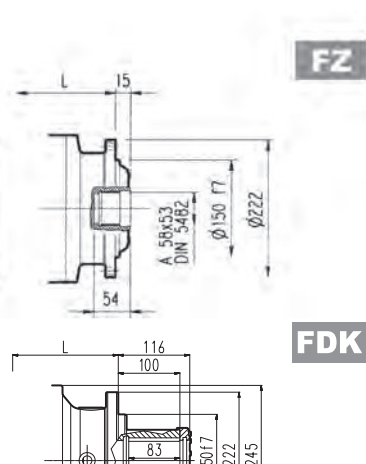
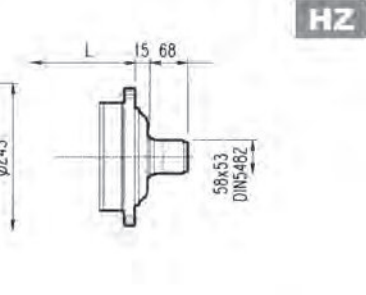
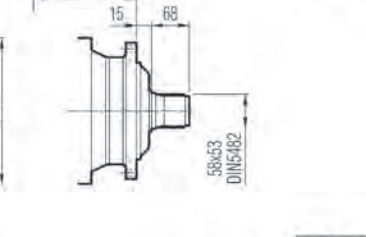
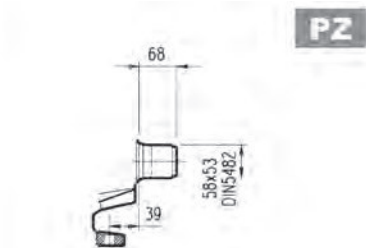
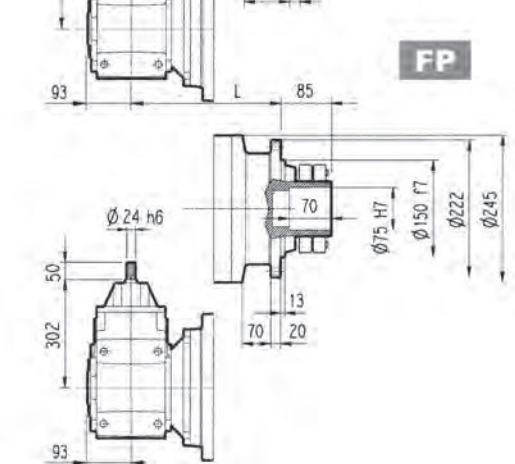
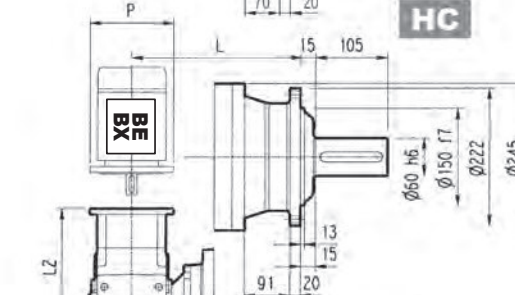
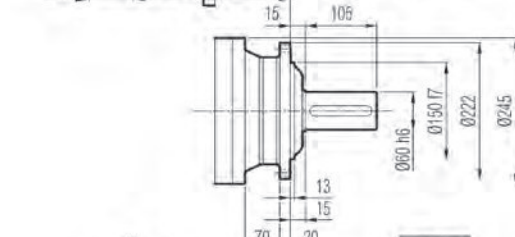
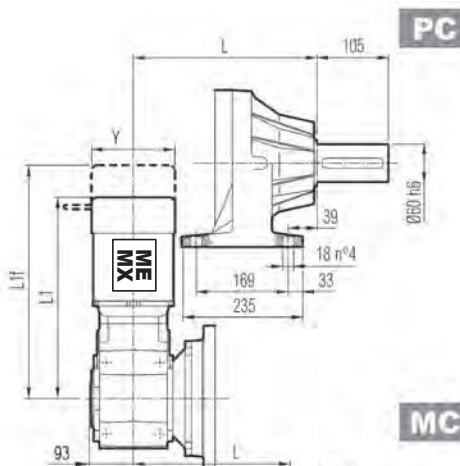
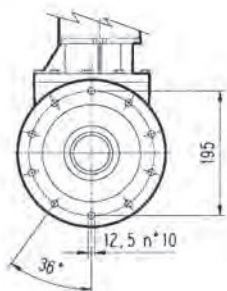
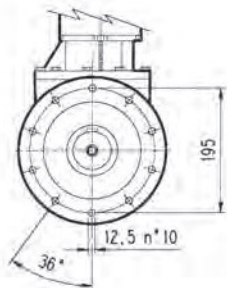
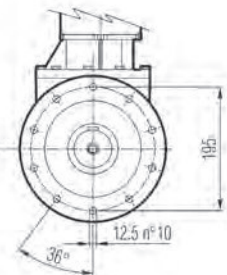
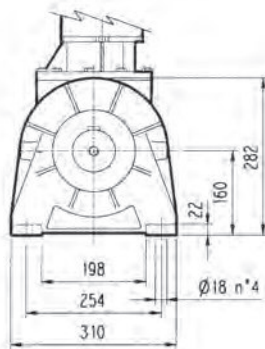
FP $M_{2max} = 7500 \text{ Nm}$

| | L | | | | | Kg | | | | P71 P | P80 P | P90 P | P100 P |
|-----------|---------|---------|---------|---------------|----|---------|---------|---------|---------------|----------|----------|----------|-----------|
| | MC - MZ | PC - PZ | HC - HZ | FP - FZ - FDK | | MC - MZ | PC - PZ | HC - HZ | FP - FZ - FDK | | | | |
| 3/V 05 L3 | 323 | 363 | 348 | 323 | 51 | 60 | 55 | 51 | 160 | 200 | 200 | 250 | |

| | S1 + M1 | | | S2 + ME2S/MX2S | | | S3 + ME3S/MX3S | | | S3 + ME3L/MX3L | | |
|-----------|---------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|
| | L1 | L1f | Y | L1 | L1f | Y | L1 | L1f | Y | L1 | L1f | Y |
| 3/V 05 L3 | 308 | 369 | 138 | 376 | — | 156 | 408 | — | 193 | 452 | — | 193 |

