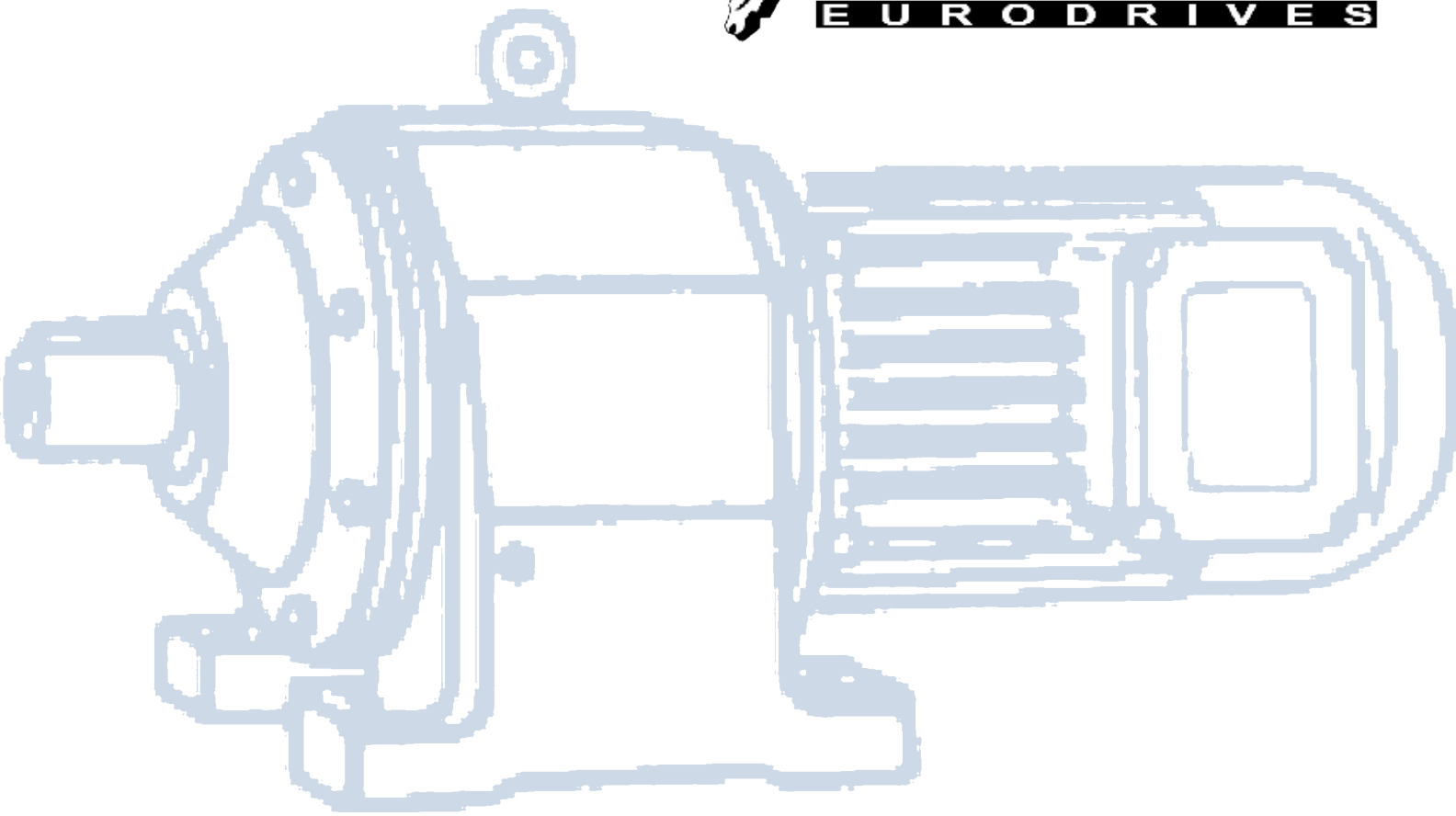


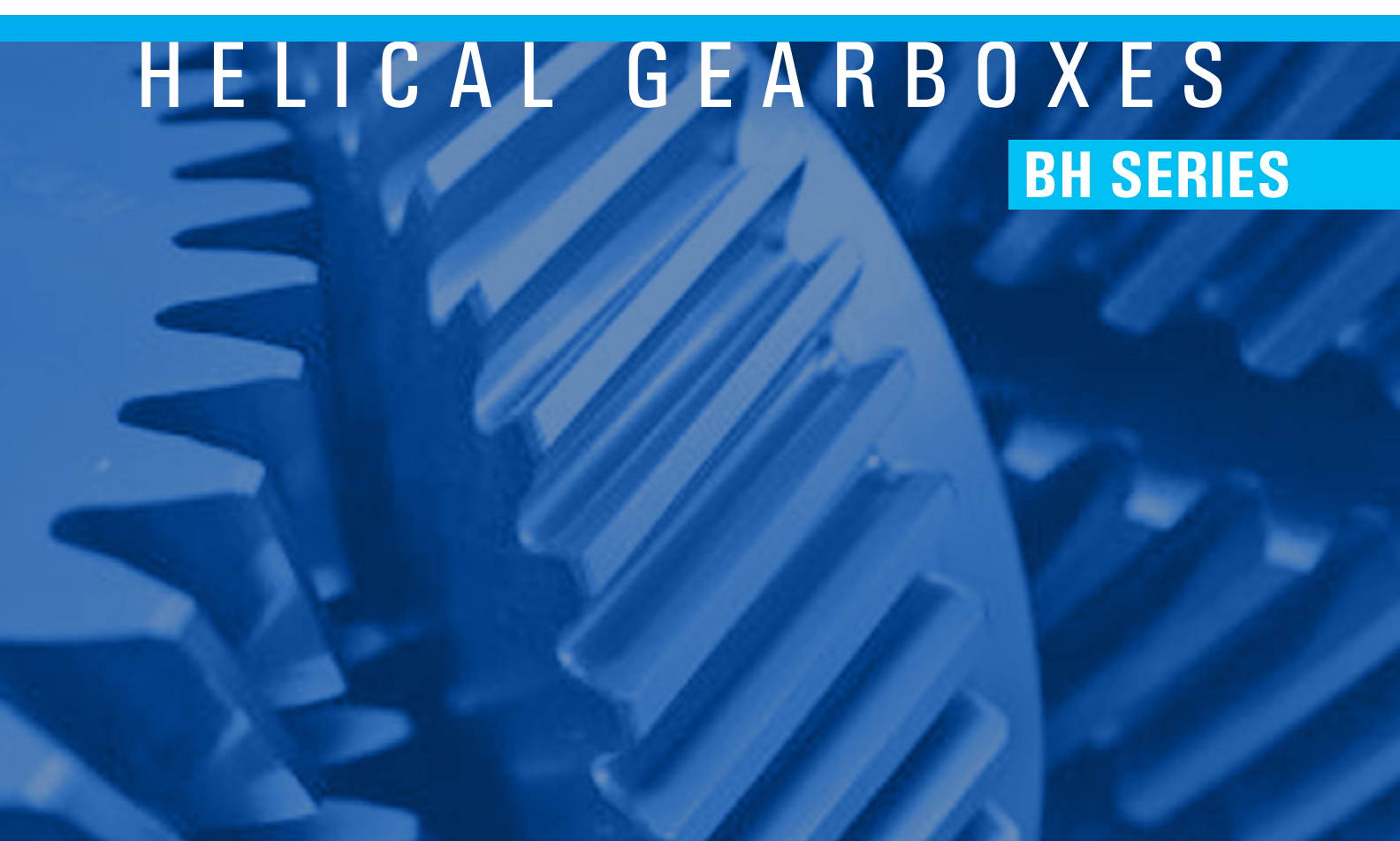


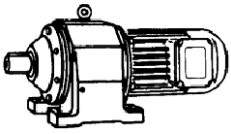
BONVARIO
EURODRIVES



HELICAL GEARBOXES

BH SERIES

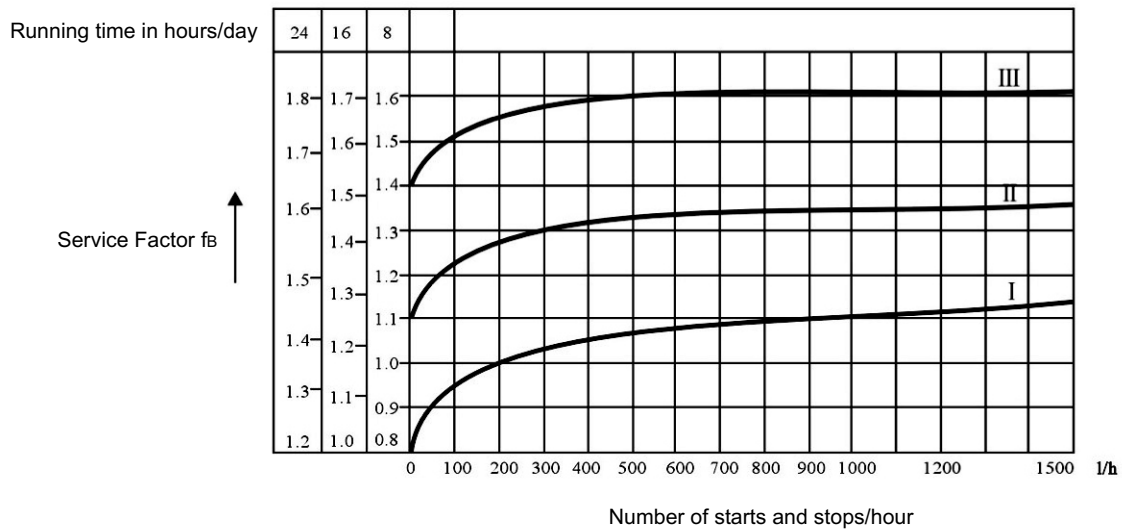




SELECTION OF HELICAL GEAR UNIT

In order to select the most suitable gear unit it is essential that a thorough knowledge of the driven machine are known. The gear units are normally designed for constant torque load with only a few starts/stops. If this conditions do not exist, it is necessary to determine a service factor. F_B , from the start/stop frequency, Load class, and the daily operating time as shown in the dia-gram below.

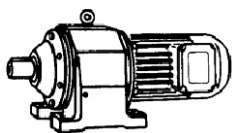
For gearmotors, the appropriate service factor taken from the diagram is then compared with the Service factor given with each speed/power combination listed in the gearmotor selection tables. To ensure a long, trouble free service life it is essential that the unit selected has a service factor equal to, or greater than, that determined from the diagram.



Load Classification




- I Uniform load. Permissible mass acceleration factor ≤ 0.2
 - II Moderate shock load. Permissible mass acceleration factor ≤ 3 .
 - III Heavy shock load. Permissible mass acceleration factor ≤ 10 .
- For mass acceleration factor > 10 please refer to our technical department.

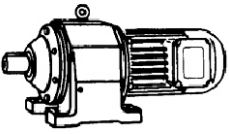
Example: Load classification I at 200 starts And stops/hour, running at 24 hours/day, $f_B = 1.35$.



SELECTION OF LUBRICANT OIL

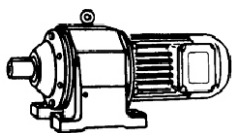
Proper viscosity of lubricant is contributive to sense the friction of gears, so the speed reducer can fully apply its function in the case of high load or impact load. The table below shows the selection of lubricants for BONVARIO helical gear boxes.

| Application | Lubrication type | Ambient temperature °C | ISO ISO viscosity class |  |  |  |
|--|--------------------|------------------------|-------------------------|--|---|---|
| Helical,shaft Mounted Helical, Helical-Bevel | Oil | +40 to 0 | VG 220 | BP Energol GR-XP220 | Mobilgear 630 | Shell Omala Oil 220 |
| | | +25 to-15 | VG 150 VG 100 | BP Energol GR-XP100 | Mobilgear 629 | Shell Omala Oil 100 |
| | | +10 to-30 | VG 68-46 VG 32 | BP Energol GR-XP68 | Mobil D.T.E 15M | Shell Tellus Oil T32 |
| | | -20 to -50 | VG 22 VG 15 | BP Energol LPT 22 | Mobil D.T.E 11M | Aero Shell Fluid 41 |
| | Grease | +40 to-15 | | BP Energrease HT-EP 00 | Mobilpex 44 | Shell Grease S 3655 |
| | Special Lubricants | -40 to +80 | VG 220 | | Mobil SHC 630 | |
| | | -40 to +10 | VG 32 | | Mobil SHC 624 | |



MOUNTING POSITIONS AND RESPECTIVE OIL LEVEL INDICATIONS

| | | |
|---|---|--|
| <p>B3</p> | <p>B6</p> | <p>B7</p> |
| <p>B8</p> | <p>V5</p> | <p>V6</p> |
| <p>V1</p> | <p>V3</p> | <p>B5</p> |
| <p>V15</p> <p>B35</p> <p>B65</p> | <p>V36</p> <p>B75</p> <p>B85</p> | <p>B5I</p> <p>B5II</p> <p>B5III</p> |



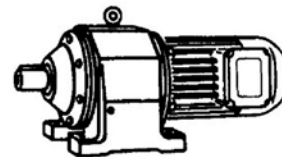
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

