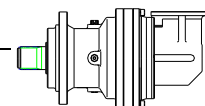


NB310L

M2'=25000N.m

| | I 1: | Mn ₂ (N.m) | | | | | | P ₁ (KW) | P _t (KW) (ta=20°C) (n ₁ =1500) | n ₁ (min ⁻¹) | n _{1max} (min ⁻¹) | M _b (N.m) | Brake type 制动器 |
|------|---------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------|--|--|---|-------------------------|----------------------|
| | | n ₂ .h 10000 | n ₂ .h 25000 | n ₂ .h 50000 | n ₂ .h 100000 | n ₂ .h 500000 | n ₂ .h 1000000 | | | | | | |
| L1 | 4.2 | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 150 | 35 | 1000 | 1500 | | |
| | 5.0 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 150 | 35 | 1000 | 1500 | | |
| | 6.8 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 150 | 35 | 1000 | 1500 | | |
| L2 | 15.5 | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 100 | 22 | 1500 | 2500 | 2100 | 6G |
| | 17.6 | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 90 | 22 | 1500 | 2500 | 2100 | 6G |
| | 21.0 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 80 | 22 | 1500 | 2500 | 1500 | 6E |
| | 24.7 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 75 | 22 | 1500 | 2500 | 1500 | 6E |
| | 28.9 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 70 | 22 | 1500 | 2500 | 1100 | 6C |
| | 33.7 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 65 | 22 | 1500 | 2500 | 1100 | 6C |
| | 39.4 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 55 | 22 | 1500 | 2500 | 850 | 6B |
| | 48.3 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 50 | 22 | 1500 | 2500 | 850 | 6B |
| | L3 | 56.7 | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 50 | 18 | 1 750 | 3 500 | 630 |
| 73.9 | | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 42 | 18 | 1 750 | 3 500 | 630 | 5E |
| 88.0 | | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 37 | 18 | 1 750 | 3 500 | 500 | 5C |
| 105 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 32 | 18 | 1 750 | 3 500 | 400 | 5B |
| 124 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 28 | 18 | 1 750 | 3 500 | 400 | 5B |
| 145 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 24 | 18 | 1 750 | 3 500 | 400 | 5B |
| 161 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 22 | 18 | 1 750 | 3 500 | 400 | 5B |
| 197 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 19 | 18 | 1 750 | 3 500 | 400 | 5B |
| 220 | | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 14 | 18 | 1 750 | 3 500 | 400 | 5B |
| 269 | | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 11.5 | 18 | 1 750 | 3 500 | 400 | 5B |
| 330 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 9.5 | 18 | 1 750 | 3 500 | 400 | 5B | |
| L4 | 329 | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 12 | 11 | 1 750 | 3 500 | 100 | 4B |
| | 426 | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 9.5 | 11 | 1 750 | 3 500 | 100 | 4B |
| | 508 | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 8.5 | 11 | 1 750 | 3 500 | 100 | 4B |
| | 604 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 6.5 | 11 | 1 750 | 3 500 | 100 | 4B |
| | 713 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 5.6 | 11 | 1 750 | 3 500 | 50 | 4A |
| | 834 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 4.8 | 11 | 1 750 | 3 500 | 50 | 4A |
| | 930 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 4.4 | 11 | 1 750 | 3 500 | 50 | 4A |
| | 1160 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 3.8 | 11 | 1 750 | 3 500 | 50 | 4A |
| | 1268 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 3 | 11 | 1 750 | 3 500 | 50 | 4A |
| | 1420 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 3.3 | 11 | 1 750 | 3 500 | 50 | 4A |
| | 1582 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 2.5 | 11 | 1 750 | 3 500 | 50 | 4A |
| 1937 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 2.2 | 11 | 1 750 | 3 500 | 50 | 4A | |
| 2373 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 1.8 | 11 | 1 750 | 3 500 | 50 | 4A | |

M_{2max}=1.2×Mn2(n2×h=10 000)