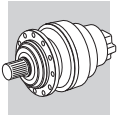


3/A 05 L2



FP $M_{2max} = 7500 \text{ Nm}$

| 3/A 05 L2 | L | | | | | | | | Kg | | | | | | |
|-----------|---------|-----|---------|----------------|---------|-----|----------------|-----|-------|----------------|---------|---------|---------------|-----|-----|
| | MC - MZ | | PC - PZ | | HC - HZ | | FP - FZ - FDK | | | MC - MZ | PC - PZ | HC - HZ | FP - FZ - FDK | | |
| | P63 | | P71 | | P80 | | P90 | | P100 | | P112 | | P132 | | |
| | L2 | P | L2 | P | L2 | P | L2 | P | L2 | P | L2 | P | L2 | P | |
| 3/A 05 L2 | 263 | 140 | 263 | 160 | 282.5 | 200 | 282.5 | 200 | 292.5 | 250 | 292.5 | 250 | 329 | 457 | |
| | S1 + M1 | | | S2 + ME2S/MX2S | | | S3 + ME3S/MX3S | | | S3 + ME3L/MX3L | | | S4 + ME4/MX4 | | |
| | L1 | L1f | Y | L1 | L1f | Y | L1 | L1f | Y | L1 | L1f | Y | L1 | L1f | Y |
| 3/A 05 L2 | 418 | 439 | 138 | 491 | — | 156 | 522 | — | 195 | 566 | — | 195 | 630 | — | 258 |



305 L

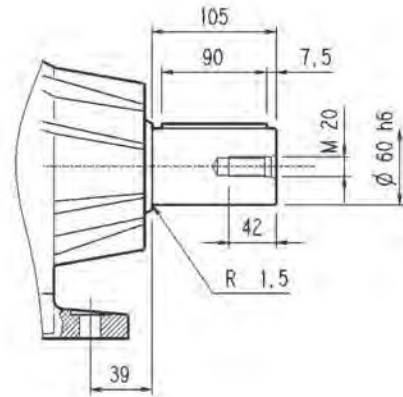
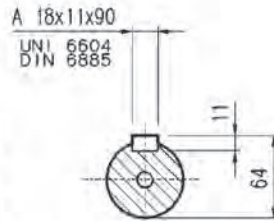
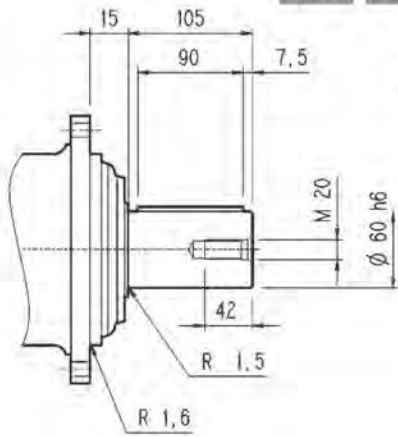
305 R

3/V 05 L3

3/A 05 L2

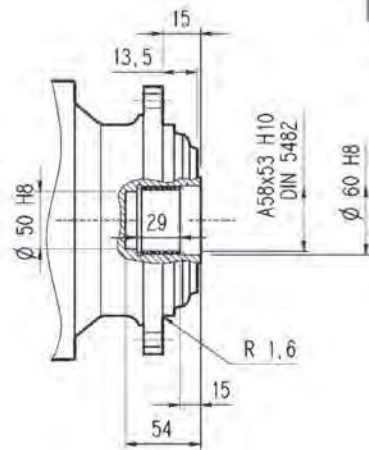
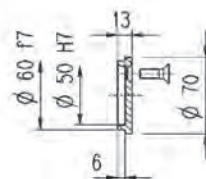
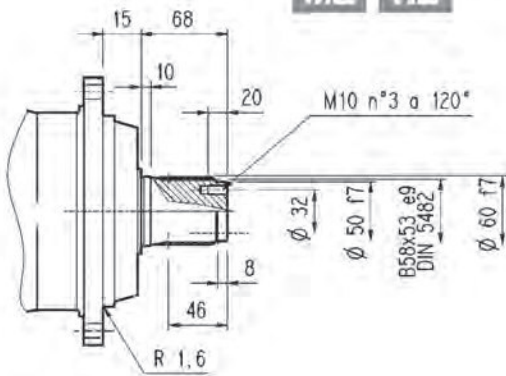
MC HC

PC



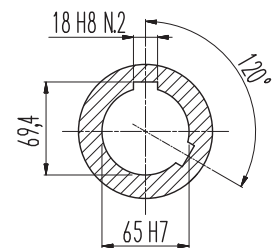
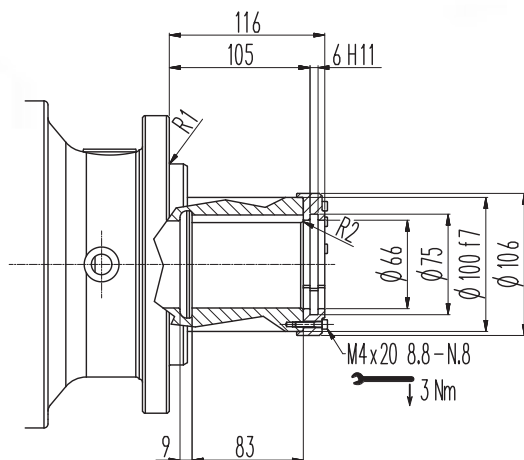
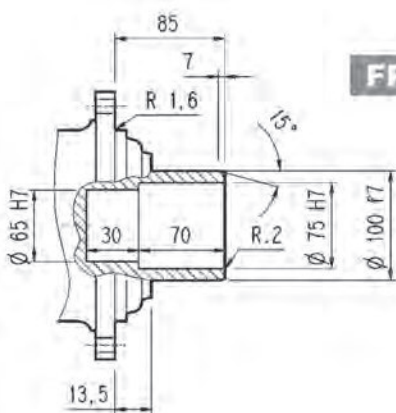
MZ HZ

FZ



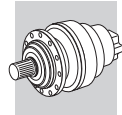
FP

FDK



FP

$M_{2max} = 7500 \text{ Nm}$



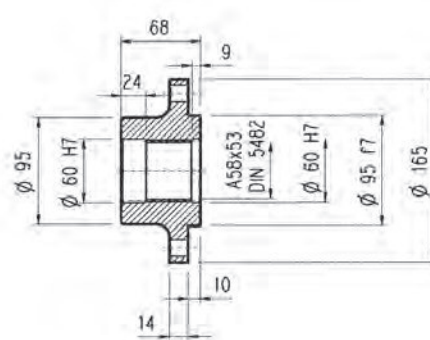
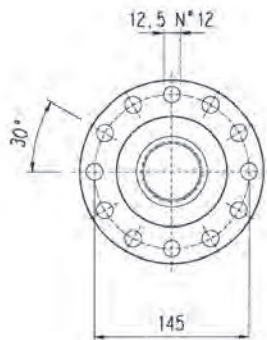
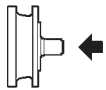
305 L

305 R

3/V 05 L3

3/A 05 L2

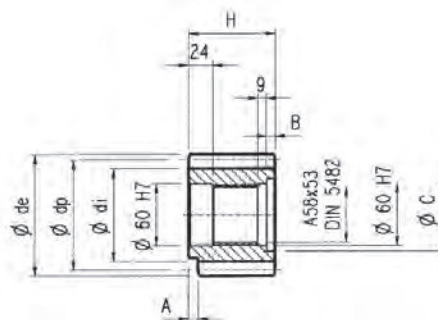
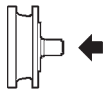
Flansch



W0A

Material: Stahl C40

Ritzel

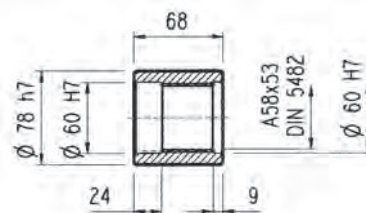
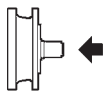


P...