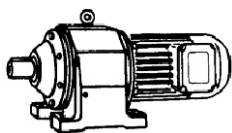
f_B - service factor

i - gear ratio

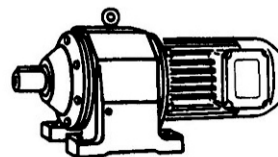
n_a - output rpm



| P _m Kw | n _a r/min | M _a N.m | i | F _{Ra} N | f _B | Size | kg |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|-----------|----|
| 0.12 | 8.0 | 143 | 110.87 | 5530 | 1.10 | 43 D 63N4 | 14 |
| | 9.0 | 127 | 95.22 | 5650 | 1.25 | 43 D 63N4 | 16 |
| | 11 | 104 | 81.44 | 5800 | 1.55 | | |
| | 13 | 88 | 110.87 | 5880 | 1.80 | 43 D 63K6 | 14 |
| | 14 | 82 | 95.22 | 5900 | 1.95 | 43 D 63K6 | 16 |
| | 17 | 67 | 81.44 | 5960 | 2.40 | | |
| | 20 | 57 | 70.57 | 6000 | 2.80 | | |
| | 22 | 52 | 61.75 | 6010 | 3.10 | | |
| | 36 | 32 | 24.36 | 1860 | 2.20 | 32 D 63N6 | 10 |
| | 42 | 27 | 20.84 | 1790 | 2.60 | 32 D 63N6 | 10 |
| 50 | 23 | 17.73 | 1710 | 3.05 | | | |
| 57 | 20 | 24.36 | 1660 | 3.50 | 32 D 63K4 | 10 | |
| 66 | 17 | 20.84 | 1590 | 4.10 | 32 D 63K4 | 10 | |
| 78 | 15 | 17.73 | 1520 | 4.15 | | | |
| 90 | 13 | 15.28 | 1460 | 4.60 | | | |
| 108 | 11 | 12.87 | 1400 | 5.45 | | | |
| 126 | 9 | 11.01 | 1310 | 5.45 | | | |
| 148 | 8 | 9.37 | 1250 | 6.25 | | | |
| 172 | 7 | 8.07 | 1190 | 7.15 | | | |
| 0.18 | 6.0 | 285 | 145.61 | 12500 | 1.95 | 73 D 63L6 | 36 |
| | 7.0 | 245 | 127.28 | 12500 | 2.30 | 73 D 63L6 | 40 |
| | 8.0 | 215 | 168.79 | 12600 | 2.60 | 73 D 63N4 | 36 |
| | 9.0 | 191 | 145.61 | 12600 | 2.95 | 73 D 63N4 | 40 |
| | 11 | 156 | 123.84 | 12600 | 3.85 | | |
| | 5.5 | 315 | 155.61 | 6920 | 1.10 | 63 D 63L6 | 24 |
| | 6.5 | 265 | 134.24 | 7350 | 1.30 | 63 D 63L6 | 25 |
| | 7.5 | 230 | 117.34 | 7590 | 1.50 | | |
| | 8.5 | 200 | 155.61 | 7770 | 1.75 | 63 D 63N4 | 23 |
| | 10 | 172 | 134.24 | 7910 | 2.05 | 63 D 63N4 | 24 |
| | 11 | 156 | 117.34 | 7980 | 2.25 | | |
| | 13 | 132 | 103.65 | 8070 | 2.65 | | |
| | 9.0 | 191 | 95.22 | 5050 | 0.85 | 43 D 63L6 | 15 |
| | 11 | 156 | 81.44 | 5420 | 1.05 | 43 D 63L6 | 17 |
| | 12 | 143 | 108.32 | 5530 | 1.10 | 43 D 63N4 | 14 |
| | 14 | 123 | 95.22 | 5680 | 1.30 | 43 D 63N4 | 16 |
| | 16 | 107 | 81.44 | 5780 | 1.50 | | |
| | 19 | 90 | 70.57 | 5870 | 1.80 | | |
| | 21 | 82 | 61.75 | 5900 | 1.95 | | |
| | 24 | 72 | 56.17 | 5950 | 2.20 | | |
| 27 | 64 | 48.44 | 5860 | 2.50 | | | |
| 35 | 49 | 24.36 | 1740 | 1.45 | 32 D 63L6 | 10 | |
| 41 | 42 | 20.84 | 1690 | 1.65 | 32 D 63L6 | 11 | |
| 49 | 35 | 17.73 | 1630 | 2.00 | | | |



BH SERIES SELECTION & PERFORMANCE TABLE



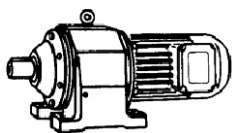
Code:

f_B - service factor

i - gear ratio

n_a - output rpm

| P_m Kw | n_a r/min | M_a N.m | i | F_{Ra} N | f_B | Size | kg |
|-------------|----------------|--------------|--------|---------------|-----------|-----------|-----|
| 0.18 | 54 | 32 | 24.36 | 1590 | 2.20 | 32 D 63N4 | 10 |
| | 63 | 27 | 20.84 | 1540 | 2.60 | 32 D 63N4 | 10 |
| | 74 | 23 | 17.73 | 1480 | 2.85 | | |
| | 86 | 20 | 15.28 | 1420 | 3.00 | | |
| | 103 | 17 | 12.87 | 1380 | 3.55 | | |
| | 120 | 14 | 11.01 | 1290 | 3.50 | | |
| | 141 | 12 | 9.37 | 1240 | 4.15 | | |
| | 164 | 10 | 8.07 | 1190 | 5.00 | | |
| | 153 | 11 | 17.73 | 1220 | 4.55 | 32 D 63K2 | 10 |
| | 178 | 10 | 15.28 | 1160 | 5.00 | 32 D 63K2 | 10 |
| | 212 | 8 | 12.87 | 1120 | 5.65 | | |
| | 248 | 7 | 11.01 | 1050 | 6.45 | | |
| | 292 | 6 | 9.37 | 1000 | 6.65 | | |
| | 338 | 5 | 8.07 | 960 | 8.00 | | |
| 0.25 | 2.4 | 990 | 277.63 | 26300 | 2.10 | 93 DT80N8 | 110 |
| | 3.0 | 795 | 228.38 | 26500 | 2.65 | 93 DT80N8 | 107 |
| | 3.2 | 745 | 213.56 | 17600 | 1.50 | 83 DT80N8 | 69 |
| | 3.6 | 665 | 189.66 | 17800 | 1.65 | 83 DT80N8 | 69 |
| | 4.5 | 530 | 145.61 | 11600 | 1.05 | 73 DT80N8 | 41 |
| | 5.5 | 435 | 127.28 | 12000 | 1.30 | 73 DT80N8 | 45 |
| | 6.0 | 400 | 145.61 | 12100 | 1.40 | 73 DT71D6 | 37 |
| | 7.0 | 340 | 127.28 | 12300 | 1.65 | 73 DT71D6 | 41 |
| | 7.5 | 320 | 168.79 | 12400 | 1.75 | 73 D 63L4 | 36 |
| | 9.0 | 265 | 145.61 | 12500 | 2.10 | 73 D 63L4 | 40 |
| | 10 | 240 | 123.84 | 12500 | 2.50 | | |
| | 5.5 | 435 | 155.61 | 5380 | 0.80 | 63 DT71D6 | 25 |
| | 6.5 | 365 | 134.24 | 6380 | 0.95 | 63 DT71D6 | 26 |
| | 7.5 | 320 | 117.34 | 6870 | 1.10 | | |
| | 8.5 | 280 | 103.65 | 7230 | 1.25 | | |
| | 8.5 | 280 | 155.61 | 7230 | 1.25 | 63 D 63L4 | 24 |
| | 9.5 | 250 | 134.24 | 7460 | 1.40 | 63 D 63L4 | 25 |
| | 11 | 215 | 117.34 | 7690 | 1.65 | | |
| | 13 | 184 | 103.65 | 7850 | 1.90 | | |
| | 14 | 171 | 94.71 | 7920 | 2.05 | | |
| | 16 | 149 | 82.62 | 8010 | 2.35 | | |
| | 18 | 133 | 72.73 | 8070 | 2.65 | | |
| 12 | 199 | 108.32 | 4960 | 0.80 | 43 D 63L4 | 15 | |
| 14 | 171 | 95.22 | 5270 | 0.95 | 43 D 63L4 | 17 | |
| 16 | 149 | 81.44 | 5480 | 1.05 | | | |
| 18 | 133 | 70.57 | 5610 | 1.20 | | | |
| 21 | 114 | 61.75 | 5740 | 1.40 | | | |
| 23 | 104 | 56.17 | 5800 | 1.55 | | | |
| 27 | 88 | 48.44 | 5720 | 1.80 | | | |
| 31 | 77 | 41.97 | 5510 | 2.10 | | | |
| 35 | 68 | 36.73 | 5320 | 2.35 | | | |
| 39 | 61 | 33.41 | 5160 | 2.60 | | | |
| 47 | 51 | 27.95 | 4860 | 2.85 | | | |



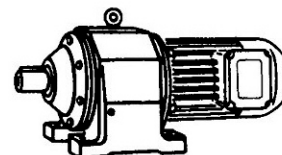
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

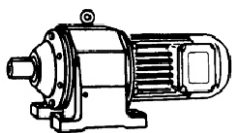
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m Kw | n _a r/min | M _a N.m | i | F _{Ra} N | f _B | Size | | kg |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|--------|--------|-----|
| 0.25 | 36 | 66 | 24.33 | 1590 | 1.05 | 32 | DT71D6 | 11 |
| | 42 | 57 | 20.84 | 1550 | 1.25 | 32 | DT71D6 | 12 |
| | 49 | 49 | 17.73 | 1520 | 1.45 | | | |
| | 53 | 45 | 24.33 | 1500 | 1.55 | 32 | D 63L4 | 10 |
| | 62 | 39 | 20.84 | 1450 | 1.80 | 32 | D 63L4 | 11 |
| | 73 | 33 | 17.73 | 1410 | 1.95 | | | |
| | 85 | 28 | 15.28 | 1370 | 2.15 | | | |
| | 102 | 23 | 12.87 | 1320 | 2.50 | | | |
| | 119 | 20 | 11.01 | 1240 | 2.45 | | | |
| | 139 | 17 | 9.37 | 1200 | 2.95 | | | |
| | 162 | 15 | 8.07 | 1150 | 3.35 | | | |
| | 150 | 16 | 17.73 | 1190 | 3.15 | 32 | D 63N2 | 10 |
| | 174 | 14 | 15.28 | 1140 | 3.55 | 32 | D 63N2 | 10 |
| | 207 | 11 | 12.87 | 1100 | 3.75 | | | |
| | 242 | 10 | 11.01 | 1030 | 4.50 | | | |
| 0.37 | 2.4 | 1470 | 277.63 | 25700 | 1.45 | 93 | DT90S8 | 116 |
| | 3.0 | 1180 | 228.38 | 26100 | 1.80 | 93 | DT90S8 | 113 |
| | 3.4 | 1040 | 254.79 | 26200 | 2.20 | 93 | DT80K6 | 109 |
| | 4.0 | 880 | 209.58 | 26400 | 2.60 | 93 | DT80K6 | 106 |
| | 3.2 | 1100 | 213.56 | 16300 | 1.00 | 83 | DT90S8 | 74 |
| | 3.6 | 980 | 189.66 | 16800 | 1.10 | 83 | DT90S8 | 74 |
| | 4.0 | 880 | 213.56 | 17200 | 1.25 | 83 | DT80K6 | 67 |
| | 4.5 | 785 | 189.66 | 17500 | 1.40 | 83 | DT80K6 | 67 |
| | 5.0 | 705 | 169.49 | 17700 | 1.70 | | | |
| | 6.0 | 590 | 150.52 | 18000 | 2.05 | | | |
| | 5.5 | 640 | 127.28 | 10900 | 0.90 | 73 | DT90S8 | 46 |
| | | | | | | 73 | DT90S8 | 50 |
| | 6.0 | 590 | 145.61 | 11200 | 0.95 | 73 | DT80K6 | 39 |
| | 7.0 | 505 | 127.28 | 11700 | 1.10 | 73 | DT80K6 | 43 |
| | 8.0 | 440 | 168.79 | 12000 | 1.25 | 73 | DT71D4 | 37 |
| | 9.5 | 370 | 145.61 | 12200 | 1.50 | 73 | DT71D4 | 41 |
| | 11 | 320 | 123.84 | 12400 | 1.90 | | | |
| | 13 | 270 | 108.26 | 12500 | 2.20 | | | |
| | 14 | 250 | 95.63 | 12500 | 2.40 | | | |
| | 16 | 220 | 87.38 | 12600 | 2.75 | | | |
| | 8.5 | 415 | 103.65 | 5700 | 0.85 | 63 | DT80K6 | 26 |
| | | | | | 63 | DT80K6 | 27 | |



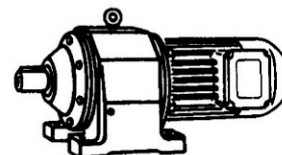
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