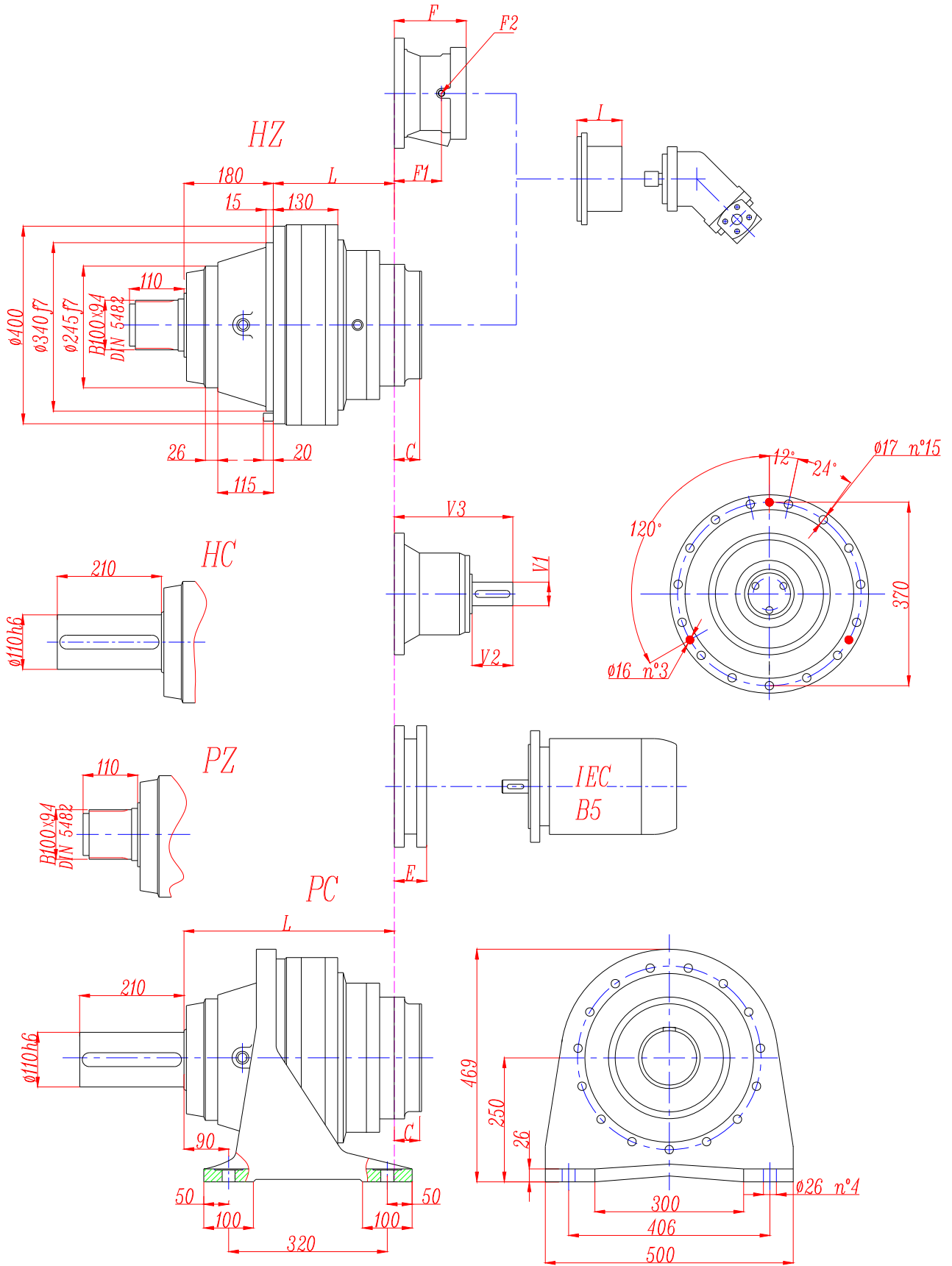
NB310R

M2'=25000N.m

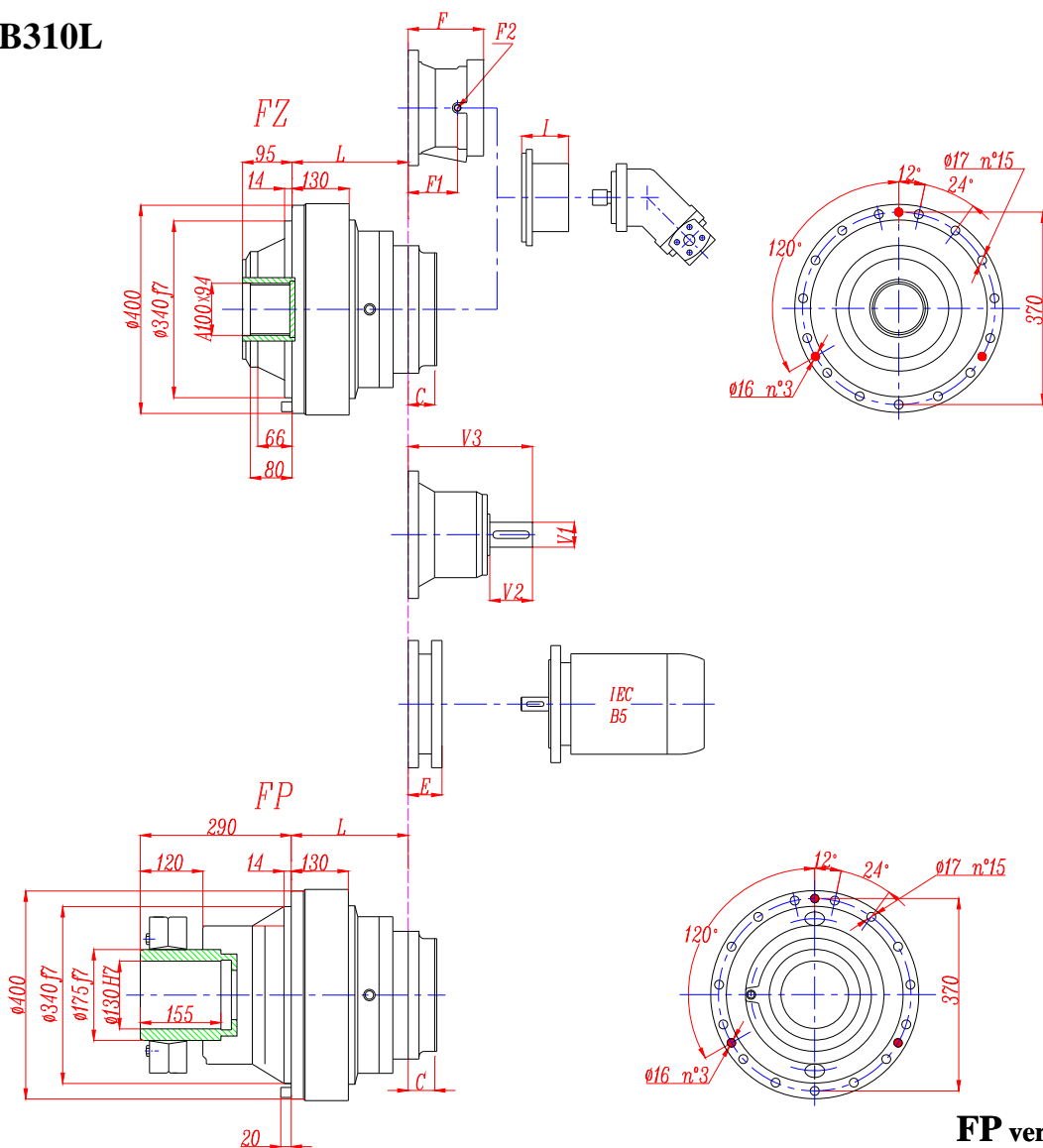
| | I 1: | Mn ₂ (N.m) | | | | | | P ₁ (KW) | P _t (KW) (ta=20°C) (n ₁ =1500) | n ₁ (min ⁻¹) | n _{1max} (min ⁻¹) | M _b (N.m) | Brake type 制动器 | |
|-----|---------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|-----------------------------|------------------------|--|--|---|-------------------------|----------------------|----|
| | | n _{2.h} 10000 | n _{2.h} 25000 | n _{2.h} 50000 | n _{2.h} 100000 | n _{2.h} 500000 | n _{2.h} 1000000 | | | | | | | |
| R2 | 12.3 | 21000 | 20000 | 19000 | 16000 | 10000 | 8000 | 130 | 55 | 1 500 | 2 500 | 2600 | 6K | |
| | 14.6 | 25000 | 21500 | 20000 | 17500 | 11000 | 8500 | 130 | 55 | 1 500 | 2 500 | 2100 | 6G | |
| | 20.0 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 130 | 55 | 1 500 | 2 500 | 1500 | 6E | |
| R3 | 39.6 | 21000 | 20000 | 19000 | 16000 | 10000 | 8000 | 45 | 20 | 1 750 | 3 500 | 440 | 4L | |
| | 45.1 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 45 | 20 | 1 750 | 3 500 | 440 | 4L | |
| | 53.7 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 41 | 20 | 1 750 | 3 500 | 440 | 4L | |
| | 63.3 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 37 | 20 | 1 750 | 3 500 | 440 | 4L | |
| | 74.1 | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 33 | 20 | 1 750 | 3 500 | 440 | 4L | |