$\alpha = 20^\circ$

| | m | z | x | dp | di | de | H | A | B | C | Material |
|------|----|----|-------|-----|------|-------|----|----|----|----|--|
| PCL1 | 5 | 19 | — | 95 | 82 | 104 | 77 | 12 | 9 | 72 | Vergüteter Stahl 39NiCrMo3 |
| PCL2 | 5 | 19 | — | 95 | 82 | 104 | 68 | — | — | — | Vergüteter Stahl 39NiCrMo3 |
| PCM | 5 | 20 | — | 100 | 87.5 | 110 | 68 | 18 | — | — | Einsatzstahl 18NiCrMo5 Einsatzgehärtet |
| PCP | 5 | 22 | — | 110 | 97.5 | 120 | 68 | 18 | — | — | Einsatzstahl 18NiCrMo5 Einsatzgehärtet |
| PDE | 6 | 14 | 0.500 | 84 | 75 | 99.6 | 68 | — | — | — | Vergüteter Stahl 39NiCrMo3 |
| PDI | 6 | 18 | 0.500 | 108 | 99 | 123.6 | 68 | — | — | — | Vergüteter Stahl 39NiCrMo3 |
| PDM | 6 | 20 | 0.833 | 120 | 115 | 140 | 68 | — | — | — | Vergüteter Stahl 39NiCrMo3 |
| PFD | 8 | 13 | 0.675 | 104 | 95 | 127.6 | 68 | — | — | — | Einsatzstahl 18NiCrMo5 Einsatzgehärtet |
| PFE1 | 8 | 14 | — | 112 | 92 | 126 | 68 | — | — | — | Einsatzstahl 18NiCrMo5 Einsatzgehärtet |
| PFE2 | 8 | 14 | — | 112 | 92 | 126 | 80 | — | 12 | 72 | Einsatzstahl 18NiCrMo5 Einsatzgehärtet |
| PFF | 8 | 15 | — | 120 | 100 | 136 | 68 | — | — | — | Vergüteter Stahl 39NiCrMo3 |
| PFP | 8 | 22 | — | 176 | 156 | 190 | 77 | 12 | 10 | 71 | Vergüteter Stahl 39NiCrMo3 |
| PHG | 10 | 16 | 0.500 | 160 | 145 | 188 | 75 | — | 7 | 72 | Vergüteter Stahl 39NiCrMo3 |

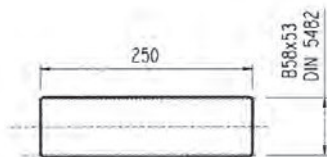
Naben



MOA

Material: Stahl 16CrNi4

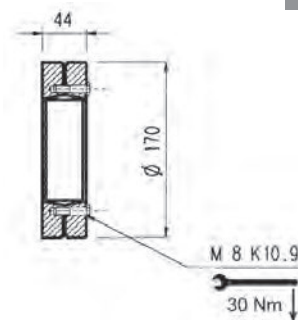
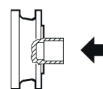
Vielkeilwellen



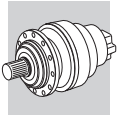
B0A

Material: Einsatzstahl 18NiCrMo5 UNI 5331 muss einsatzgehärtet werden 50-55 HRC

Schrumpfscheibe

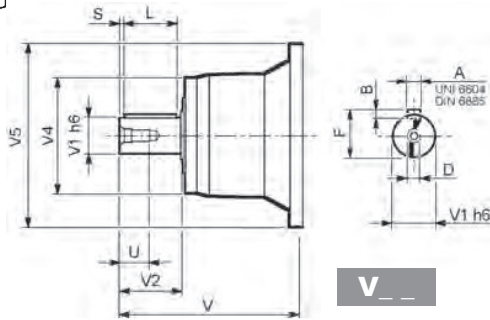


G0A

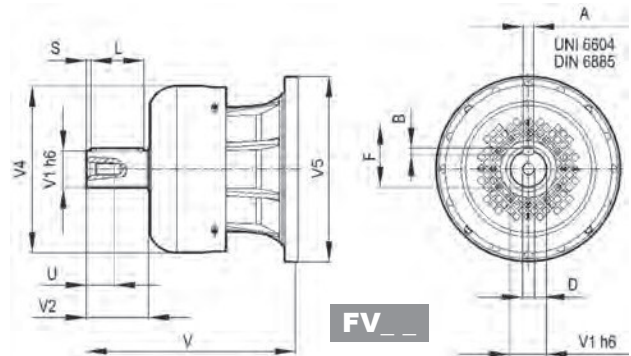


305 L

305 R



V__

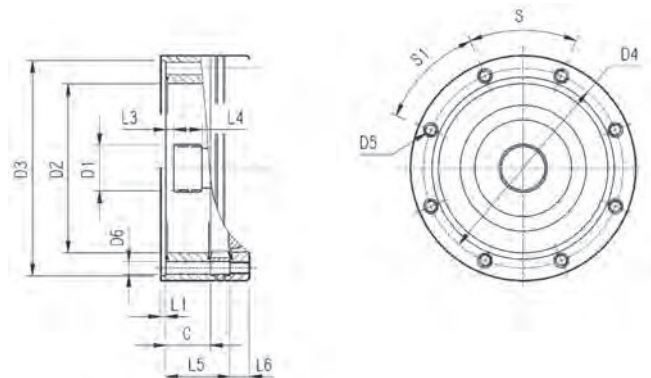


FV__

| | | V | V1 | V2 | V4 | V5 | A | B | F | L | S | D | U |
|--------------|-------|-------|----|----|-------|-----|----|---|------|----|---|-----|----|
| 305 L1 | V05B | 239 | 48 | 82 | 155 | 245 | 14 | 9 | 51.5 | 70 | 6 | M16 | 36 |
| | FV05B | 276 | 48 | 82 | 219.5 | 244 | 14 | 9 | 51.5 | 70 | 6 | M16 | 36 |
| 305 L2 | V01A | 137.5 | 24 | 36 | 120 | 186 | 8 | 7 | 27 | 30 | 3 | M8 | 19 |
| | V01B | 158 | 38 | 58 | 120 | 186 | 10 | 8 | 41 | 50 | 4 | M12 | 28 |
| 305 L3 | V01A | 137.5 | 24 | 36 | 120 | 186 | 8 | 7 | 27 | 30 | 3 | M8 | 19 |
| | V01B | 158 | 38 | 58 | 120 | 186 | 10 | 8 | 41 | 50 | 4 | M12 | 28 |
| 305 L4 | V01A | 137.5 | 24 | 36 | 120 | 186 | 8 | 7 | 27 | 30 | 3 | M8 | 19 |
| | V01B | 158 | 38 | 58 | 120 | 186 | 10 | 8 | 41 | 50 | 4 | M12 | 28 |
| 305 R2-R3-R4 | V01A | 137.5 | 24 | 36 | 120 | 186 | 8 | 7 | 27 | 30 | 3 | M8 | 19 |
| | V01B | 158 | 38 | 58 | 120 | 186 | 10 | 8 | 41 | 50 | 4 | M12 | 28 |