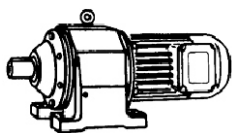
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m Kw | n _a r/min | M _a N.m | i | F _{Ra} N | f _B | Size | kg |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|-----------|----|
| 0.37 | 9.0 | 395 | 155.61 | 5990 | 0.90 | 63 DT71D4 | 25 |
| | 10 | 355 | 134.24 | 6500 | 1.00 | 63 DT71D4 | 26 |
| | 12 | 295 | 117.34 | 7100 | 1.20 | | |
| | 13 | 270 | 103.65 | 7310 | 1.30 | | |
| | 15 | 235 | 94.71 | 7560 | 1.50 | | |
| | 17 | 210 | 82.62 | 7720 | 1.65 | | |
| | 19 | 186 | 72.73 | 7840 | 1.90 | | |
| | 21 | 168 | 64.26 | 7830 | 2.10 | | |
| | 25 | 141 | 56.02 | 7470 | 2.50 | | |
| | 28 | 126 | 48.65 | 7240 | 2.80 | | |
| | 20 | 177 | 70.57 | 5210 | 0.90 | 43 DT71D4 | 16 |
| | 22 | 161 | 61.75 | 5370 | 1.00 | 43 DT71D4 | 18 |
| | 25 | 141 | 56.17 | 5550 | 1.15 | | |
| | 28 | 126 | 48.44 | 5440 | 1.25 | | |
| 33 | 107 | 41.97 | 5220 | 1.50 | | | |
| 38 | 93 | 36.73 | 5030 | 1.70 | | | |
| 41 | 86 | 33.41 | 4930 | 1.85 | | | |
| 49 | 72 | 27.95 | 4670 | 2.00 | | | |
| 56 | 63 | 24.46 | 4500 | 2.30 | | | |
| 62 | 57 | 22.25 | 4370 | 2.55 | | | |
| 72 | 49 | 19.15 | 4190 | 2.95 | | | |
| 87 | 41 | 15.84 | 3980 | 3.05 | 42 DT71D4 | 15 | |
| 101 | 35 | 13.72 | 3810 | 4.15 | 42 DT71D4 | 17 | |
| 49 | 72 | 17.73 | 1330 | 0.95 | 32 DT80K6 | 13 | |
| | | | | | 32 DT80K6 | 13 | |
| 57 | 62 | 24.33 | 1320 | 1.15 | 32 DT71D4 | 11 | |
| 66 | 54 | 20.84 | 1300 | 1.30 | 32 DT71D4 | 12 | |
| 78 | 45 | 17.73 | 1280 | 1.45 | | | |
| 90 | 39 | 15.28 | 1250 | 1.55 | | | |
| 108 | 33 | 12.87 | 1210 | 1.75 | | | |
| 126 | 28 | 11.01 | 1150 | 1.75 | | | |
| 148 | 24 | 9.37 | 1110 | 2.10 | | | |
| 172 | 21 | 8.07 | 1070 | 2.40 | | | |
| 149 | 24 | 17.73 | 1130 | 2.10 | 32 D 63L2 | 10 | |
| 173 | 20 | 15.28 | 1090 | 2.50 | 32 D 63L2 | 11 | |
| 207 | 17 | 12.87 | 1050 | 2.50 | | | |
| 242 | 15 | 11.01 | 990 | 3.00 | | | |
| 284 | 12 | 9.37 | 960 | 3.35 | | | |
| 330 | 11 | 8.07 | 910 | 3.65 | | | |



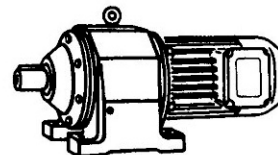
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

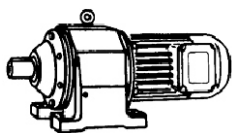
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m Kw | n _a r/min | M _a N.m | i | F _{Ra} N | f _B | Size | kg |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|-----------|-----|
| 0.55 | 2.4 | 2190 | 277.63 | 23900 | 0.95 | 93 DT90L8 | 117 |
| | 3.0 | 1750 | 228.38 | 25300 | 1.20 | 93 DT90L8 | 114 |
| | 3.4 | 1540 | 254.79 | 25600 | 1.50 | 93 DT80N6 | 110 |
| | 4.0 | 1310 | 209.58 | 25900 | 1.75 | 93 DT80N6 | 107 |
| | 5.0 | 1050 | 277.63 | 26200 | 2.00 | 93 DT80K4 | 109 |
| | 5.5 | 960 | 254.79 | 26300 | 2.40 | 93 DT80K4 | 106 |
| | 6.5 | 810 | 209.58 | 26400 | 2.85 | | |
| | 4.0 | 1310 | 213.56 | 15200 | 0.85 | 83 DT80N6 | 69 |
| | 4.5 | 1170 | 189.66 | 15900 | 0.95 | 83 DT80N6 | 69 |
| | 5.0 | 1050 | 169.49 | 16500 | 1.15 | | |
| | 6.0 | 880 | 150.52 | 17200 | 1.35 | | |
| | 6.5 | 810 | 213.56 | 17400 | 1.35 | 83 DT80K4 | 67 |
| | 7.5 | 700 | 189.66 | 17700 | 1.55 | 83 DT80K4 | 67 |
| | 8.0 | 655 | 169.49 | 17900 | 1.85 | | |
| | 9.0 | 585 | 150.52 | 18000 | 2.05 | | |
| 10 | 525 | 137.87 | 18100 | 2.30 | | | |
| 11 | 480 | 121.12 | 18200 | 2.50 | | | |
| 13 | 405 | 107.42 | 18400 | 2.95 | | | |
| 9.5 | 555 | 145.61 | 11400 | 1.00 | 73 DT80K4 | 39 | |
| 11 | 480 | 123.84 | 11800 | 1.25 | 73 DT80K4 | 43 | |
| 13 | 405 | 108.26 | 12100 | 1.50 | | | |
| 14 | 375 | 95.63 | 12200 | 1.60 | | | |
| 16 | 330 | 87.38 | 12400 | 1.80 | | | |
| 18 | 290 | 76.22 | 12500 | 2.05 | | | |
| 21 | 250 | 67.10 | 12500 | 2.40 | | | |
| 23 | 230 | 59.28 | 12600 | 2.60 | | | |
| 12 | 440 | 117.34 | 5290 | 0.80 | 63 DT80K4 | 26 | |
| 13 | 405 | 103.65 | 5850 | 0.85 | 63 DT80K4 | 27 | |
| 15 | 350 | 94.71 | 6560 | 1.00 | | | |
| 17 | 310 | 82.62 | 6970 | 1.15 | | | |
| 19 | 275 | 72.73 | 7270 | 1.25 | | | |
| 21 | 250 | 64.26 | 7430 | 1.40 | | | |
| 25 | 210 | 56.02 | 7140 | 1.65 | | | |
| 28 | 188 | 48.65 | 6940 | 1.85 | | | |
| 32 | 164 | 42.98 | 6710 | 2.15 | | | |
| 35 | 150 | 39.27 | 6560 | 2.35 | | | |
| 40 | 131 | 34.26 | 6330 | 2.65 | | | |
| 57 | 92 | 24.24 | 5790 | 2.70 | 62 DT80K4 | 25 | |
| 64 | 82 | 21.41 | 5600 | 3.05 | 62 DT80K4 | 26 | |
| 28 | 188 | 48.44 | 5090 | 0.85 | 43 DT80K4 | 18 | |
| 33 | 159 | 41.97 | 4930 | 1.00 | 43 DT80K4 | 20 | |
| 38 | 138 | 36.73 | 4780 | 1.15 | | | |
| 41 | 128 | 33.41 | 4700 | 1.25 | | | |
| 49 | 107 | 27.95 | 4460 | 1.35 | | | |
| 56 | 94 | 24.46 | 4320 | 1.55 | | | |
| 62 | 85 | 22.25 | 4210 | 1.70 | | | |
| 72 | 73 | 19.15 | 4050 | 2.00 | | | |
| 83 | 63 | 16.62 | 3900 | 2.30 | | | |
| 96 | 55 | 14.36 | 3750 | 2.65 | | | |
| 87 | 60 | 15.84 | 3870 | 2.10 | 42 DT80K4 | 17 | |
| 101 | 52 | 13.72 | 3710 | 2.80 | 42 DT80K4 | 19 | |
| 115 | 46 | 12.01 | 3580 | 3.15 | | | |



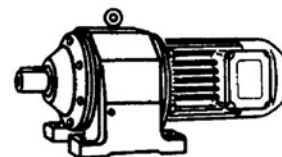
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

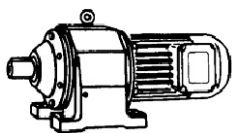
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m Kw | n _a r/min | M _a N.m | i | F _{Ra} N | f _B | Size | kg |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|--------------|-----|
| 0.55 | 78 | 67 | 17.73 | 1100 | 0.95 | 32 DT80K4 | 13 |
| | 90 | 58 | 15.28 | 1100 | 1.05 | 32 DT80K4 | 13 |
| | 148 | 35 | 9.37 | 1010 | 1.45 | | |
| | 172 | 31 | 8.07 | 980 | 1.60 | | |
| | 152 | 35 | 17.73 | 1030 | 1.45 | 32 DT71D2 | 11 |
| | 177 | 30 | 15.28 | 1000 | 1.65 | 32 DT71D2 | 12 |
| | 210 | 25 | 12.87 | 980 | 1.75 | | |
| | 246 | 21 | 11.01 | 930 | 2.15 | | |
| | 289 | 18 | 9.37 | 900 | 2.20 | | |
| | 336 | 16 | 8.07 | 860 | 2.50 | | |
| 0.75 | 3.4 | 2110 | 204.1 | 32900 | 1.65 | 103 DT100LS8 | 177 |
| | 3.8 | 1840 | 176.89 | 33200 | 2.15 | 103 DT100LS8 | 166 |
| | 3.0 | 2390 | 228.38 | 22900 | 0.90 | 93 DT100LS8 | 122 |
| | | | | | | 93 DT100LS8 | 119 |
| | 3.5 | 2050 | 254.79 | 24500 | 1.10 | 93 DT90S6 | 116 |
| | | | | | | 93 DT90S6 | 113 |
| | 5.0 | 1430 | 277.63 | 25800 | 1.45 | 93 DT80N4 | 110 |
| | 5.5 | 1300 | 254.79 | 26000 | 1.75 | 93 DT80N4 | 107 |
| | 6.5 | 1100 | 209.58 | 26200 | 2.10 | | |
| | 7.5 | 960 | 185.28 | 26300 | 2.40 | | |
| | 8.5 | 840 | 165.42 | 26400 | 2.75 | | |
| | 5.5 | 1300 | 169.49 | 15200 | 0.90 | 83 DT90S6 | 74 |
| | | | | | | 83 DT90S6 | 74 |
| | 6.0 | 1190 | 150.52 | 15800 | 1.00 | | |
| | | | | | | | |
| | 6.5 | 1100 | 213.56 | 16300 | 1.00 | 83 DT80N4 | 69 |
| | 7.5 | 960 | 189.66 | 16900 | 1.15 | 83 DT80N4 | 69 |
| | 8.0 | 900 | 169.49 | 17100 | 1.35 | | |
| | 9.0 | 795 | 150.52 | 17500 | 1.50 | | |
| | 10 | 715 | 137.87 | 17700 | 1.70 | | |
| | 11 | 650 | 121.12 | 17900 | 1.85 | | |
| | 13 | 550 | 107.42 | 18100 | 2.20 | | |
| 14 | 510 | 96.01 | 18200 | 2.35 | | | |
| 16 | 450 | 84.61 | 18300 | 2.65 | | | |
| 11 | 650 | 123.84 | 10900 | 0.90 | 73 DT80N4 | 41 | |
| 13 | 550 | 108.26 | 11500 | 1.10 | 73 DT80N4 | 45 | |
| 14 | 510 | 95.63 | 11700 | 1.20 | | | |
| 16 | 450 | 87.38 | 11900 | 1.35 | | | |
| 18 | 400 | 76.22 | 12100 | 1.50 | | | |
| 21 | 340 | 67.10 | 12300 | 1.75 | | | |
| 23 | 310 | 59.28 | 12400 | 1.95 | | | |
| 27 | 265 | 51.68 | 12500 | 2.25 | | | |
| 31 | 230 | 44.05 | 12600 | 2.60 | | | |



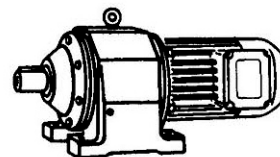
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