| | 86.3 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 27 | 20 | 1 750 | 3 500 | 400 | 4K | |
| | 101 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 24 | 20 | 1 750 | 3 500 | 400 | 4K | |
| | 124 | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 20 | 20 | 1 750 | 3 500 | 330 | 4H | |
| | R4 | 145 | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 21 | 14 | 1 750 | 3 500 | 330 | 4H |
| | | 189 | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 17 | 14 | 1 750 | 3 500 | 330 | 4H |
| 226 | | 30000 | 30000 | 26000 | 21000 | 13000 | 11000 | 15 | 14 | 1 750 | 3 500 | 260 | 4F | |
| 268 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 13 | 14 | 1 750 | 3 500 | 160 | 4D | |
| 317 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 11.5 | 14 | 1 750 | 3 500 | 160 | 4D | |
| 371 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 10.2 | 14 | 1 750 | 3 500 | 100 | 4B | |
| 413 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 9.3 | 14 | 1 750 | 3 500 | 100 | 4B | |
| 505 | | 29000 | 25000 | 22000 | 20000 | 13000 | 11000 | 7.7 | 14 | 1 750 | 3 500 | 100 | 4B | |
| 563 | | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 6 | 14 | 1 750 | 3 500 | 100 | 4B | |
| 689 | | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 5 | 14 | 1 750 | 3 500 | 50 | 4A | |
| 845 | | 26000 | 21000 | 18000 | 17000 | 12000 | 10000 | 4.3 | 14 | 1 750 | 3 500 | 50 | 4A | |

M_{2max}=1.2×Mn₂(n₂×h=10 000)