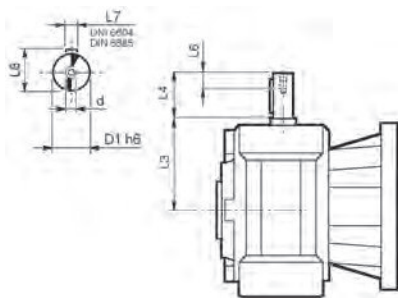
305 L

305 R



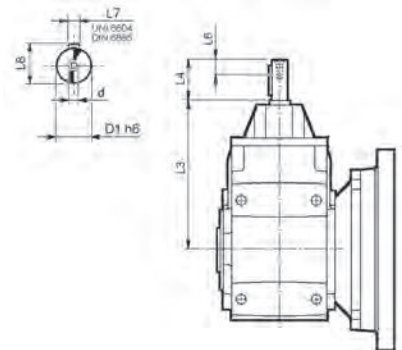
| | | C | D1 | D2 | D3 | D4 | D5 | D6 | L1 | L2 | L3 | L4 | L5 | L6 | S | S1 | Input |
|--------------|------|----|---------------|-----|--------|-----|---------|----|----|----|----|----|-----|----|-----|-----|-------|
| 305 L1 | V9AA | 37 | 40x36 DIN5482 | 140 | 178 H7 | 165 | M10 n°8 | 11 | 4 | — | 9 | 18 | — | 18 | 45° | 45° | A |
| 305 L2 | V9AA | 37 | 40x36 DIN5482 | 140 | 178 H7 | 165 | M10 n°8 | 11 | 4 | — | 9 | 18 | 65 | 18 | 45° | 45° | A |
| 305 L3 | V9AA | 37 | 40x36 DIN5482 | 140 | 178 H7 | 165 | M10 n°8 | 11 | 4 | — | 9 | 18 | 118 | 18 | 45° | 45° | A |
| 305 L4 | V9AA | 37 | 40x36 DIN5482 | 140 | 178 H7 | 165 | M10 n°8 | 11 | 4 | — | 9 | 18 | 171 | 18 | 45° | 45° | A |
| 305 R2-R3-R4 | V9AA | 37 | 40x36 DIN5482 | 140 | 178 H7 | 165 | M10 n°8 | 11 | 4 | — | 9 | 18 | 37 | 18 | 45° | 45° | A |

3/V 05 L3

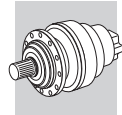


| | D1 h6 | L3 | L4 | L6 | L7 | L8 | d |
|--------------|-------|-----|----|----|----|------|----|
| 3/V 05 L3_HS | 19 | 128 | 40 | 16 | 6 | 21.5 | M6 |

3/A 05 L2



| | D1 h6 | L3 | L4 | L6 | L7 | L8 | d |
|--------------|-------|-----|----|----|----|----|----|
| 3/A 05 L2_HS | 24 | 302 | 50 | 19 | 8 | 27 | M8 |