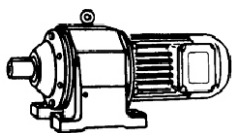
f_B - service factor

i - gear ratio

na - output rpm



| Pm kw | na r/min | Ma N·m | i | FRa N | f _B | Size | | kg | |
|-------------|-------------|-----------|--------|----------|----------------|------|---------|--------|----|
| 0.75 | 17 | 420 | 82.62 | 5620 | 0.85 | 63 | DT80N4 | 28 | |
| | 19 | 375 | 72.73 | 6260 | 0.95 | 63 | DT80N4 | 29 | |
| | 21 | 340 | 64.26 | 6670 | 1.05 | | | | |
| | 25 | 285 | 56.02 | 6780 | 1.25 | | | | |
| | 28 | 255 | 48.65 | 6620 | 1.35 | | | | |
| | 32 | 225 | 42.98 | 6420 | 1.55 | | | | |
| | 35 | 205 | 39.27 | 6300 | 1.70 | | | | |
| | 40 | 179 | 34.26 | 6110 | 1.95 | | | | |
| | 46 | 156 | 30.16 | 5900 | 2.25 | | | | |
| | 52 | 138 | 26.64 | 5720 | 2.55 | | | | |
| | 59 | 121 | 23.23 | 5540 | 2.90 | | | | |
| | | 57 | 126 | 24.24 | 5640 | 2.00 | 62 | DT80N4 | 27 |
| | | 64 | 112 | 21.41 | 5470 | 2.25 | 62 | DT80N4 | 28 |
| | | 71 | 101 | 19.56 | 5310 | 2.50 | | | |
| | 81 | 88 | 17.06 | 5120 | 2.85 | | | | |
| | 38 | 188 | 36.73 | 3990 | 0.85 | 43 | DT80N4 | 19 | |
| | 41 | 175 | 33.41 | 4240 | 0.90 | 43 | DT80N4 | 21 | |
| | 49 | 146 | 27.95 | 4240 | 1.00 | | | | |
| | 56 | 128 | 24.46 | 4120 | 1.15 | | | | |
| | 62 | 116 | 22.25 | 4030 | 1.25 | | | | |
| | 72 | 99 | 19.15 | 3900 | 1.45 | | | | |
| | 83 | 86 | 16.62 | 3770 | 1.70 | | | | |
| | 96 | 75 | 14.36 | 3630 | 1.95 | | | | |
| | 87 | 82 | 15.84 | 3750 | 1.50 | 42 | DT80N4 | 18 | |
| | 101 | 71 | 13.72 | 3610 | 2.05 | 42 | DT80N4 | 20 | |
| | 115 | 62 | 12.01 | 3490 | 2.35 | | | | |
| | 126 | 57 | 10.92 | 3400 | 2.55 | | | | |
| | 147 | 49 | 9.40 | 3260 | 2.95 | | | | |
| | 148 | 48 | 9.37 | 900 | 1.05 | 32 | DT80N4 | 14 | |
| | 172 | 42 | 8.07 | 880 | 1.20 | 32 | DT80N4 | 15 | |
| | 152 | 47 | 17.73 | 930 | 1.05 | 32 | DT80K2 | 13 | |
| | 177 | 40 | 15.28 | 920 | 1.25 | 32 | DT80K2 | 13 | |
| | 289 | 25 | 9.37 | 840 | 1.60 | | | | |
| | 336 | 21 | 8.07 | 820 | 1.90 | | | | |
| 1.1 | 3.3 | 3180 | 204.1 | 31300 | 1.10 | 103 | DT100L8 | 180 | |
| | 3.7 | 2760 | 176.89 | 32000 | 1.45 | 103 | DT100L8 | 169 | |
| | 4.5 | 2330 | 209.58 | 23200 | 1.00 | 93 | DT90L6 | 117 | |
| | | | | | | 93 | DT90L6 | 114 | |



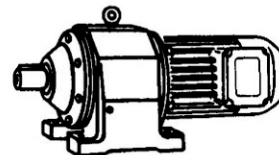
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

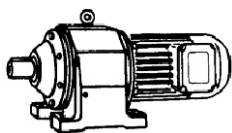
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m kw | n _a r/min | M _a N·m | i | FR _a N | f _B | Size | kg |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|-----------|-----|
| 1.1 | 5.0 | 2100 | 277.63 | 24300 | 1.00 | 93 DT90S4 | 116 |
| | 5.5 | 1910 | 254.79 | 25000 | 1.20 | 93 DT90S4 | 113 |
| | 6.5 | 1620 | 209.58 | 25500 | 1.40 | | |
| | 7.5 | 1400 | 185.28 | 25800 | 1.65 | | |
| | 8.5 | 1240 | 165.42 | 26000 | 1.85 | | |
| | 9.5 | 1110 | 148.56 | 26200 | 2.05 | | |
| | 11 | 960 | 132.03 | 26300 | 2.40 | | |
| | 12 | 880 | 114.47 | 26400 | 2.60 | | |
| | 8.5 | 1240 | 169.49 | 15600 | 0.95 | 83 DT90S4 | 74 |
| | 9.5 | 1110 | 150.52 | 16200 | 1.10 | 83 DT90S4 | 74 |
| 10 | 1050 | 137.87 | 16500 | 1.15 | | | |
| 12 | 880 | 121.12 | 17200 | 1.35 | | | |
| 13 | 810 | 107.42 | 17400 | 1.50 | | | |
| 15 | 700 | 96.01 | 17700 | 1.70 | | | |
| 17 | 620 | 84.61 | 17900 | 1.95 | | | |
| 19 | 555 | 73.15 | 18100 | 2.15 | | | |
| 21 | 500 | 66.15 | 18200 | 2.40 | | | |
| 24 | 440 | 58.67 | 18300 | 2.75 | | | |
| 15 | 700 | 95.63 | 10500 | 0.85 | 73 DT90S4 | 46 | |
| 16 | 655 | 87.38 | 10800 | 0.90 | 73 DT90S4 | 50 | |
| 18 | 585 | 76.22 | 11300 | 1.05 | | | |
| 21 | 500 | 67.10 | 11700 | 1.20 | | | |
| 24 | 440 | 59.28 | 12000 | 1.35 | | | |
| 27 | 390 | 51.68 | 12200 | 1.55 | | | |
| 32 | 330 | 44.05 | 12400 | 1.80 | | | |
| 36 | 290 | 38.43 | 12500 | 2.05 | | | |
| 41 | 255 | 33.83 | 12500 | 2.35 | | | |
| 47 | 225 | 29.89 | 12200 | 2.65 | | | |
| 61 | 172 | 22.95 | 11300 | 2.90 | 72 DT90S4 | 45 | |
| 69 | 152 | 20.16 | 10900 | 3.70 | 72 DT90S4 | 48 | |
| 25 | 420 | 56.02 | 7000 | 0.85 | 63 DT90S4 | 32 | |
| 29 | 360 | 48.65 | 6030 | 0.95 | 63 DT90S4 | 33 | |
| 33 | 320 | 42.98 | 5890 | 1.10 | | | |
| 36 | 290 | 39.27 | 5820 | 1.20 | | | |
| 41 | 255 | 34.26 | 5680 | 1.35 | | | |
| 46 | 230 | 30.16 | 5540 | 1.50 | | | |
| 53 | 198 | 26.64 | 5390 | 1.75 | | | |
| 60 | 175 | 23.23 | 5240 | 2.00 | | | |
| 71 | 148 | 19.68 | 5040 | 2.35 | | | |
| 85 | 124 | 16.55 | 4820 | 2.80 | | | |
| 58 | 181 | 24.24 | 5360 | 1.40 | 62 DT90S4 | 31 | |
| 65 | 162 | 21.41 | 5220 | 1.55 | 62 DT90S4 | 32 | |
| 72 | 146 | 19.56 | 5090 | 1.70 | | | |
| 82 | 128 | 17.06 | 4920 | 1.95 | | | |
| 88 | 119 | 15.95 | 4780 | 2.75 | | | |
| 63 | 167 | 22.25 | 2440 | 0.85 | 43 DT90S4 | 23 | |
| 73 | 144 | 19.15 | 3010 | 1.00 | 43 DT90S4 | 25 | |
| 84 | 125 | 16.62 | 3440 | 1.15 | | | |
| 97 | 108 | 14.36 | 3420 | 1.35 | | | |
| 102 | 103 | 13.72 | 3420 | 1.40 | 42 DT90S4 | 23 | |
| 117 | 90 | 12.01 | 3310 | 1.60 | 42 DT90S4 | 25 | |
| 128 | 82 | 10.92 | 3240 | 1.75 | | | |
| 149 | 71 | 9.40 | 3120 | 2.05 | | | |
| 172 | 61 | 8.16 | 3010 | 2.30 | | | |
| 193 | 54 | 7.27 | 2910 | 2.40 | | | |
| 224 | 47 | 6.26 | 2790 | 2.55 | | | |
| 258 | 41 | 5.43 | 2690 | 2.70 | | | |
| 298 | 35 | 4.70 | 2580 | 2.85 | | | |



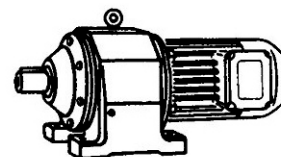
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

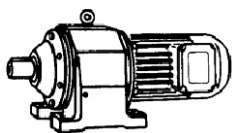
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m kw | n _a r/min | M _a N·m | i | FR _a N | f _B | Size | kg |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|-------------|-----|
| 1.1 | 170 | 62 | 15.84 | 3020 | 2.00 | 42 DT80N2 | 18 |
| | 197 | 53 | 13.72 | 2910 | 2.75 | 42 DT80N2 | 20 |
| | 225 | 47 | 12.01 | 2800 | 3.10 | | |
| | 177 | 59 | 15.28 | 770 | 0.85 | 32 DT80N2 | 14 |
| | 289 | 36 | 9.37 | 740 | 1.10 | 32 DT80N2 | 15 |
| | 336 | 31 | 8.07 | 730 | 1.30 | | |
| 1.5 | 3.5 | 4090 | 204.1 | 28400 | 0.85 | 103 DT112M8 | 189 |
| | 4.0 | 3580 | 176.89 | 30500 | 1.10 | 103 DT112M8 | 178 |
| | | | | | | | |
| | 4.4 | 3180 | 204.1 | 31300 | 1.10 | 103 DT100L6 | 180 |
| | 5.4 | 2600 | 176.89 | 32200 | 1.55 | 103 DT100L6 | 169 |
| | 6.4 | 2200 | 143.02 | 32800 | 1.80 | | |
| | 5.5 | 2600 | 254.79 | 21700 | 0.90 | 93 DT90L4 | 117 |
| | 7.0 | 2050 | 209.79 | 24500 | 1.10 | 93 DT90L4 | 114 |
| | 7.5 | 1910 | 185.28 | 25000 | 1.20 | | |
| | 8.5 | 1690 | 165.42 | 25400 | 1.35 | | |
| | 9.5 | 1510 | 148.56 | 25700 | 1.50 | | |
| | 11 | 1300 | 132.03 | 26000 | 1.75 | | |
| | 12 | 1190 | 114.47 | 26100 | 1.95 | | |
| | 14 | 1020 | 101.59 | 26300 | 2.25 | | |
| | 17 | 840 | 85.63 | 26400 | 2.75 | | |
| | 10 | 1430 | 137.87 | 14400 | 0.85 | 83 DT90L4 | 75 |
| | 12 | 1190 | 121.12 | 15800 | 1.00 | 83 DT90L4 | 75 |
| | 13 | 1100 | 107.42 | 16300 | 1.10 | | |
| | 15 | 960 | 96.01 | 16900 | 1.25 | | |
| | 17 | 838 | 84.61 | 17300 | 1.45 | | |
| | 19 | 755 | 73.15 | 17600 | 1.60 | | |
| | 21 | 680 | 66.15 | 17800 | 1.75 | | |
| | 24 | 595 | 58.67 | 18000 | 2.00 | | |
| | 27 | 530 | 52.44 | 18100 | 2.25 | | |
| | 31 | 460 | 46.21 | 18300 | 2.60 | | |
| | 36 | 400 | 39.95 | 18300 | 3.00 | | |
| | 39 | 365 | 35.95 | 17900 | 2.35 | 82 DT90L4 | 73 |
| | 45 | 320 | 31.78 | 17200 | 3.15 | 82 DT90L4 | 73 |
| | 21 | 680 | 67.10 | 10700 | 0.90 | 73 DT90L4 | 47 |
| | 24 | 595 | 59.28 | 11200 | 1.00 | 73 DT90L4 | 51 |
| | 27 | 530 | 51.68 | 11600 | 1.15 | | |
| | 32 | 450 | 44.05 | 11900 | 1.35 | | |
| | 37 | 385 | 38.43 | 12200 | 1.55 | | |
| | 42 | 340 | 33.83 | 12200 | 1.75 | | |
| | 48 | 300 | 29.89 | 11800 | 2.00 | | |
| | 54 | 265 | 26.06 | 11400 | 2.25 | | |
| | 64 | 225 | 22.08 | 10900 | 2.65 | | |



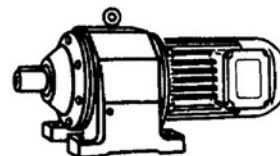
BH SERIES SELECTION & PERFORMANCE TABLE

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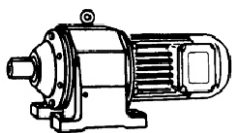
f_B - service factor