NB310L



NB310L



FP version

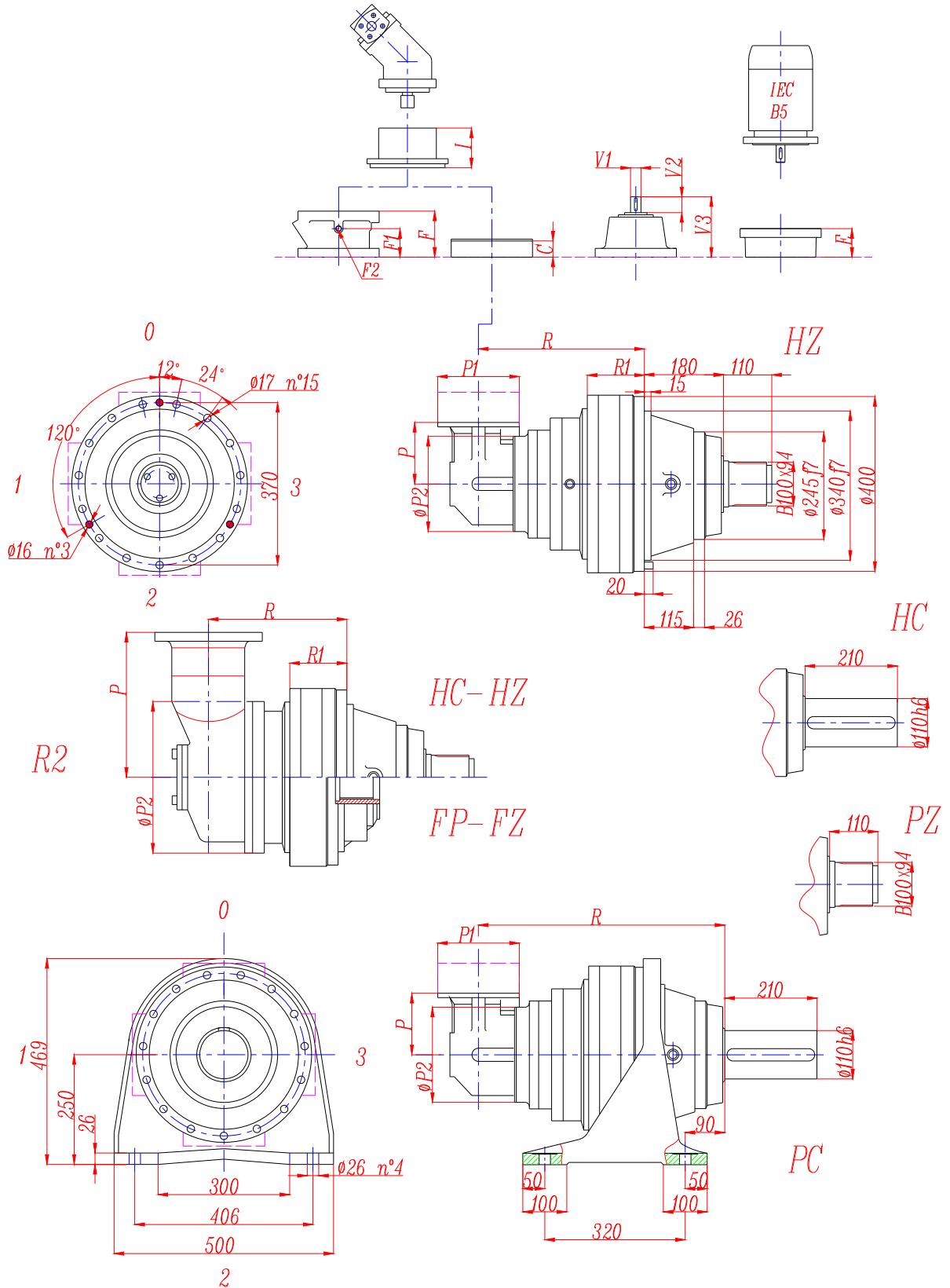
Max. transmissible

36000 N.m

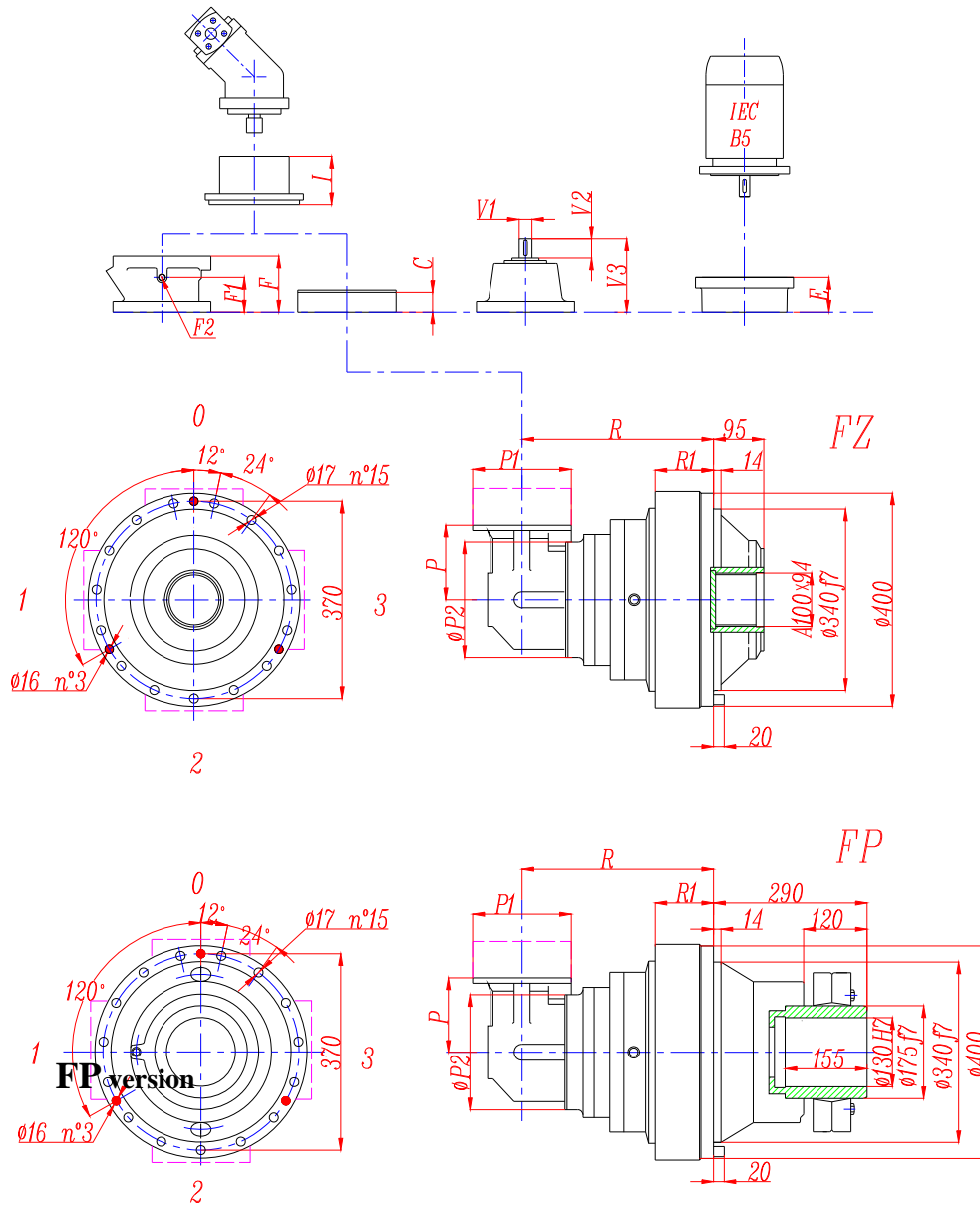
| | L | | | | Ref. weight (without input) (Kg) | | | | C | I | Brake | | | | |
|--------------|-------|-------|-----|-----|----------------------------------|-------|-----|-----|----|------------------------------|-------|-----|-------|------|-------------|
| | HZ HC | PC PZ | FZ | FP | HZ HC | PC PZ | FZ | FP | | | F | F1 | F2 | Type | Ref. Weight |
| 310L1 | 110 | 290 | 110 | 110 | 185 | 238 | 150 | 185 | 68 | According to hydraulic motor | | | | | |
| 310L2 | 226 | 406 | 226 | 226 | 218 | 271 | 183 | 218 | 45 | | 196 | 115 | 1/4 G | 6 | 75 Kg |
| 310L3 | 295 | 475 | 295 | 295 | 232 | 285 | 216 | 232 | 37 | | 142 | 88 | 1/4 G | 5 | 38 Kg |
| 310L4 | 348 | 528 | 348 | 348 | 240 | 293 | 224 | 240 | 37 | | 105 | 65 | 1/4 G | 4 | 18 Kg |