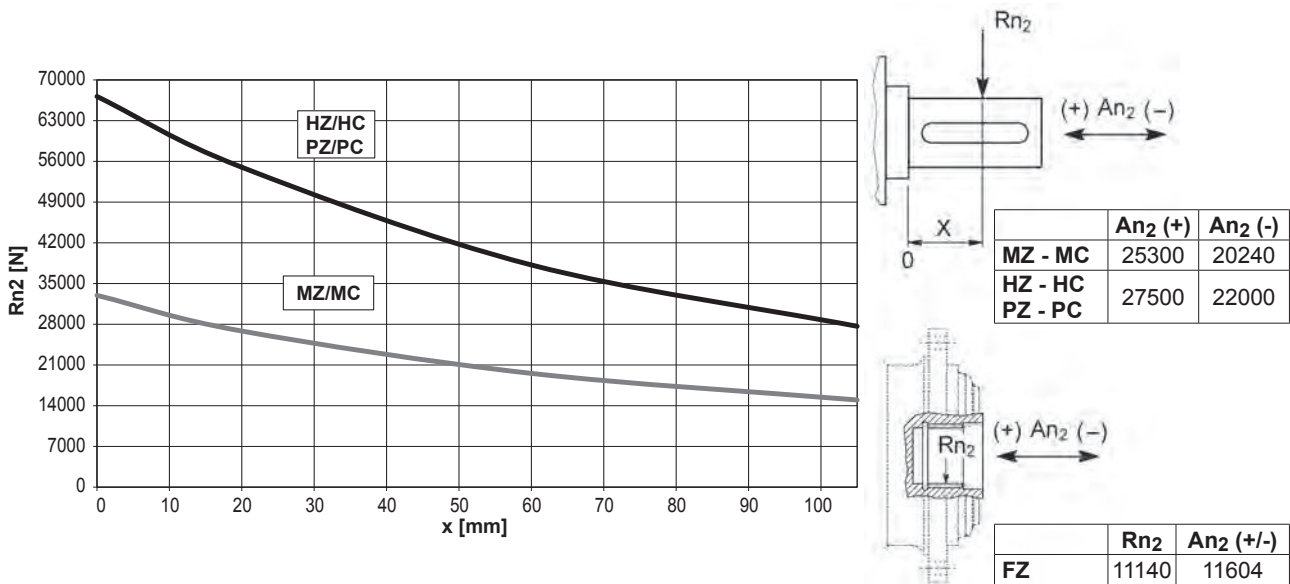
305 L

305 R

3/V 05 L3

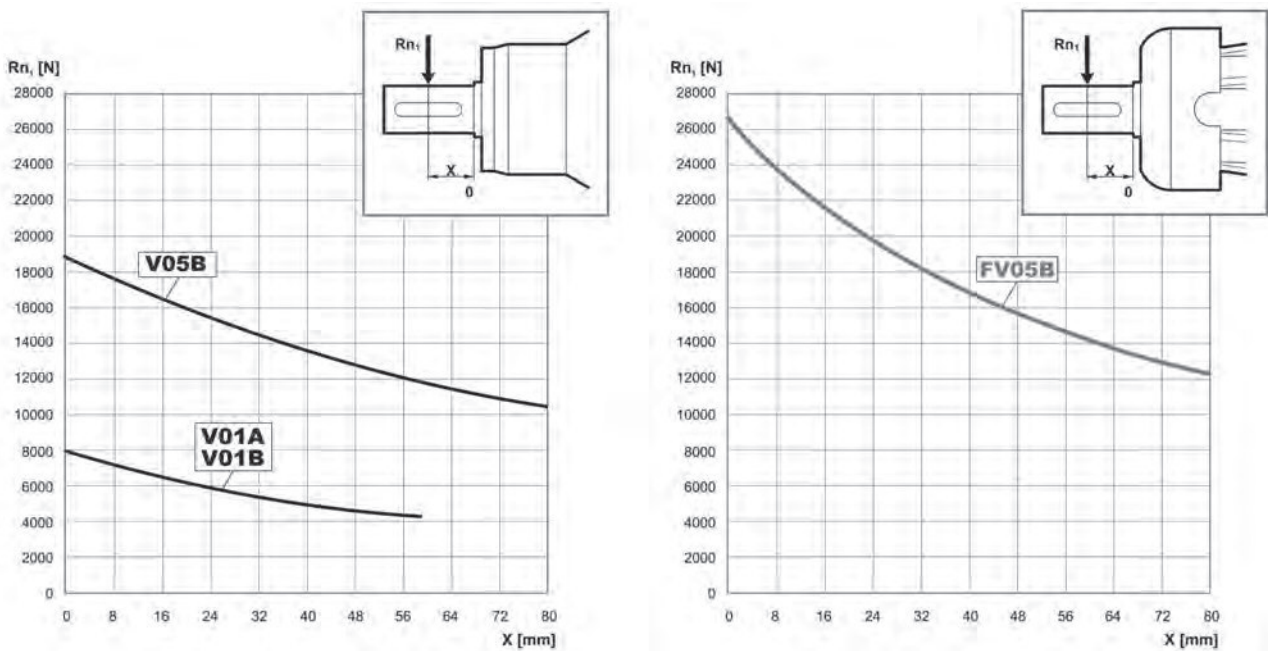
3/A 05 L2

An der Abtriebswelle zulässige Radial- und Axialkräfte für einen Wert von $F_{h2} : n_2 \cdot h = 100000$

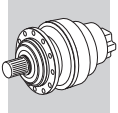


| Korrekturfaktor fh_2 für Wellenbelastungen | $F_{h2} = n_2 \cdot h$ | | | | | | |
|--|------------------------|-------|-------|-------|--------|--------|---------|
| | | 10000 | 25000 | 50000 | 100000 | 500000 | 1000000 |
| | fh_2 | FZ | 2.15 | 1.59 | 1.26 | 1.00 | 0.58 |
| | MZ - MC | 2.15 | 1.59 | 1.26 | 1.00 | 0.58 | 0.46 |
| | HZ - HC - PZ - PC | 1.48 | 1.48 | 1.23 | 1.00 | 0.62 | 0.50 |

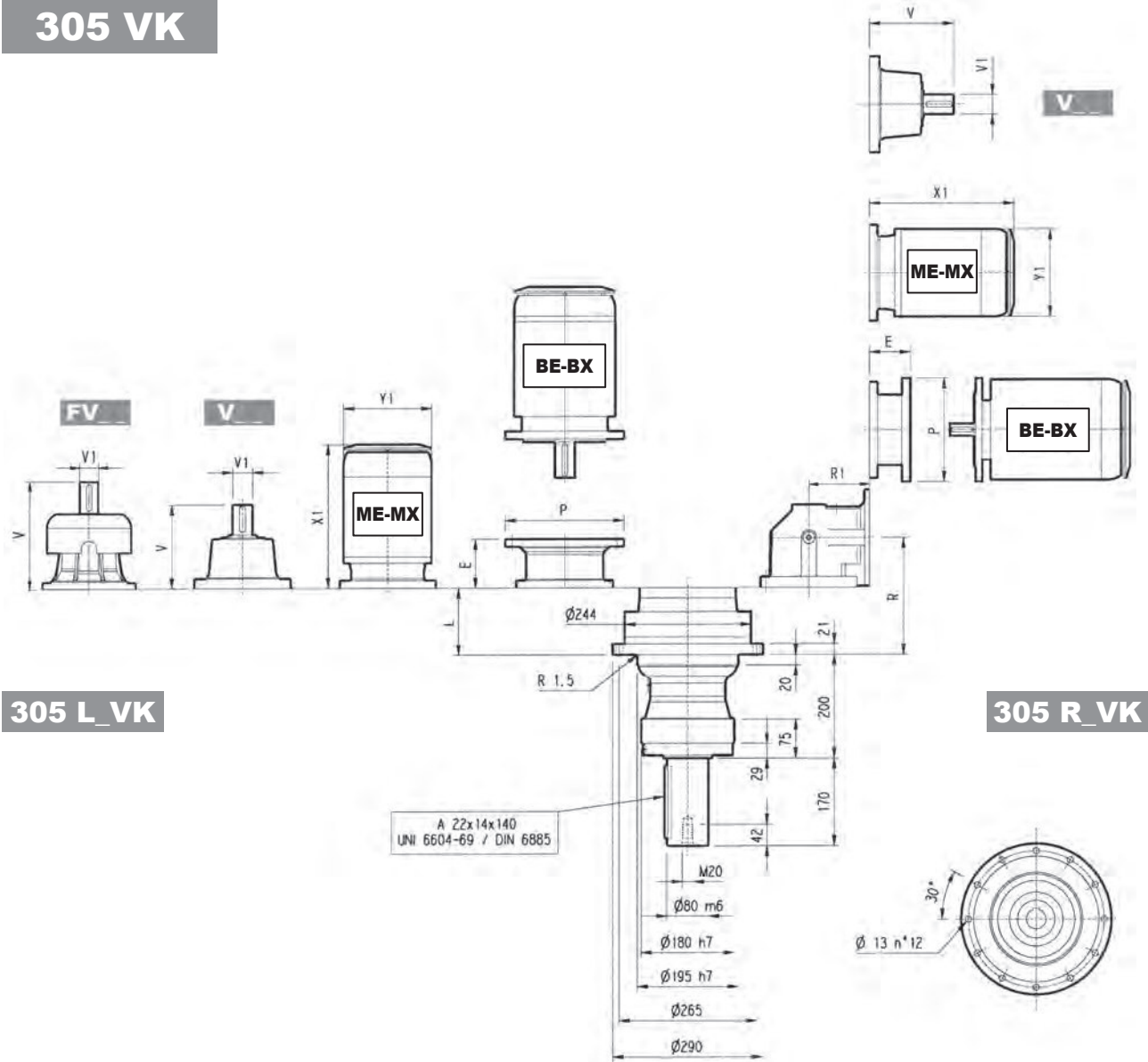
An der Antriebswelle zulässige Radiallasten für einen Wert von $F_{h1} : n_1 \cdot h = 250000$



| Korrekturfaktor fh_1 für Wellenbelastungen | $F_{h1} = n_1 \cdot h$ | | | | | | |
|--|------------------------|--------|--------|---------|---------|---------|----------|
| | | 250000 | 500000 | 1000000 | 2000000 | 5000000 | 10000000 |
| fh_1 | | 1 | 0.79 | 0.63 | 0.50 | 0.37 | 0.29 |