i - gear ratio

n_a - output rpm



| Pm kw | n _a r/min | M _a N·m | i | F _{Ra} N | f _B | Size | | kg |
|------------|-------------------------|-----------------------|--------|----------------------|----------------|----------|----------|-----|
| 1.5 | 62 | 230 | 22.95 | 11000 | 2.15 | 72 | DT90L4 | 46 |
| | 70 | 205 | 20.16 | 10600 | 2.75 | 72 | DT90L4 | 49 |
| | 33 | 435 | 42.98 | 5340 | 0.80 | 63 | DT90L4 | 34 |
| | 36 | 400 | 39.27 | 5300 | 0.90 | 63 | DT90L4 | 35 |
| | 41 | 350 | 34.26 | 5230 | 1.00 | | | |
| | 47 | 305 | 30.16 | 5140 | 1.15 | | | |
| | 53 | 270 | 26.64 | 5050 | 1.30 | | | |
| | 61 | 235 | 23.23 | 4920 | 1.50 | | | |
| | 72 | 199 | 19.68 | 4770 | 1.75 | | | |
| | 86 | 167 | 16.55 | 4590 | 2.10 | | | |
| | 59 | 245 | 24.24 | 5050 | 1.00 | 62 | DT90L4 | 33 |
| | 66 | 215 | 21.41 | 4960 | 1.15 | 62 | DT90L4 | 34 |
| | 73 | 196 | 19.56 | 4840 | 1.30 | | | |
| | 83 | 173 | 17.06 | 4710 | 1.45 | | | |
| | 89 | 161 | 15.95 | 4560 | 2.05 | | | |
| | 102 | 140 | 13.91 | 4430 | 2.35 | | | |
| | 116 | 123 | 12.25 | 4290 | 2.70 | | | |
| | 85 | 169 | 16.62 | 1380 | 0.85 | 43 | DT90L4 | 25 |
| | 99 | 145 | 14.36 | 2030 | 1.00 | 43 | DT90L4 | 26 |
| | 103 | 139 | 13.72 | 2680 | 1.05 | 42 | DT90L4 | 24 |
| 118 | 121 | 12.01 | 3070 | 1.20 | 42 | DT90L4 | 26 | |
| 130 | 110 | 10.92 | 3070 | 1.30 | | | | |
| 151 | 95 | 9.40 | 2980 | 1.55 | | | | |
| 174 | 82 | 8.16 | 2890 | 1.70 | | | | |
| 195 | 73 | 7.27 | 2780 | 1.80 | | | | |
| 227 | 63 | 6.26 | 2680 | 1.90 | | | | |
| 262 | 55 | 5.43 | 2590 | 2.00 | | | | |
| 302 | 47 | 4.70 | 2500 | 2.15 | | | | |
| 197 | 73 | 13.72 | 2800 | 2.00 | 42 | DT90S2 | 23 | |
| 225 | 64 | 12.01 | 2710 | 2.25 | 42 | DT90S2 | 25 | |
| 247 | 58 | 10.92 | 2650 | 2.50 | | | | |
| 287 | 50 | 9.40 | 2550 | 2.90 | | | | |
| 2.2 | 5.4 | 3820 | 176.89 | 29700 | 1.05 | 103 | DV112M6 | 189 |
| | 6.4 | 3230 | 143.02 | 31200 | 1.25 | 103 | DV112M6 | 178 |
| | 6.9 | 3000 | 204.1 | 31600 | 1.15 | 103 | DT100LS4 | 122 |
| | 7.9 | 2630 | 176.89 | 32200 | 1.5 | 103 | DT100LS4 | 119 |
| | 9.9 | 2100 | 143.02 | 32900 | 1.9 | | | |
| | 11 | 1910 | 127.74 | 33100 | 2.1 | | | |
| | 13 | 1620 | 112.31 | 33400 | 2.45 | | | |
| | 14 | 1500 | 100.36 | 33500 | 2.65 | | | |
| | 7.5 | 2800 | 185.28 | 20400 | 0.80 | 93 | DV100LS4 | 122 |
| | 8.5 | 2470 | 165.42 | 22500 | 0.95 | 93 | DV100LS4 | 119 |
| | 9.5 | 2210 | 148.56 | 23800 | 1.05 | | | |
| | 11 | 1910 | 132.03 | 25000 | 1.20 | | | |
| | 12 | 1750 | 114.47 | 25300 | 1.30 | | | |
| | 14 | 1500 | 101.59 | 25700 | 1.55 | | | |
| | 16 | 1310 | 85.63 | 25900 | 1.75 | | | |
| | 20 | 1050 | 69.94 | 26200 | 2.20 | | | |
| | 23 | 910 | 60.96 | 26400 | 2.55 | | | |
| | 24 | 880 | 58.06 | 26400 | 2.60 | | | |
| | 27 | 780 | 51.60 | 26100 | 2.95 | | | |
| | 15 | 1400 | 96.01 | 14600 | 0.85 | 83 | DT100LS4 | 80 |
| 17 | 1240 | 84.61 | 15600 | 0.95 | 83 | DT100LS4 | 80 | |
| 19 | 1110 | 73.15 | 16200 | 1.10 | | | | |
| 21 | 1000 | 66.15 | 16700 | 1.20 | | | | |
| 24 | 880 | 58.67 | 17200 | 1.35 | | | | |
| 27 | 780 | 52.44 | 17500 | 1.55 | | | | |
| 30 | 700 | 46.21 | 17700 | 1.70 | | | | |
| 35 | 600 | 39.95 | 18000 | 2.00 | | | | |
| 40 | 525 | 35.08 | 17300 | 2.30 | | | | |
| 49 | 430 | 28.77 | 16300 | 2.80 | | | | |



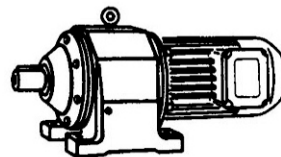
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

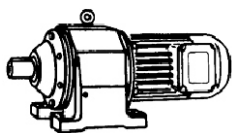
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m kw | n _a r/min | M _a N·m | i | FR _a N | f _B | Size | kg |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|----------------------------|------------|
| 2.2 | 39 | 540 | 35.95 | 17500 | 1.55 | 82 DT100LS4 | 78 |
| | 44 | 475 | 31.78 | 16900 | 2.10 | 82 DT100LS4 | 78 |
| | 49 | 430 | 28.38 | 16400 | 2.20 | | |
| | 55 | 380 | 25.49 | 15900 | 2.90 | | |
| | 32 | 655 | 44.05 | 10800 | 0.90 | 73 DT100LS4 | 50 |
| 36 | 585 | 38.43 | 11300 | 1.05 | 73 DT100LS4 | 54 | |
| 41 | 510 | 33.83 | 11700 | 1.20 | | | |
| 47 | 445 | 29.89 | 11400 | 1.35 | | | |
| 54 | 390 | 26.06 | 11000 | 1.55 | | | |
| 63 | 335 | 22.08 | 10600 | 1.80 | | | |
| 61 | 345 | 22.95 | 10500 | 1.45 | 72 DT100LS4 | 49 | |
| 69 | 305 | 20.16 | 10300 | 1.85 | 72 DT100LS4 | 52 | |
| 78 | 270 | 17.88 | 10000 | 2.05 | | | |
| 88 | 240 | 15.98 | 9670 | 2.35 | | | |
| 99 | 210 | 14.08 | 9370 | 2.65 | | | |
| 53 | 395 | 26.64 | 4450 | 0.90 | 63 DT100LS4 | 38 | |
| 60 | 350 | 23.23 | 4410 | 1.00 | 63 DT100LS4 | 39 | |
| 71 | 295 | 19.68 | 4340 | 1.20 | | | |
| 85 | 245 | 16.55 | 4240 | 1.45 | | | |
| 72 | 290 | 19.56 | 4460 | 0.85 | 62 DT100LS4 | 37 | |
| 82 | 255 | 17.06 | 4370 | 1.00 | 62 DT100LS4 | 38 | |
| 88 | 240 | 15.95 | 4200 | 1.40 | | | |
| 101 | 210 | 13.91 | 4110 | 1.55 | | | |
| 114 | 184 | 12.25 | 4030 | 1.80 | | | |
| 129 | 163 | 10.82 | 3930 | 2.00 | | | |
| 148 | 142 | 9.43 | 3820 | 2.30 | | | |
| 175 | 120 | 7.99 | 3680 | 2.75 | | | |
| 113 | 186 | 24.24 | 4120 | 1.35 | 62 DT90L2 | 33 | |
| 128 | 164 | 21.41 | 4010 | 1.50 | 62 DT90L2 | 34 | |
| 141 | 149 | 19.56 | 3930 | 1.70 | | | |
| 161 | 130 | 17.06 | 3810 | 1.90 | | | |
| 172 | 122 | 15.95 | 3700 | 2.70 | | | |
| 128 | 164 | 10.92 | 1020 | 0.90 | 42 DT100LS4 | 28 | |
| 149 | 141 | 9.40 | 1610 | 1.05 | 42 DT100LS4 | 30 | |
| 172 | 122 | 8.16 | 2060 | 1.15 | | | |
| 193 | 109 | 7.27 | 1950 | 1.20 | | | |
| 224 | 94 | 6.26 | 2310 | 1.30 | | | |
| 258 | 81 | 5.43 | 2450 | 1.35 | | | |
| 298 | 71 | 4.70 | 2370 | 1.40 | | | |
| 200 | 105 | 13.70 | 2420 | 1.40 | 42 DT90L2 | 24 | |
| 229 | 92 | 12.01 | 2540 | 1.60 | 42 DT90L2 | 26 | |
| 252 | 83 | 10.92 | 2490 | 1.75 | | | |
| 293 | 72 | 9.40 | 2410 | 2.00 | | | |
| 337 | 62 | 8.16 | 2340 | 2.25 | | | |
| 378 | 56 | 7.27 | 2250 | 2.30 | | | |
| 439 | 48 | 6.26 | 2170 | 2.50 | | | |
| 506 | 42 | 5.43 | 2090 | 2.60 | | | |
| 585 | 36 | 4.70 | 2020 | 2.80 | | | |
| 3 | 6.4 | 4410 | 143.02 | 26600 | 0.90 | 103 DV132S6 103 DV132S6 | 196 185 |



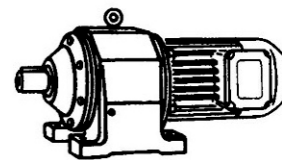
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

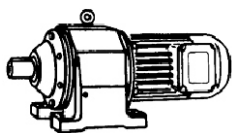
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m kw | n _a r/min | M _a N·m | i | F _{Ra} N | f _B | Size | kg | |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|---------|---------|-----|
| 3 | 6.9 | 4090 | 204.1 | 28400 | 0.85 | 103 | DT100L4 | 180 |
| | 7.9 | 3580 | 176.89 | 30500 | 1.10 | 103 | DT100L4 | 169 |
| | 9.9 | 2870 | 143.02 | 31800 | 1.40 | | | |
| | 11 | 2600 | 127.74 | 32200 | 1.55 | | | |
| | 13 | 2200 | 112.31 | 32800 | 1.80 | | | |
| | 14 | 2050 | 100.36 | 32900 | 1.95 | | | |
| | 17 | 1690 | 84.00 | 33300 | 2.35 | | | |
| | 20 | 1430 | 70.51 | 33500 | 2.80 | | | |
| | 11 | 2600 | 132.03 | 21700 | 0.90 | 93 | DT100L4 | 125 |
| | 12 | 2390 | 114.47 | 22900 | 0.95 | 93 | DT100L4 | 122 |
| | 14 | 2050 | 101.59 | 24500 | 1.10 | | | |
| | 16 | 1790 | 85.63 | 25200 | 1.30 | | | |
| | 20 | 1430 | 69.94 | 25800 | 1.60 | | | |
| | 23 | 1250 | 60.96 | 26000 | 1.85 | | | |
| | 24 | 1190 | 58.06 | 26100 | 1.95 | | | |
| | 27 | 1060 | 51.60 | 25500 | 2.15 | | | |
| | 31 | 920 | 44.74 | 24500 | 2.50 | | | |
| | 35 | 820 | 39.70 | 23700 | 2.80 | | | |
| | 21 | 1360 | 66.15 | 14900 | 0.90 | 83 | DT100L4 | 83 |
| | 24 | 1190 | 58.67 | 15800 | 1.00 | 83 | DT100L4 | 83 |
| 27 | 1060 | 52.44 | 16500 | 1.15 | | | | |
| 30 | 960 | 46.21 | 16900 | 1.25 | | | | |
| 35 | 820 | 39.95 | 17400 | 1.45 | | | | |
| 40 | 715 | 35.08 | 16800 | 1.70 | | | | |
| 49 | 585 | 28.77 | 15900 | 2.05 | | | | |
| 57 | 505 | 24.52 | 15300 | 2.40 | | | | |
| 39 | 735 | 35.95 | 17000 | 1.15 | 82 | DT100L4 | 81 | |
| 44 | 650 | 31.78 | 16500 | 1.55 | 82 | DT100L4 | 81 | |
| 49 | 585 | 28.38 | 16000 | 1.60 | | | | |
| 55 | 520 | 25.49 | 15500 | 2.10 | | | | |
| 62 | 460 | 22.65 | 15000 | 2.40 | | | | |
| 71 | 405 | 19.64 | 14400 | 2.70 | | | | |
| 41 | 700 | 33.83 | 10500 | 0.85 | 73 | DT100L4 | 54 | |
| 47 | 610 | 29.89 | 10800 | 1.00 | 73 | DT100L4 | 58 | |
| 54 | 530 | 26.06 | 10500 | 1.15 | | | | |
| 63 | 455 | 22.08 | 10100 | 1.30 | | | | |
| 61 | 470 | 22.95 | 7880 | 1.05 | 72 | DT100L4 | 53 | |
| 69 | 415 | 20.16 | 8310 | 1.35 | 72 | DT100L4 | 56 | |
| 78 | 365 | 17.88 | 8670 | 1.55 | | | | |
| 88 | 325 | 15.98 | 8860 | 1.70 | | | | |
| 99 | 290 | 14.08 | 8980 | 1.95 | | | | |
| 115 | 250 | 12.17 | 8740 | 2.25 | | | | |
| 127 | 225 | 11.00 | 8480 | 2.45 | | | | |
| 144 | 199 | 9.69 | 8190 | 2.50 | | | | |
| 71 | 405 | 19.68 | 2810 | 0.85 | 63 | DT100L4 | 41 | |
| 85 | 335 | 16.55 | 3810 | 1.05 | 63 | DT100L4 | 42 | |
| 88 | 325 | 15.95 | 3800 | 1.00 | 62 | DT100L4 | 40 | |
| 101 | 285 | 13.91 | 3750 | 1.15 | 62 | DT100L4 | 41 | |
| 114 | 250 | 12.25 | 3710 | 1.30 | | | | |
| 129 | 220 | 10.82 | 3660 | 1.50 | | | | |
| 148 | 194 | 9.43 | 3570 | 1.70 | | | | |
| 175 | 164 | 7.99 | 3470 | 2.00 | | | | |
| 208 | 138 | 6.72 | 3360 | 2.40 | | | | |
| 230 | 125 | 6.09 | 3280 | 2.00 | | | | |
| 271 | 106 | 5.16 | 3170 | 2.35 | | | | |
| 323 | 89 | 4.34 | 3040 | 2.45 | | | | |



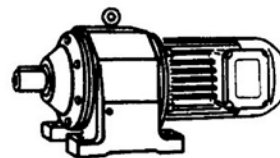
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