| | E (IEC motor input) | | | | | | | | | | | | |
|--------------|---------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| | IEC 71 | IEC 80 | IEC 90 | IEC 100 | IEC 112 | IEC 132 | IEC 160 | IEC 180 | IEC 200 | IEC 225 | IEC 250 | | |
| 310L1 | | | | | | | | | 186 | 215 | 215 | | |
| 310L2 | | | | | | | 153 | 153 | 163 | 192 | 192 | | |
| 310L3 | | | | | | 120 | 153 | 153 | 153 | 186 | | | |
| 310L4 | 77 | 97 | 97 | 107 | 107 | 120 | 153 | 153 | | | | | |

NB310R



NB310R

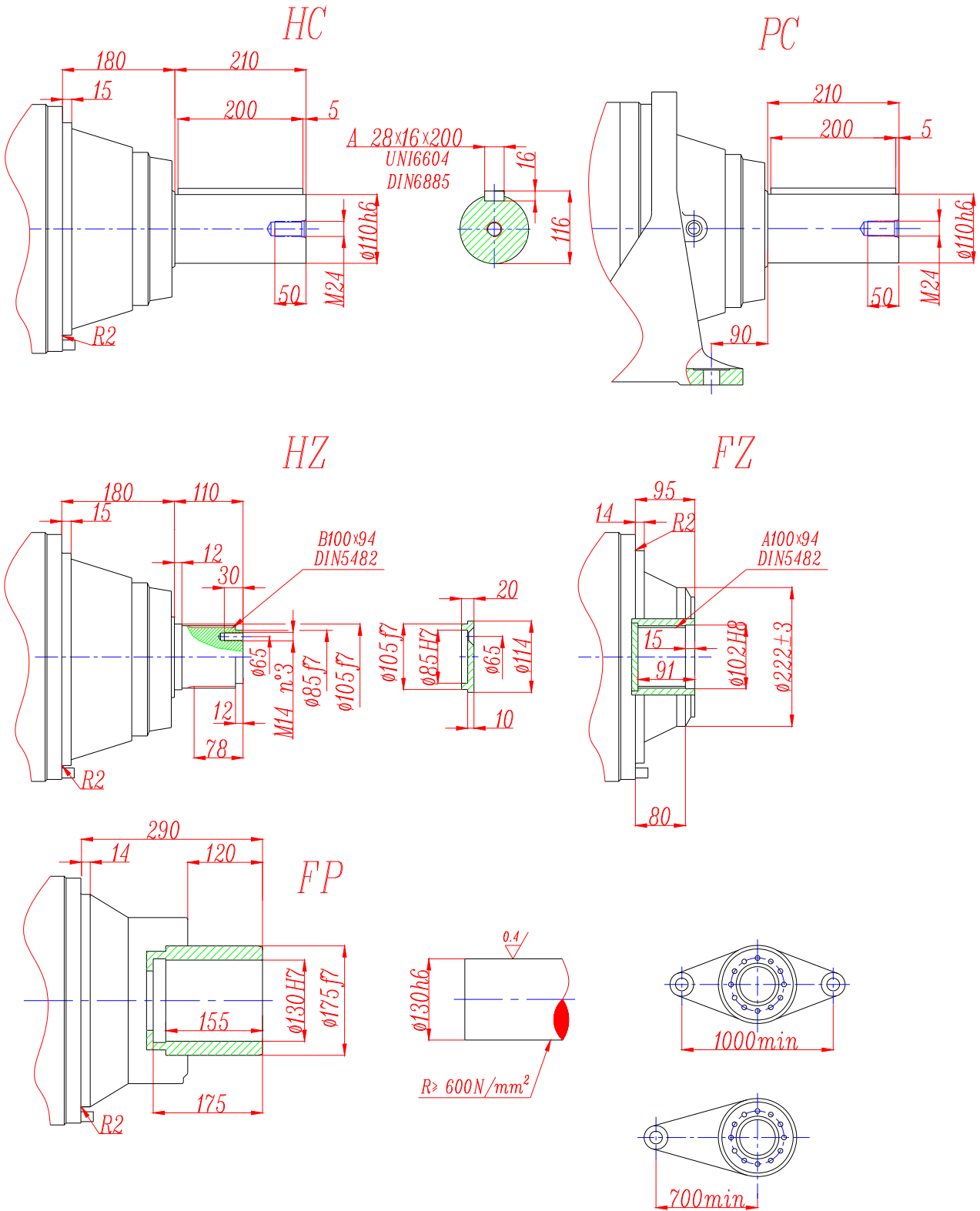


**Max. transmissible
36000 N.m**

| | R | | | | Ref. weight (without input) (Kg) | | | | C | P | I | Brake | | | | |
|--------------|----------|----------|-----|-----|--|----------|-----|-----|----|-----|------------------------------------|-------|-----|-------|------|----------------------|
| | HZ HC | PC PZ | FZ | FP | HZ HC | PC PZ | FZ | FP | | | | F | F1 | F2 | Type | Ref. Weight Kg |
| 310R2 | 315 | 495 | 218 | 295 | 320 | 336 | 288 | 320 | 45 | 345 | According to hydraulic motor | 196 | 115 | 1/4 G | 6 | 75 |
| 310R3 | 400 | 580 | 400 | 400 | 302 | 352 | 252 | 302 | 37 | 159 | | 142 | 88 | 1/4 G | 5 | 38 |
| 310R4 | 439 | 619 | 439 | 439 | 268 | 318 | 218 | 268 | 37 | 149 | | 105 | 65 | 1/4 G | 4 | 18 |

| | P1 | R1 | | | | E (IEC motor input) | | | | | | | | | | |
|--------------|-----|-----|-----|-----|-----|---------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|--|
| | | HZ | HC | FZ | FP | IEC 71 | IEC 80 | IEC 90 | IEC 100 | IEC 112 | IEC 132 | IEC 160 | IEC 180 | IEC 200 | IEC 225 | |
| 310R2 | 292 | 130 | 130 | 130 | 130 | | | | | | | 153 | 153 | 163 | 192 | |
| 310R3 | 186 | 130 | 130 | 130 | 130 | | | | | | 120 | 153 | 153 | 153 | 186 | |
| 310R4 | 186 | 130 | 130 | 130 | 130 | 77 | 97 | 97 | 107 | 107 | 120 | 153 | 153 | | | |