305 VK



305 L_VK

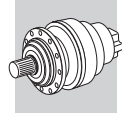
305 R_VK

| | L | Kg | V | | | V | | | V | | | P71 | | P80 | | P90 | | P100 | | P112 | | P132 | | P160 | | P180 | | P200 | | |
|--------|-----|----|-------|----|----|-----|----|----|-----|----|----|-----|---|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|-----|
| | | | V | V1 | Kg | V | V1 | Kg | V | V1 | Kg | E | P | E | P | E | P | E | P | E | P | E | P | E | P | E | P | E | P | |
| 305 L1 | 69 | 70 | 239 | 48 | 15 | — | — | — | 276 | 48 | 17 | — | — | — | — | — | — | — | — | — | — | — | 114 | 300 | 144 | 350 | 144 | 350 | 174 | 400 |
| 305 L2 | 134 | 77 | 137.5 | 24 | 6 | 158 | 38 | 7 | — | — | — | — | — | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 | 144 | 350 | — | — | — |
| 305 L3 | 187 | 81 | 137.5 | 24 | 6 | 158 | 38 | 7 | — | — | — | — | — | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 | 144 | 350 | — | — | — |
| 305 L4 | 240 | 85 | 137.5 | 24 | 6 | 158 | 38 | 7 | — | — | — | — | — | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 | 144 | 350 | — | — | — |

| | S1 + M1 | | | S2 + ME2S/MX2S | | | S3 + ME3S/MX3S | | | S3 + ME3L/MX3L | | | S4 + ME4/MX4 | | | S5 + ME5S/MX5S | | | S5 + ME5L/MX5L | | | | |
|--------|---------|-----|-----|----------------|----|-----|----------------|----|-----|----------------|----|-----|--------------|----|-----|----------------|-----|-----|----------------|-----|-----|---|-----|
| | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | | |
| 305 L1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 460 | — | 258 | 552 | — | 310 | 596 | — | 310 |
| 305 L2 | — | — | — | 324 | — | 156 | 357 | — | 195 | 401 | — | 195 | 460 | — | 258 | — | — | — | — | — | — | — | — |
| 305 L3 | 253 | 314 | 138 | 324 | — | 156 | 357 | — | 195 | 401 | — | 195 | 460 | — | 258 | — | — | — | — | — | — | — | — |
| 305 L4 | 253 | 314 | 138 | 324 | — | 156 | 357 | — | 195 | 401 | — | 195 | 460 | — | 258 | — | — | — | — | — | — | — | — |

| | R | R1 | Kg | V | | | V | | | P71 | | P80 | | P90 | | P100 | | P112 | | P132 | |
|--------|-----|-----|----|-------|----|----|-----|----|----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|
| | | | | V | V1 | Kg | V | V1 | Kg | E | P | E | P | E | P | E | P | E | P | E | P |
| 305 R2 | 161 | 140 | 90 | 137.5 | 24 | 6 | 158 | 38 | 7 | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 |
| 305 R3 | 226 | 122 | 92 | 137.5 | 24 | 6 | 158 | 38 | 7 | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 |
| 305 R4 | 279 | 122 | 95 | 137.5 | 24 | 6 | 158 | 38 | 7 | 65 | 160 | 84 | 200 | 84 | 200 | 94 | 250 | 94 | 250 | 114 | 300 |

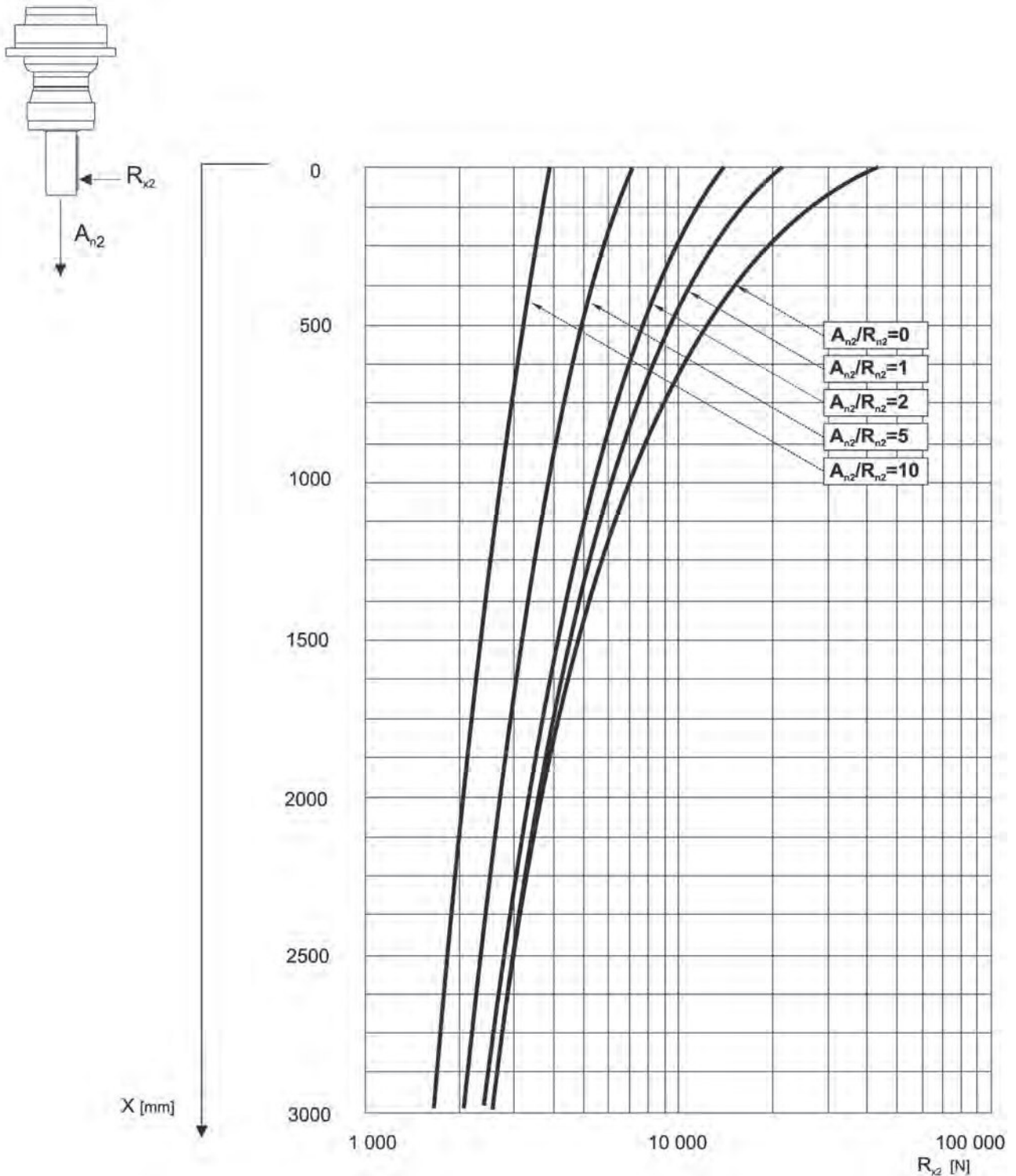
| | S1 + M1 | | | S2 + ME2S/MX2S | | | S3 + ME3S/MX3S | | | S3 + ME3L/MX3L | | | S4 + ME4/MX4 | | |
|--------|---------|-----|-----|----------------|----|-----|----------------|----|-----|----------------|----|-----|--------------|----|-----|
| | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 | X1 | X2 | Y1 |
| 305 R2 | — | — | — | 372 | — | 156 | 405 | — | 195 | 449 | — | 195 | 508 | — | 258 |
| 305 R3 | 253 | 314 | 138 | 372 | — | 156 | 405 | — | 195 | 449 | — | 195 | 508 | — | 258 |
| 305 R4 | 253 | 314 | 138 | 372 | — | 156 | 405 | — | 195 | 449 | — | 195 | 508 | — | 258 |