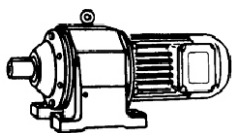
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m | n _a | M _a | i | FR _a | f _B | Size | | kg |
|----------------|----------------|----------------|--------|-----------------|----------------|---------|---------|-----|
| kw | r/min | Nm | | N | | | | |
| 3 | 143 | 200 | 19.56 | 3680 | 1.25 | 62 | DT100L2 | 40 |
| | 164 | 175 | 17.06 | 3590 | 1.45 | | DT100L2 | 41 |
| | 176 | 163 | 15.95 | 3470 | 2.00 | | | |
| | 201 | 143 | 13.91 | 3380 | 2.30 | | | |
| | 229 | 125 | 12.25 | 3290 | 2.65 | | | |
| | 259 | 111 | 10.82 | 3200 | 2.95 | | | |
| | 172 | 167 | 8.16 | 147 | 0.85 | 42 | DT100L4 | 30 |
| | 193 | 148 | 7.27 | 161 | 0.90 | 42 | DT100L4 | 32 |
| | 224 | 128 | 6.26 | 745 | 0.95 | | | |
| | 258 | 111 | 5.43 | 1220 | 1.00 | | | |
| | 298 | 96 | 4.70 | 1610 | 1.05 | | | |
| | 256 | 112 | 10.92 | 1580 | 1.30 | 42 | DT100L2 | 30 |
| | 298 | 96 | 9.40 | 1950 | 1.50 | 42 | DT100L2 | 32 |
| | 343 | 84 | 8.16 | 2180 | 1.65 | | | |
| 385 | 74 | 7.27 | 2130 | 1.75 | | | | |
| 447 | 64 | 6.26 | 2060 | 1.90 | | | | |
| 516 | 56 | 5.43 | 1990 | 1.95 | | | | |
| 596 | 48 | 4.70 | 1930 | 2.10 | | | | |
| 698 | 41 | 4.01 | 1860 | 2.20 | | | | |
| 4 | 7.9 | 4780 | 176.89 | 24100 | 0.85 | 103 | DV112M4 | 189 |
| | 9.9 | 3820 | 143.02 | 29700 | 1.05 | 103 | DV112M4 | 178 |
| | 11 | 3470 | 127.74 | 30700 | 1.15 | | | |
| | 13 | 2940 | 112.31 | 31700 | 1.35 | | | |
| | 14 | 2730 | 100.36 | 32000 | 1.45 | | | |
| | 17 | 2250 | 84.00 | 32700 | 1.80 | | | |
| | 20 | 1910 | 70.51 | 33100 | 2.10 | | | |
| | 23 | 1660 | 62.18 | 33000 | 2.40 | | | |
| | 27 | 1410 | 52.11 | 31600 | 2.85 | | | |
| | 14 | 2730 | 101.59 | 20900 | 0.85 | 93 | DV112M4 | 136 |
| | 17 | 2250 | 85.63 | 23600 | 1.00 | 93 | DV112M4 | 133 |
| | 20 | 1910 | 69.94 | 25000 | 1.20 | | | |
| | 23 | 1660 | 60.96 | 25500 | 1.40 | | | |
| | 24 | 1590 | 58.06 | 25500 | 1.45 | | | |
| | 28 | 1360 | 51.60 | 24500 | 1.70 | | | |
| | 32 | 1190 | 44.74 | 23700 | 1.95 | | | |
| | 36 | 1060 | 39.70 | 22900 | 2.15 | | | |
| | 42 | 910 | 33.47 | 22000 | 2.55 | | | |
| | 48 | 795 | 29.66 | 21200 | 1.90 | 92 | DV112M4 | 131 |
| | 54 | 705 | 26.49 | 20500 | 2.00 | 92 | DV112M4 | 128 |
| | 27 | 1410 | 52.44 | 13000 | 0.85 | 83 | DV112M4 | 92 |
| | 31 | 1230 | 46.21 | 14300 | 1.00 | 83 | DV112M4 | 92 |
| | 36 | 1060 | 39.95 | 15400 | 1.15 | | | |
| | 41 | 960 | 35.08 | 15900 | 1.25 | | | |
| | 49 | 780 | 28.77 | 15400 | 1.55 | | | |
| | 58 | 660 | 24.52 | 14800 | 1.80 | | | |
| | 45 | 850 | 31.78 | 15800 | 1.20 | 82 | DV112M4 | 90 |
| | 50 | 765 | 28.38 | 15400 | 1.25 | 82 | DV112M4 | 90 |
| | 56 | 680 | 25.49 | 15000 | 1.60 | | | |
| | 63 | 605 | 22.65 | 14500 | 1.80 | | | |
| | 72 | 530 | 19.64 | 14000 | 2.10 | | | |
| | 81 | 470 | 17.43 | 13600 | 2.35 | | | |
| 97 | 395 | 14.69 | 12900 | 2.80 | | | | |
| 54 | 705 | 26.06 | 9870 | 0.85 | 73 | DV112M4 | 64 | |
| 64 | 595 | 22.08 | 9580 | 1.00 | 73 | DV112M4 | 68 | |



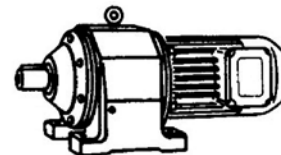
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

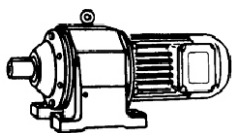
fB - service factor

i - gear ratio

na - output rpm



| Pm kw | na r/min | Ma N·m | i | FRa N | fB | Size | | kg |
|------------|-------------|-----------|--------|----------|------|------|---------|-----|
| 4 | 70 | 545 | 20.16 | 5540 | 1.05 | 72 | DV112M4 | 63 |
| | 79 | 485 | 17.88 | 6120 | 1.15 | 72 | DV112M4 | 66 |
| | 89 | 430 | 15.98 | 6630 | 1.30 | | | |
| | 101 | 380 | 14.08 | 7020 | 1.45 | | | |
| | 117 | 325 | 12.17 | 7450 | 1.70 | | | |
| | 129 | 295 | 11.00 | 7210 | 1.85 | | | |
| | 147 | 260 | 9.69 | 7400 | 1.90 | | | |
| | 169 | 225 | 8.38 | 7570 | 2.45 | | | |
| | 193 | 198 | 7.36 | 7370 | 2.25 | | | |
| | 235 | 163 | 6.04 | 6980 | 2.75 | | | |
| | 102 | 375 | 13.91 | 2030 | 0.90 | 62 | DV112M4 | 51 |
| | 116 | 330 | 12.25 | 2790 | 1.00 | 62 | DV112M4 | 52 |
| | 131 | 290 | 10.82 | 3300 | 1.15 | | | |
| | 151 | 255 | 9.43 | 3250 | 1.30 | | | |
| | 178 | 215 | 7.99 | 3200 | 1.55 | | | |
| | 211 | 181 | 6.72 | 3130 | 1.80 | | | |
| | 233 | 164 | 6.09 | 3080 | 1.50 | | | |
| | 275 | 139 | 5.16 | 2990 | 1.80 | | | |
| | 327 | 117 | 4.34 | 2890 | 1.90 | | | |
| 5.5 | 11 | 4780 | 127.74 | 24100 | 0.85 | 103 | DV132S4 | 196 |
| | 13 | 4040 | 112.31 | 28700 | 1.00 | 103 | DV132S4 | 185 |
| | 14 | 3750 | 100.36 | 30100 | 1.05 | | | |
| | 17 | 3090 | 84.00 | 31500 | 1.30 | | | |
| | 20 | 2630 | 70.51 | 32200 | 1.50 | | | |
| | 23 | 2280 | 62.18 | 31800 | 1.75 | | | |
| | 27 | 1950 | 52.11 | 30500 | 2.05 | | | |
| | 30 | 1750 | 48.51 | 29700 | 2.30 | | | |
| | 35 | 1500 | 40.59 | 28600 | 2.65 | | | |
| | 20 | 2630 | 69.94 | 21600 | 0.85 | 93 | DV132S4 | 142 |
| | 23 | 2280 | 60.96 | 23500 | 1.00 | 93 | DV132S4 | 139 |
| | 25 | 2100 | 58.06 | 24000 | 1.10 | | | |
| | 28 | 1880 | 51.60 | 23400 | 1.20 | | | |
| | 32 | 1640 | 44.74 | 22700 | 1.40 | | | |
| | 36 | 1460 | 39.70 | 22100 | 1.60 | | | |
| | 43 | 1220 | 33.47 | 21100 | 1.90 | | | |
| | 52 | 1010 | 27.33 | 20100 | 2.30 | | | |
| | 60 | 880 | 23.82 | 19400 | 2.60 | | | |
| | 48 | 1090 | 29.66 | 20600 | 1.40 | 92 | DV132S4 | 137 |
| | 54 | 970 | 26.49 | 20000 | 1.45 | 92 | DV132S4 | 134 |
| | 62 | 850 | 23.25 | 19200 | 2.45 | | | |
| | 69 | 760 | 20.77 | 18700 | 2.75 | | | |
| | 36 | 1460 | 39.95 | 14200 | 0.80 | 83 | DV132S4 | 98 |
| | 41 | 1280 | 35.08 | 15200 | 0.95 | 83 | DV132S4 | 98 |
| | 50 | 1050 | 28.77 | 14600 | 1.15 | | | |
| | 58 | 910 | 24.52 | 14100 | 1.30 | | | |
| | 56 | 940 | 25.49 | 13600 | 1.15 | 82 | DV132S4 | 96 |
| | 63 | 830 | 22.65 | 14000 | 1.35 | 82 | DV132S4 | 96 |
| | 73 | 720 | 19.64 | 13500 | 1.55 | | | |
| | 82 | 640 | 17.43 | 13100 | 1.70 | | | |
| | 97 | 540 | 13.69 | 12600 | 2.05 | | | |
| | 124 | 425 | 11.51 | 11700 | 2.60 | | | |
| | 140 | 375 | 10.22 | 11300 | 0.95 | | | |
| 166 | 315 | 8.61 | 10800 | 2.70 | | | | |
| 203 | 260 | 7.03 | 10200 | 2.70 | | | | |



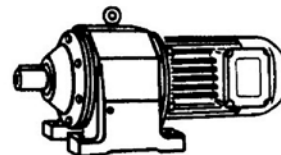
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

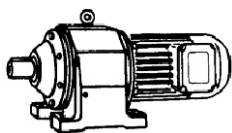
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m kw | n _a r/min | M _a N·m | i | F _{Ra} N | f _B | Size | kg |
|----------------------|-------------------------|-----------------------|--------|----------------------|----------------|-------------|-----|
| 5.5 | 89 | 590 | 15.98 | 8420 | 0.95 | 72 DV132S4 | 70 |
| | 102 | 515 | 14.08 | 8210 | 1.10 | 72 DV132S4 | 73 |
| | 118 | 445 | 12.17 | 7980 | 1.25 | | |
| | 130 | 405 | 11.00 | 7750 | 1.35 | | |
| | 148 | 355 | 9.69 | 7540 | 1.40 | | |
| | 171 | 305 | 8.38 | 7310 | 1.80 | | |
| | 194 | 270 | 7.36 | 6020 | 1.65 | | |
| | 237 | 220 | 6.04 | 6350 | 2.05 | | |
| | 278 | 189 | 5.15 | 6450 | 2.40 | | |
| | 152 | 345 | 9.43 | 1290 | 0.95 | 62 DV132S4 | 56 |
| | 179 | 295 | 7.99 | 2140 | 1.10 | 62 DV132S4 | 57 |
| | 213 | 245 | 6.72 | 2810 | 1.35 | | |
| | 235 | 225 | 6.09 | 2530 | 1.10 | | |
| | 277 | 190 | 5.16 | 2740 | 1.30 | | |
| | 329 | 160 | 4.34 | 2680 | 1.40 | | |
| | 305 | 172 | 9.43 | 2710 | 1.90 | 62 DV132S2 | 56 |
| | 360 | 146 | 7.99 | 2650 | 2.25 | 62 DV132S2 | 57 |
| | 429 | 122 | 6.72 | 2570 | 2.70 | | |
| 473 | 111 | 6.09 | 2520 | 2.25 | | | |
| 558 | 94 | 5.16 | 2440 | 2.65 | | | |
| 664 | 79 | 4.34 | 2350 | 2.80 | | | |
| 7.5 | 15 | 4780 | 100.36 | 24100 | 0.85 | 103 DV132M4 | 216 |
| | 17 | 4210 | 84.00 | 27700 | 0.95 | 103 DV132M4 | 205 |
| | 21 | 3410 | 70.51 | 30700 | 1.15 | | |
| | 23 | 3110 | 62.18 | 30200 | 1.30 | | |
| | 28 | 2560 | 52.11 | 29000 | 1.55 | | |
| | 30 | 2390 | 48.51 | 28500 | 1.65 | | |
| | 36 | 1990 | 40.59 | 27300 | 2.00 | | |
| | 43 | 1670 | 34.07 | 26200 | 2.40 | | |
| | 48 | 1490 | 30.05 | 25400 | 2.70 | | |
| | 51 | 1400 | 28.49 | 25100 | 2.35 | 102 DV132M4 | 209 |
| | 58 | 1230 | 25.09 | 24200 | 2.45 | 102 DV132M4 | 197 |
| | 25 | 2870 | 58.06 | 19900 | 0.80 | 93 DV132M4 | 162 |
| | 28 | 2560 | 51.60 | 21900 | 0.90 | 93 DV132M4 | 159 |
| | 32 | 2240 | 44.74 | 21400 | 1.05 | | |
| | 37 | 1940 | 39.70 | 20800 | 1.20 | | |
| | 43 | 1670 | 33.47 | 20200 | 1.40 | | |
| | 53 | 1350 | 27.33 | 19300 | 1.70 | | |
| | 61 | 1170 | 23.82 | 18600 | 1.95 | | |
| | 74 | 970 | 19.57 | 17800 | 2.35 | | |
| | 49 | 1460 | 29.66 | 19700 | 1.05 | 92 DV132M4 | 157 |
| | 55 | 1300 | 26.49 | 19100 | 1.10 | 92 DV132M4 | 154 |
| | 62 | 1160 | 23.25 | 18600 | 1.80 | | |
| | 70 | 1020 | 20.77 | 18000 | 2.05 | | |
| | 82 | 870 | 17.58 | 17300 | 2.40 | | |
| | 98 | 730 | 14.75 | 16500 | 2.90 | | |
| | 50 | 1430 | 28.77 | 13600 | 0.85 | 83 DV132M4 | 120 |
| | 59 | 1210 | 24.52 | 13200 | 1.00 | 83 DV132M4 | 120 |