NB310L - NB310R



FP version

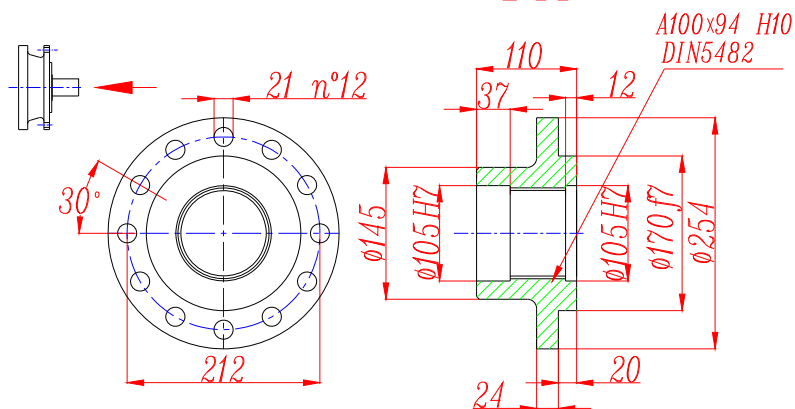
Max. transmissible

36000 N.m

NB310L - NB310R

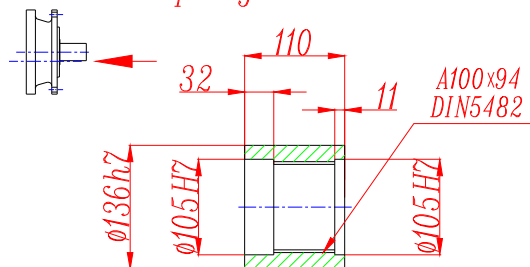
Drive intake flange

DIF



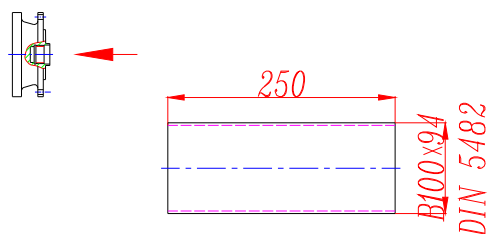
Sleeve couplings

SC



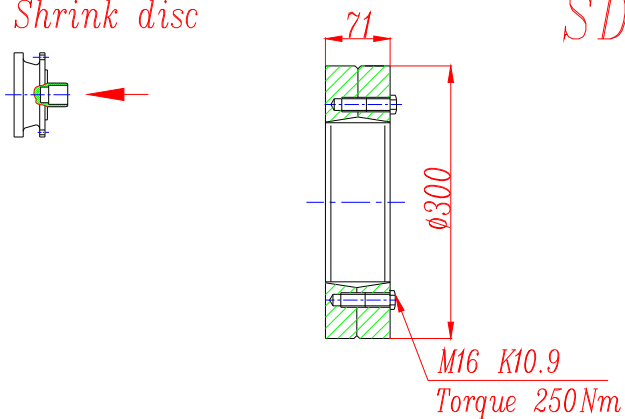
Splined bars

SB

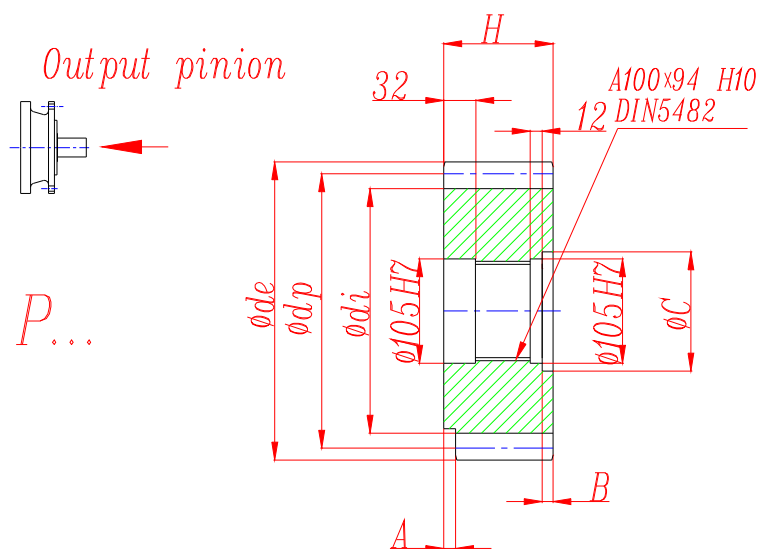


Shrink disc

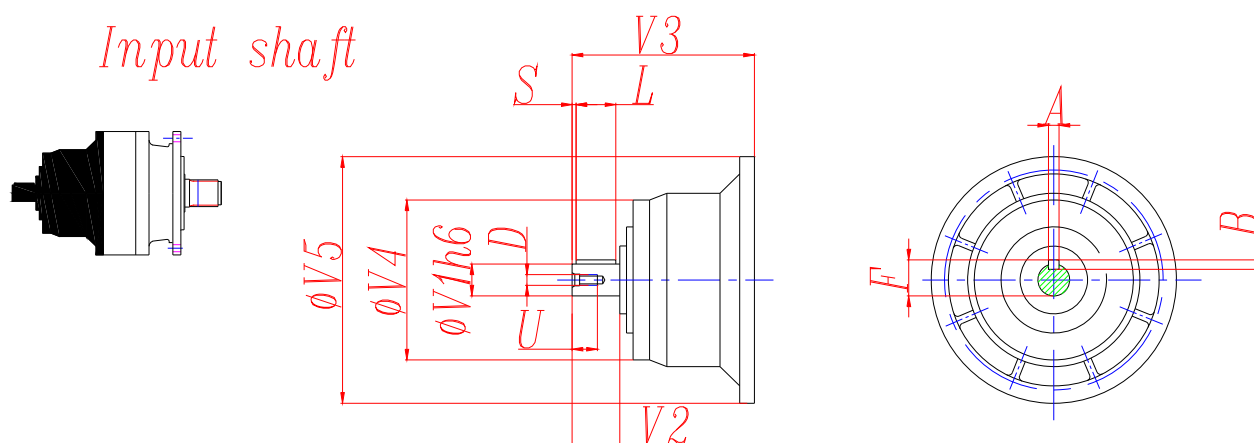
SD



NB310L - NB310R



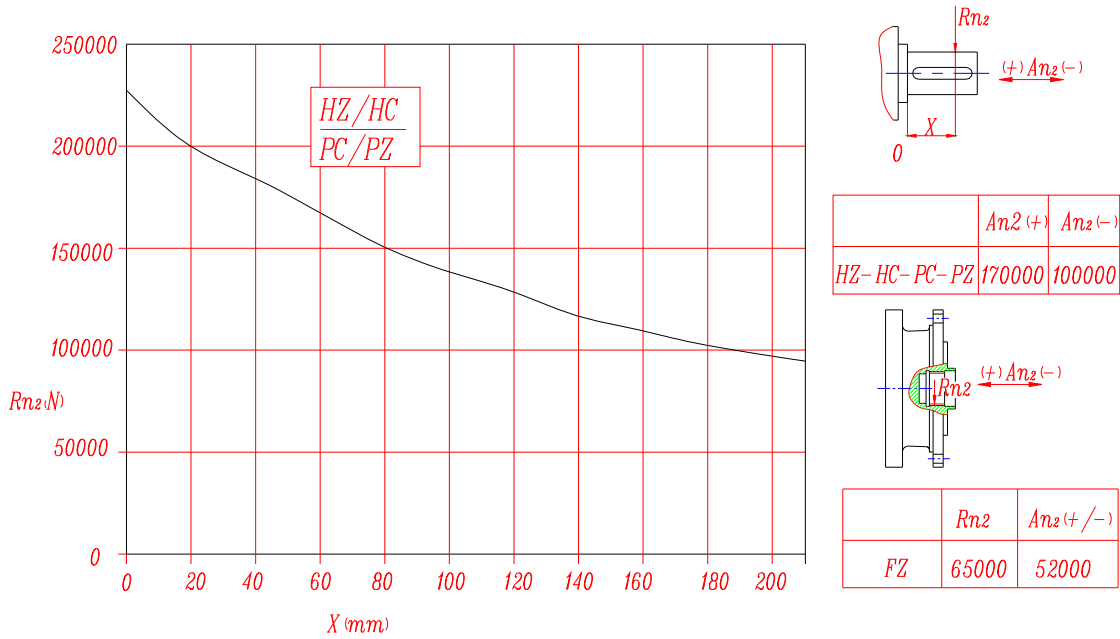
| | m | z | x | dp | di | de | H | A | B | C |
|-----|----|----|--------|-----|-----|-------|-----|---|----|-----|
| PLQ | 12 | 23 | 0 | 276 | 246 | 300 | 110 | 0 | 0 | 0 |
| PPD | 16 | 13 | 0.5000 | 208 | 184 | 252.5 | 145 | 0 | 35 | 116 |
| PPF | 16 | 15 | 0.450 | 240 | 215 | 280 | 125 | 0 | 15 | 120 |



| | CODE | V1 | V2 | V3 | V4 | V5 | A | B | F | L | S | D | U |
|-----------|------|----|-----|-------|-----|-----|----|----|------|-----|-----|-----|----|
| 310L1 | V10B | 80 | 130 | 377 | 200 | 400 | 22 | 14 | 85 | 110 | 10 | M16 | 36 |
| 310L2 | V06B | 60 | 105 | 307 | 155 | 292 | 18 | 11 | 64 | 90 | 7.5 | M16 | 36 |
| 310L3 | V05B | 48 | 82 | 239 | 155 | 245 | 14 | 9 | 51.5 | 70 | 6 | M16 | 36 |