305 VK

Das nachstehende Diagramm ermöglicht das Berechnen der zulässigen, auf die Welle des Getriebes einwirkende externe Radialkraft, die sich auf die Distanz x von der Wellenschulter bezieht.



Die Kurven beziehen sich auf den Wert, der sich aus dem Verhältnis zwischen der Axialkraft A_{n2} und der Radialkraft R_{n2} für $n_2 = 10 \text{ min}^{-1}$ und einer Dauer von 10000 Std. ergibt.

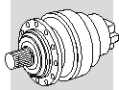


305 L

290

5800 Nm

|  | i | M_{n2} [Nm] | | | | | | P_1 | P_t | n_1 | n_{1max} | M_b |  | M_{2max} |
|--|------|---------------|---------------|---------------|---------------|---------------|---------------|-------|-------|-------|------------|-------|---|------------|
| | | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | | | | | | | |
| L1 | 3.60 | 4700 | 4490 | 4490 | 4490 | 4480 | 3640 | 60 | 13 | 1800 | 3800 | 1000 | 5K | 8800 |
| | 4.25 | 5800 | 5500 | 5480 | 5300 | 4410 | 3580 | 60 | 13 | 1800 | 3800 | 1000 | 5K | 8800 |
| | 5.33 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 60 | 13 | 1800 | 3800 | 1000 | 5K | 8800 |
| | 6.20 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 60 | 13 | 1800 | 3800 | 800 | 5G | 8800 |
| | 7.50 | 3800 | 3300 | 3100 | 3100 | 3000 | 2790 | 60 | 13 | 1800 | 3800 | 630 | 5E | 8800 |
| L2 | 12.5 | 4700 | 4490 | 4490 | 4490 | 3800 | 3090 | 30 | 9 | 2000 | 4000 | 400 | 4K | 8800 |
| | 15.3 | 4700 | 4490 | 4490 | 4490 | 3750 | 3040 | 30 | 9 | 2000 | 4000 | 330 | 4H | 8800 |
| | 18.1 | 5800 | 5500 | 5480 | 5300 | 4210 | 3420 | 30 | 9 | 2000 | 4000 | 400 | 4K | 8800 |
| | 20.8 | 4700 | 4450 | 4430 | 4430 | 3630 | 2950 | 30 | 9 | 2000 | 4000 | 260 | 4F | 8800 |





305 L



290

5800 Nm

|  | i | M _{n2} [Nm] | | | | | | P ₁ | P _t | n ₁ | n _{1max} | M _b |  | M _{2max} |
|---|------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|----------------|----------------|-------------------|----------------|---|-------------------|
| | | n ₂ ·h | n ₂ ·h | n ₂ ·h | n ₂ ·h | n ₂ ·h | n ₂ ·h | | | | | | | |
| | 1: | 10000 | 25000 | 50000 | 100000 | 500000 | 1000000 | | | | | | | |
| L2 | 22.7 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 30 | 9 | 2000 | 4000 | 330 | 4H | 8800 |
| | 24.5 | 5530 | 5400 | 5300 | 5230 | 4070 | 3310 | 30 | 9 | 2000 | 4000 | 330 | 4H | 8800 |
| | 26.4 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 30 | 9 | 2000 | 4000 | 260 | 4F | 8800 |
| | 30.8 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 30 | 9 | 2000 | 4000 | 260 | 4F | 8800 |
| | 35.8 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 22.4 | 9 | 2000 | 4000 | 160 | 4D | 8800 |
| | 38.4 | 5600 | 4900 | 4470 | 4400 | 4280 | 3490 | 25.5 | 9 | 2000 | 4000 | 160 | 4D | 8800 |
| | 44.6 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 18.3 | 9 | 2000 | 4000 | 160 | 4D | 8800 |
| | 55.8 | 4430 | 4000 | 3600 | 3600 | 3500 | 3460 | 15.2 | 9 | 2000 | 4000 | 160 | 4D | 8800 |
| L3 | 53.4 | 4700 | 4490 | 4490 | 4490 | 3750 | 3040 | 18.8 | 7.5 | 2000 | 4000 | 100 | 4B | 8800 |
| | 63.1 | 5800 | 5480 | 5480 | 5300 | 4270 | 3470 | 19.4 | 7.5 | 2000 | 4000 | 160 | 4D | 8800 |
| | 72.3 | 4700 | 4490 | 4490 | 4490 | 3800 | 3090 | 14.1 | 7.5 | 2000 | 4000 | 100 | 4B | 8800 |
| | 77.2 | 5800 | 5500 | 5480 | 5300 | 4210 | 3420 | 16.3 | 7.5 | 2000 | 4000 | 100 | 4B | 8800 |
| | 90.2 | 4700 | 4490 | 4490 | 4490 | 3800 | 3090 | 11.4 | 7.5 | 2000 | 4000 | 100 | 4B | 8800 |
| | 105 | 5800 | 5500 | 5480 | 5300 | 4210 | 3420 | 12.3 | 7.5 | 2000 | 4000 | 100 | 4B | 8800 |
| | 113 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 8.7 | 7.5 | 2000 | 4000 | 100 | 4B | 8800 |
| | 124 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 8.0 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| | 141 | 5530 | 5350 | 5300 | 5230 | 4070 | 3310 | 8.9 | 7.5 | 2000 | 4000 | 100 | 4B | 8800 |
| | 152 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 6.7 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| | 164 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 7.7 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| | 178 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 7.2 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| | 190 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 5.5 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| | 220 | 4750 | 4750 | 4750 | 4750 | 3660 | 3210 | 4.9 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| | 258 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 4.1 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| | 276 | 5600 | 4900 | 4470 | 4400 | 4280 | 3490 | 4.6 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| | 321 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 3.3 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| | 389 | 3800 | 3300 | 3100 | 3100 | 3000 | 2790 | 2.2 | 7.5 | 2000 | 4000 | 50 | 4A | 8800 |
| 402 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 2.6 | 6 | 2000 | 4000 | 50 | 4A | 8800 | |
| L4 | 413 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 3.2 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 446 | 5800 | 5500 | 5480 | 5300 | 4210 | 3420 | 3.1 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 492 | 5530 | 5350 | 5300 | 5230 | 4070 | 3310 | 2.6 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 556 | 5800 | 5500 | 5480 | 5300 | 4210 | 3420 | 2.5 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 649 | 4700 | 4490 | 4490 | 4490 | 3800 | 3090 | 1.7 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 718 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 1.5 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 816 | 5530 | 5350 | 5300 | 5230 | 4070 | 3310 | 1.6 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 896 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 1.2 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 1018 | 5530 | 5350 | 5300 | 5230 | 4070 | 3310 | 1.3 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 1098 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 0.99 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 1278 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 1.0 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 1370 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 0.79 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 1586 | 4750 | 4750 | 4750 | 4750 | 3660 | 3210 | 0.71 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 1854 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 0.59 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 1991 | 5600 | 4900 | 4470 | 4400 | 4280 | 3490 | 0.67 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| | 2243 | 3800 | 3300 | 3100 | 3100 | 3000 | 2790 | 0.40 | 6 | 2000 | 4000 | 50 | 4A | 8800 |
| 2799 | 3800 | 3300 | 3100 | 3100 | 3000 | 2790 | 0.32 | 6 | 2000 | 4000 | 50 | 4A | 8800 | |

C

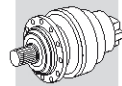
305 R



292

5600 Nm

| | i | M _{n2} [Nm] | | | | | | P ₁ | Pt | n ₁ | n _{1max} | M _b | | M _{2max} |
|----|------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|----|----------------|-------------------|----------------|----|-------------------|
| | | n ₂ ·h | n ₂ ·h | n ₂ ·h | n ₂ ·h | n ₂ ·h | n ₂ ·h | | | | | | | |
| R2 | 9.23 | 4650 | 4050 | 4000 | 3870 | 2390 | 1940 | 35 | 18 | 1800 | 3800 | 440 | 4L | 7700 |
| | 10.9 | 5300 | 4720 | 4720 | 4350 | 2680 | 2180 | 35 | 18 | 1800 | 3800 | 440 | 4L | 7700 |
| | 13.7 | 5600 | 5040 | 4470 | 4280 | 3150 | 2560 | 35 | 18 | 1800 | 3800 | 440 | 4L | 7700 |
| | 15.9 | 4690 | 4000 | 3600 | 3600 | 3500 | 2840 | 35 | 18 | 1800 | 3800 | 330 | 4H | 7700 |
| | 19.2 | 3800 | 3300 | 3100 | 3100 | 3000 | 2790 | 32 | 18 | 1800 | 3800 | 260 | 4F | 7700 |
| R3 | 25.7 | 4680 | 4490 | 4490 | 4490 | 3800 | 3090 | 15.0 | 14 | 2000 | 4000 | 260 | 4F | 8800 |
| | 31.5 | 4700 | 4490 | 4490 | 4490 | 3750 | 3040 | 15.0 | 14 | 2000 | 4000 | 260 | 4F | 8800 |
| | 37.1 | 5800 | 5500 | 5480 | 5300 | 4210 | 3420 | 15.0 | 14 | 2000 | 4000 | 260 | 4F | 8800 |
| | 42.6 | 4700 | 4450 | 4430 | 4430 | 3630 | 2950 | 15.0 | 14 | 2000 | 4000 | 160 | 4D | 8800 |
| | 46.6 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 15.0 | 14 | 2000 | 4000 | 160 | 4D | 8800 |
| | 50.3 | 5530 | 5350 | 5300 | 5230 | 4070 | 3310 | 15.0 | 14 | 2000 | 4000 | 160 | 4D | 8800 |
| | 54.2 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 15.0 | 14 | 2000 | 4000 | 100 | 4B | 8800 |
| | 63.1 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 15.0 | 14 | 2000 | 4000 | 100 | 4B | 8800 |
| | 73.3 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 12.3 | 14 | 2000 | 4000 | 100 | 4B | 8800 |
| | 78.7 | 5600 | 4900 | 4470 | 4400 | 4280 | 3490 | 14.3 | 14 | 2000 | 4000 | 100 | 4B | 8800 |
| | 91.5 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 10.2 | 14 | 2000 | 4000 | 100 | 4B | 8800 |
| | 114 | 4430 | 4000 | 3600 | 3600 | 3500 | 3460 | 8.6 | 14 | 2000 | 4000 | 50 | 4A | 8800 |
| R4 | 129 | 5800 | 5480 | 5480 | 5300 | 4270 | 3470 | 10.3 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 148 | 4700 | 4490 | 4490 | 4490 | 3800 | 3090 | 7.4 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 158 | 5800 | 5500 | 5480 | 5300 | 4210 | 3420 | 8.6 | 12 | 2000 | 4000 | 50 | 4A | 8800 |





305 R



292

5600 Nm

|  | i | M_{n2} [Nm] | | | | | | P_1 | P_t | n_1 | n_{1max} | M_b |  | M_{2max} |
|---|-----|---------------|---------------|---------------|---------------|---------------|---------------|-------|-------|-------|------------|-------|---|------------|
| | | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | $n_2 \cdot h$ | | | | | | | |
| | 1: | 10000 | 25000 | 50000 | 100000 | 500000 | 1000000 | | | | | | | |
| R4 | 185 | 4700 | 4490 | 4490 | 4490 | 3800 | 3090 | 6.0 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 214 | 5800 | 5500 | 5480 | 5300 | 4210 | 3420 | 6.4 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 231 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 4.7 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 255 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 4.3 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 290 | 5530 | 5400 | 5300 | 5230 | 4070 | 3310 | 4.5 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 313 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 3.5 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 336 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 3.9 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 364 | 5600 | 5040 | 4470 | 4400 | 4280 | 3490 | 3.6 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 390 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 2.8 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 452 | 4750 | 4750 | 4750 | 4750 | 3660 | 3210 | 2.5 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 528 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 2.1 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 567 | 5600 | 4900 | 4470 | 4400 | 4280 | 3490 | 2.3 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 659 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 1.7 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 797 | 3800 | 3300 | 3100 | 3100 | 3000 | 2790 | 1.1 | 12 | 2000 | 4000 | 50 | 4A | 8800 |
| | 824 | 4690 | 4000 | 3600 | 3600 | 3550 | 3460 | 1.3 | 12 | 2000 | 4000 | 50 | 4A | 8800 |