| 310L4 | 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 |
| 310R2 | V06B | 60 | 105 | 307 | 155 | 292 | 18 | 11 | 64 | 90 | 7.5 | M16 | 36 |
| 310 R3-R4 | V01A | 24 | 36 | 136 | 130 | 186 | 8 | 7 | 27 | 30 | 3 | M8 | 19 |
| | V01B | 38 | 58 | 158 | 130 | 186 | 10 | 8 | 41 | 50 | 4 | M12 | 28 |

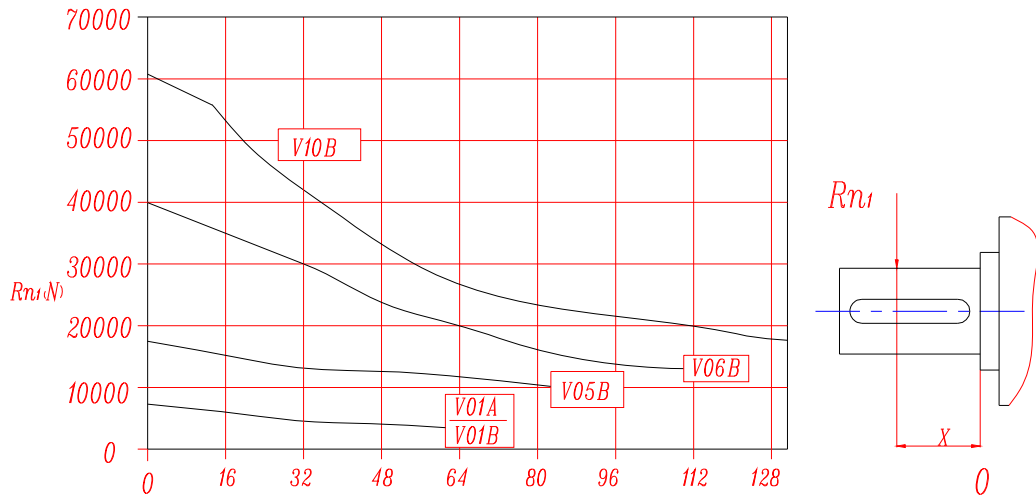
NB310L - NB310R

Permissible radial and axial loads on output shaft with Fh2 ($n_2 \cdot h=10\ 000$)



| Load corrective factor fh2 on shafts | $fh_2 = n_2 \cdot h$ | | 10 000 | 25 000 | 50 000 | 100 000 | 500 000 | 1 000 000 |
|--------------------------------------|----------------------|-------------|--------|--------|--------|---------|---------|-----------|
| | fh2 | 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 |

Permissible radial loads on input shaft with Fh1 ($n_1 \cdot h=250\ 000$)



| Load corrective factor fh1 on shafts | $Fh_1 = n_1 \cdot h$ | | 250 000 | 500 000 | 1 000 000 | 2 00 000 | 5 000 000 | 10 000 000 |
|--------------------------------------|----------------------|--|---------|---------|-----------|----------|-----------|------------|
| | fh1 | | 1 | 0.79 | 0.63 | 0.50 | 0.37 | 0.29 |