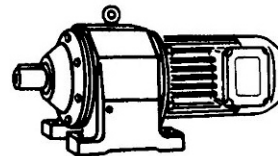
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

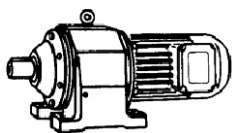
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m kw | n _a r/min | M _a N·m | i | F _{Ra} N | f _B | Size | kg | |
|----------------------|-------------------------|-----------------------|-------|----------------------|----------------|--------------|--------------|-----|
| 7.5 | 57 | 1260 | 25.49 | 8410 | 0.85 | 82 DV132M4 | 118 | |
| | 64 | 1120 | 22.65 | 9530 | 1.00 | 82 DV132M4 | 118 | |
| | 74 | 970 | 19.64 | 10600 | 1.15 | | | |
| | 83 | 860 | 17.43 | 11400 | 1.30 | | | |
| | 99 | 725 | 14.69 | 12000 | 1.50 | | | |
| | 126 | 570 | 11.51 | 11200 | 1.95 | | | |
| | 142 | 505 | 10.22 | 10900 | 2.20 | | | |
| | 168 | 425 | 8.61 | 10400 | 2.00 | | | |
| | 206 | 350 | 7.03 | 9860 | 2.00 | | | |
| | 237 | 300 | 6.13 | 9510 | 2.35 | | | |
| | 288 | 250 | 5.04 | 8990 | 2.40 | | | |
| | | 103 | 695 | 14.08 | 7560 | 0.80 | 72 DV132M4 | |
| | | 119 | 600 | 12.17 | 7420 | 0.95 | 72 DV132M4 | |
| | 132 | 545 | 11.00 | 7190 | 1.00 | | | |
| | 150 | 480 | 9.69 | 7040 | 1.05 | | | |
| | 173 | 415 | 8.38 | 6870 | 1.35 | | | |
| | 197 | 365 | 7.36 | 3860 | 1.25 | | | |
| | 240 | 300 | 6.04 | 4530 | 1.50 | | | |
| | 282 | 255 | 5.15 | 4940 | 1.75 | | | |
| 9.2 | 20 | 4390 | 70.51 | 26700 | 0.90 | 103 DV132ML4 | 225 | |
| | 23 | 3820 | 62.18 | 28800 | 1.05 | 103 DV132ML4 | 214 | |
| | 28 | 3140 | 52.11 | 27800 | 1.25 | | | |
| | 30 | 2930 | 48.51 | 27500 | 1.35 | | | |
| | 35 | 2510 | 40.59 | 26600 | 1.60 | | | |
| | 42 | 2090 | 34.07 | 25600 | 1.90 | | | |
| | 48 | 1830 | 30.05 | 24800 | 2.20 | | | |
| | 57 | 1540 | 25.18 | 23800 | 2.60 | | | |
| | | 51 | 1720 | 28.49 | 24500 | 1.90 | 102 DV132ML4 | 218 |
| | | 57 | 1540 | 25.09 | 23800 | 1.95 | 102 DV132ML4 | 206 |
| | | 68 | 1960 | 21.11 | 22700 | 2.70 | | |
| | | 32 | 2750 | 44.74 | 20300 | 0.85 | 93 DV132ML4 | 172 |
| | | 36 | 2440 | 39.70 | 20000 | 0.95 | 93 DV132ML4 | 169 |
| | | 43 | 2040 | 33.47 | 19400 | 1.15 | | |
| | | 53 | 1660 | 27.33 | 18600 | 1.40 | | |
| | | 60 | 1460 | 23.82 | 18100 | 1.60 | | |
| | | 74 | 1190 | 19.57 | 17300 | 1.95 | | |
| | | 62 | 1420 | 23.25 | 18000 | 1.50 | 92 DV132ML4 | 167 |
| | | 69 | 1270 | 20.77 | 17600 | 1.65 | 92 DV132ML4 | 164 |
| | | 82 | 1070 | 17.58 | 16900 | 1.95 | | |
| | | 98 | 900 | 14.75 | 16200 | 2.35 | | |
| | | 111 | 790 | 13.01 | 15700 | 2.65 | | |
| | | 73 | 1200 | 19.64 | 12300 | 0.90 | 82 DV132ML4 | 127 |
| | | 83 | 1060 | 17.43 | 12000 | 1.05 | 82 DV132ML4 | 127 |
| | | 98 | 900 | 14.69 | 11600 | 1.20 | | |
| | | 125 | 705 | 11.51 | 10800 | 1.55 | | |
| | | 141 | 625 | 10.22 | 10600 | 1.75 | | |
| | | 167 | 525 | 8.61 | 10200 | 1.60 | | |
| | | 205 | 430 | 7.03 | 9660 | 1.65 | | |
| | | 235 | 375 | 6.13 | 9330 | 1.85 | | |
| | | 286 | 305 | 5.04 | 8860 | 1.95 | | |
| | | 172 | 510 | 8.38 | 6540 | 1.10 | 72 DV132ML4 | 100 |
| | | 196 | 450 | 7.36 | 6400 | 1.00 | 72 DV132ML4 | 103 |
| | 238 | 370 | 6.04 | 6190 | 1.20 | | | |
| | 280 | 315 | 5.15 | 5990 | 1.45 | | | |



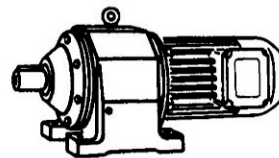
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

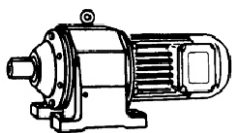
f_B - service factor

i - gear ratio

n_a - output rpm



| P _m kw | n _a r/min | M _a N·m | i | F _{Ra} N | f _B | Size | kg |
|----------------------|-------------------------|-----------------------|-------|----------------------|----------------|-------------|-----|
| 11 | 23 | 4570 | 62.18 | 25600 | 0.90 | 103 DV160M4 | 229 |
| | 28 | 3750 | 52.11 | 26700 | 1.05 | 103 DV160M4 | 218 |
| | 30 | 3500 | 48.51 | 26400 | 1.15 | | |
| | 35 | 3000 | 40.59 | 25700 | 1.35 | | |
| | 42 | 2500 | 34.07 | 24800 | 1.60 | | |
| | 48 | 2190 | 30.05 | 24100 | 1.85 | | |
| | 57 | 1840 | 25.18 | 23200 | 2.15 | | |
| | 69 | 1520 | 20.78 | 22200 | 2.65 | | |
| | 51 | 2060 | 28.49 | 23800 | 1.60 | 102 DV160M4 | 222 |
| | 57 | 1840 | 25.09 | 23200 | 1.65 | 102 DV160M4 | 210 |
| 68 | 1540 | 21.11 | 22300 | 2.25 | | | |
| 80 | 1310 | 17.93 | 21400 | 2.65 | | | |
| 90 | 1170 | 16.08 | 20700 | 3.00 | | | |
| 43 | 2440 | 33.47 | 18600 | 0.95 | 93 DV160M4 | 176 | |
| 53 | 1980 | 27.33 | 17900 | 1.15 | 93 DV160M4 | 173 | |
| 60 | 1750 | 23.82 | 17500 | 1.30 | | | |
| 74 | 1420 | 19.57 | 16800 | 1.60 | | | |
| 62 | 1690 | 23.25 | 17500 | 1.25 | 92 DV160M4 | 171 | |
| 69 | 1520 | 20.77 | 17100 | 1.40 | 92 DV160M4 | 168 | |
| 82 | 1280 | 17.58 | 16500 | 1.65 | | | |
| 98 | 1070 | 14.75 | 15800 | 1.95 | | | |
| 111 | 950 | 13.01 | 15300 | 2.20 | | | |
| 132 | 795 | 10.90 | 14700 | 2.65 | | | |
| 154 | 680 | 9.37 | 14000 | 2.35 | | | |
| 183 | 575 | 7.87 | 13400 | 2.80 | | | |
| 207 | 505 | 6.94 | 12900 | 2.95 | | | |
| 83 | 1270 | 17.43 | 11400 | 0.85 | 82 DV160M4 | 131 | |
| 98 | 1070 | 14.69 | 11200 | 1.05 | 82 DV160M4 | 131 | |
| 125 | 840 | 11.51 | 10500 | 1.30 | | | |
| 141 | 745 | 10.22 | 10200 | 1.50 | | | |
| 167 | 630 | 8.61 | 9880 | 1.35 | | | |
| 205 | 510 | 7.03 | 9440 | 1.35 | | | |
| 235 | 445 | 6.13 | 9140 | 1.55 | | | |
| 286 | 365 | 5.04 | 8700 | 1.65 | | | |
| 15 | 30 | 4780 | 48.51 | 23900 | 0.85 | 103 DV160L4 | 294 |
| | 36 | 3980 | 40.59 | 23500 | 1.00 | 103 DV160L4 | 283 |
| | 43 | 3330 | 34.07 | 22900 | 1.20 | | |
| | 49 | 2920 | 30.05 | 22500 | 1.35 | | |
| | 58 | 2470 | 25.18 | 21800 | 1.60 | | |
| | 70 | 2050 | 20.78 | 21000 | 1.95 | | |
| | 51 | 2810 | 28.49 | 22400 | 1.15 | 102 DV160L4 | 287 |
| | 58 | 2470 | 25.09 | 21900 | 1.20 | 102 DV160L4 | 275 |
| | 69 | 2080 | 21.11 | 21100 | 1.70 | | |
| | 81 | 1770 | 17.93 | 20400 | 2.00 | | |
| 91 | 1570 | 16.08 | 19900 | 2.25 | | | |
| 104 | 1380 | 14.02 | 19200 | 2.55 | | | |
| 113 | 1270 | 12.92 | 18900 | 2.75 | | | |
| 53 | 2700 | 27.33 | 16400 | 0.85 | 93 DV160L4 | 241 | |
| 61 | 2350 | 23.82 | 16100 | 1.00 | 93 DV160L4 | 238 | |
| 75 | 1910 | 19.57 | 15700 | 1.20 | | | |
| 63 | 2270 | 23.25 | 16100 | 0.95 | 92 DV160L4 | 236 | |
| 70 | 2050 | 20.77 | 15900 | 1.00 | 92 DV160L4 | 233 | |
| 83 | 1730 | 17.58 | 15400 | 1.20 | | | |
| 99 | 1450 | 14.75 | 14900 | 1.45 | | | |
| 112 | 1280 | 13.01 | 14600 | 1.65 | | | |



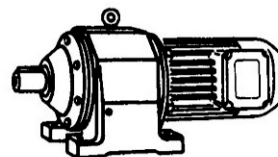
BH SERIES SELECTION & PERFORMANCE TABLE

Code:

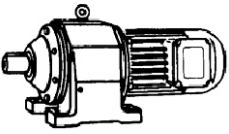
f_B - service factor

i - gear ratio

n_a - output rpm

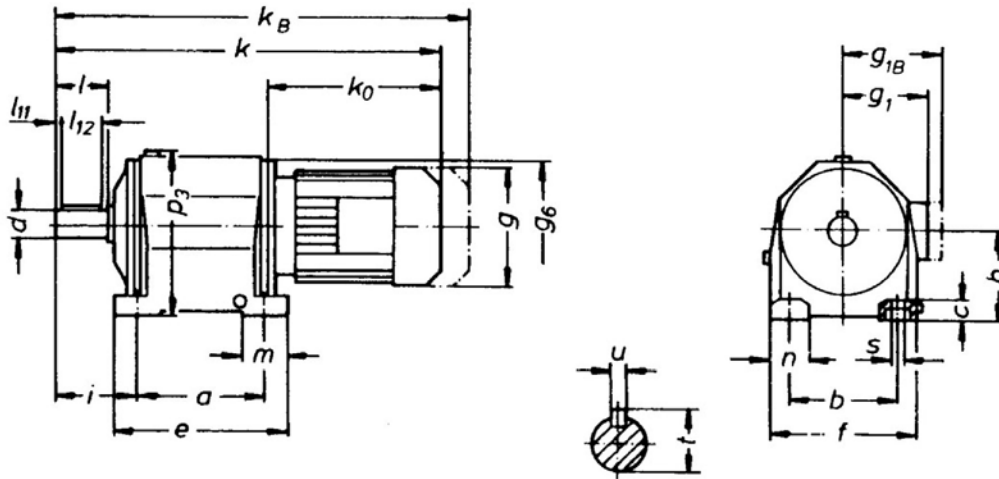


| P _m kw | n _a r/min | M _a N·m | i | FR _a N | f _B | Size | kg | | |
|----------------------|-------------------------|-----------------------|-------|----------------------|----------------|------|---------|---------|-----|
| 15 | 134 | 1070 | 10.90 | 14000 | 1.95 | 92 | DV160L4 | 236 | |
| | 156 | 920 | 9.37 | 13400 | 1.75 | 92 | DV160L4 | 233 | |
| | 186 | 770 | 7.87 | 12900 | 2.10 | | | | |
| | 210 | 680 | 6.94 | 12500 | 2.20 | | | | |
| | 251 | 570 | 5.82 | 11900 | 2.65 | | | | |
| | | 127 | 1130 | 11.51 | 9610 | 0.95 | 82 | DV160L4 | 194 |
| | | 143 | 1000 | 10.22 | 9470 | 1.10 | 82 | DV160L4 | 194 |
| | | 170 | 840 | 8.61 | 9230 | 1.00 | | | |
| | | 208 | 690 | 7.03 | 8890 | 1.00 | | | |
| | | 238 | 600 | 6.13 | 8660 | 1.15 | | | |
| | | 290 | 495 | 5.04 | 8300 | 1.20 | | | |
| | 18.5 | 36 | 4910 | 40.59 | 21700 | 0.80 | 103 | DV180M4 | 320 |
| | | 43 | 4110 | 34.07 | 21400 | 0.95 | 103 | DV180M4 | 309 |
| | | 49 | 3610 | 30.05 | 21200 | 1.10 | | | |
| 58 | | 3050 | 25.18 | 20700 | 1.30 | | | | |
| 71 | | 2490 | 20.78 | 20000 | 1.60 | | | | |
| | | 69 | 2560 | 21.11 | 20200 | 1.35 | 102 | DV180M4 | 313 |
| | | 82 | 2150 | 17.93 | 19600 | 1.65 | 102 | DV180M4 | 301 |
| | | 91 | 1940 | 16.08 | 19200 | 1.80 | | | |
| | | 104 | 1700 | 14.02 | 18600 | 2.05 | | | |
| | | 113 | 1560 | 12.92 | 18300 | 2.25 | | | |
| | | 131 | 1350 | 11.17 | 17700 | 2.60 | | | |
| | | 162 | 1090 | 9.05 | 16900 | 2.45 | | | |
| | | 185 | 960 | 7.90 | 16300 | 2.65 | | | |
| | | 202 | 870 | 7.27 | 16000 | 2.75 | | | |
| | | 233 | 760 | 6.29 | 15300 | 2.75 | | | |
| | | 75 | 2360 | 19.57 | 14700 | 0.95 | 93 | DV180M4 | 267 |
| | | | | | | | 93 | DV180M4 | 264 |
| | | 83 | 2130 | 17.58 | 14600 | 1.00 | 92 | DV180M4 | 262 |
| | | 99 | 1780 | 14.75 | 14200 | 1.20 | 92 | DV180M4 | 259 |
| | | 113 | 1560 | 13.01 | 13900 | 1.35 | | | |
| | | 134 | 1320 | 10.90 | 13500 | 1.60 | | | |
| | | 156 | 1130 | 9.37 | 12900 | 1.40 | | | |
| | | 186 | 950 | 7.87 | 12500 | 1.70 | | | |
| | | 211 | 840 | 6.94 | 12100 | 1.80 | | | |
| | 252 | 700 | 5.82 | 11600 | 2.15 | | | | |
| | 305 | 580 | 4.80 | 11100 | 2.35 | | | | |
| 22 | 43 | 4890 | 34.07 | 19900 | 0.80 | 103 | DV180L4 | 334 | |
| | 49 | 4290 | 30.05 | 19800 | 0.95 | 103 | DV180L4 | 323 | |
| | 58 | 3620 | 25.18 | 19600 | 1.10 | | | | |
| | 71 | 2960 | 20.78 | 19100 | 1.35 | | | | |
| | | 69 | 3040 | 21.11 | 19300 | 1.15 | 102 | DV180L4 | 327 |
| | | 82 | 2560 | 17.93 | 18800 | 1.35 | 102 | DV180L4 | 315 |
| | | 91 | 2310 | 16.08 | 18500 | 1.50 | | | |
| | | 104 | 2020 | 14.02 | 18000 | 1.75 | | | |
| | | 113 | 1860 | 12.92 | 17700 | 1.90 | | | |
| | | 131 | 1600 | 11.17 | 17200 | 2.20 | | | |
| | | 162 | 1300 | 9.05 | 16500 | 2.05 | | | |
| | | 185 | 1140 | 7.90 | 16000 | 2.25 | | | |
| | | 202 | 1040 | 7.27 | 15600 | 2.30 | | | |
| | | 233 | 900 | 6.29 | 15100 | 2.35 | | | |
| | | 83 | 2530 | 17.58 | 13800 | 0.85 | 92 | DV180L4 | 276 |
| | | 99 | 2120 | 14.75 | 13500 | 1.00 | 92 | DV180L4 | 273 |
| | | 113 | 1860 | 13.01 | 13000 | 1.15 | | | |
| | | 134 | 1570 | 10.90 | 13000 | 1.35 | | | |



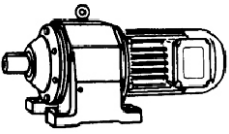
BH SERIES INSTALLATION DIMENSIONS

Foot mounted helical gear box with motor mounting flange



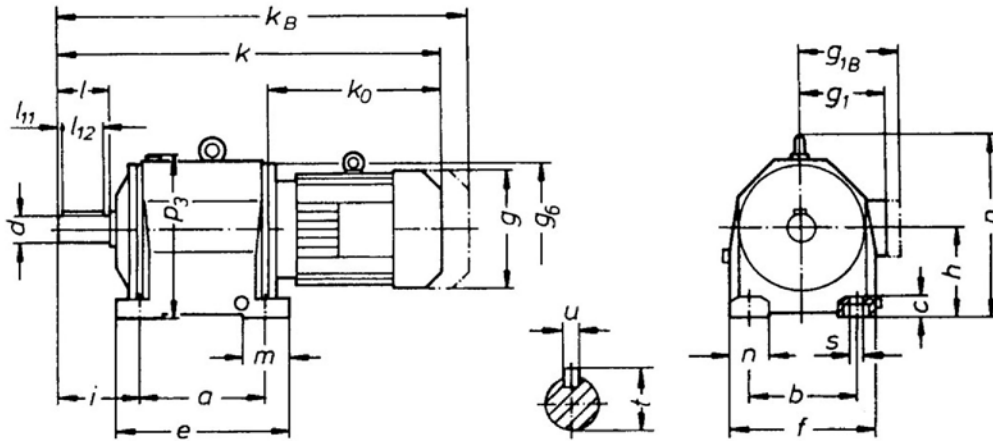
| Size | a | b | c | e | f | g | g ₁ | g _{1B} | g ₆ | h | i | k | k _B | k ₀ | m | n | p ₃ | s | d | l ₁₁ | t | |
|------|---------|-----|-----|----|-----|-----|----------------|-----------------|----------------|-----|---------------------|-----|----------------|----------------|-----|----|----------------|-----|----|-----------------|------|--|
| | | | | | | | | | | | | | | | | | | | l | l ₁₂ | u | |
| 32 | D63.. | | | | | 127 | 95 | 95 | | | | 306 | 338 | 154 | | | | | 20 | 4 | 22.5 | |
| | DT71D | 85 | 110 | 12 | 110 | 135 | 145 | 121 | 127 | 134 | 75 _{-0.5} | 58 | 316 | 380 | 164 | - | 25 | 141 | 10 | | | |
| | DT80.. | | | | | | 145 | 121 | 127 | | | | 366 | 430 | 214 | | | | 40 | 32 | 6 | |
| 42 | D63.. | | | | | 127 | 95 | 95 | | | | 398 | 430 | 196 | | | | | 25 | 7 | 28 | |
| | DT71D | | | | | 145 | 121 | 127 | | | | 407 | 471 | 205 | | | | | | | | |
| | DT80.. | 130 | 110 | 20 | 160 | 145 | 145 | 121 | 127 | 120 | 90 _{-0.5} | 75 | 457 | 521 | 255 | 40 | 35 | 165 | 9 | | | |
| 43 | DT90.. | | | | | | 197 | 155 | 161 | | | | 477 | 562 | 275 | | | | | | | |
| | DT100.. | | | | | | 197 | 163 | 169 | | | | 530 | 615 | 328 | | | | 50 | 40 | 8 | |
| | D63.. | | | | | 127 | 95 | 95 | | | | 439 | 471 | 190 | | | | | 30 | 7 | 33 | |
| 62 | DT71D | | | | | 145 | 121 | 127 | | | | 448 | 512 | 199 | | | | | | | | |
| | DT80.. | | | | | 145 | 121 | 127 | | | | 498 | 562 | 249 | | | | | | | | |
| | DT90.. | 165 | 135 | 25 | 200 | 190 | 197 | 155 | 161 | 160 | 115 _{-0.5} | 90 | 518 | 603 | 269 | 60 | 55 | 206 | 14 | | | |
| 63 | DT100.. | | | | | | 197 | 163 | 169 | | | | 568 | 653 | 319 | | | | | | | |
| | DV112M | | | | | | 221 | 176 | 182 | | | | 603 | 683 | 354 | | | | | | | |
| | DV132S | | | | | | | | | | | | 651 | 731 | 402 | | | | 60 | 50 | 8 | |

Check dimension g/2 in comparison to h
 Dimensions k_B refer to DC motors
 Dimensions g_{1B} refer to "Increased Safety" motors



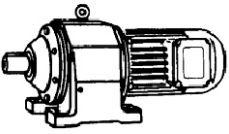
BH SERIES INSTALLATION DIMENSIONS

Foot mounted helical gear box with motor mounting flange



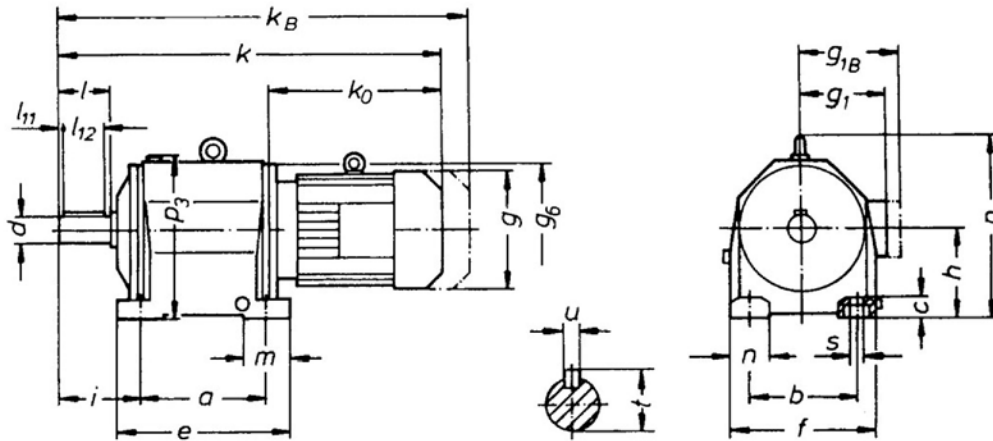
| Size | a | b | c | e | f | g | g ₁ | g _{1B} | g ₆ | h | i | k | k _B | k ₀ | m | n | p | s | d | l | l ₁₁ | t | |
|---------|---------|-----|-----|----|-----|-----|----------------|-----------------|----------------|-----|-----|-----|----------------|----------------|-----|----|----------------|---|-----|----|-----------------|---|--|
| | | | | | | | | | | | | | | | | | p ₃ | | | | l ₁₂ | u | |
| 73 | D63.. | | | | | 127 | 95 | 95 | | | | 484 | 516 | 184 | | | 287 | | 40 | 5 | 43 | | |
| | DT71D | | | | | | | | | | | 493 | 557 | 193 | | | | | | | | | |
| | DT80.. | | | | | 145 | 121 | 127 | | | | 543 | 607 | 243 | | | | | | | | | |
| | DT90.. | | | | | | 155 | 161 | | | | 561 | 646 | 261 | | | | | | | | | |
| | DT100.. | | | | | | 197 | 163 | 169 | | | 611 | 696 | 311 | | | | | | | | | |
| | DV112M | 205 | 170 | 30 | 245 | 230 | | | | 200 | 140 | 115 | 647 | 727 | 347 | 70 | 60 | | 18 | | | | |
| | DV132S | | | | | | 221 | 176 | 182 | | | | 692 | 772 | 392 | | | | | | | | |
| DV132M | | | | | | | | | | | | 712 | 824 | 412 | | | | | | | | | |
| DV132ML | | | | | | 275 | 230 | 230 | | | | 772 | 884 | 472 | | | 251 | | 80 | 70 | 12 | | |
| 82 | DT80.. | | | | | 145 | 121 | 127 | | | | 613 | 677 | 238 | | | 361 | | 50 | 10 | 53.5 | | |
| | DT90.. | | | | | | 155 | 161 | | | | 632 | 717 | 257 | | | | | | | | | |
| | DT100.. | | | | | | 197 | 163 | 169 | | | 682 | 767 | 307 | | | | | | | | | |
| | DV112M | | | | | | | | | | | 717 | 797 | 342 | | | | | | | | | |
| | DV132S | 260 | 215 | 45 | 310 | 290 | 221 | 176 | 182 | 250 | 180 | 140 | 762 | 842 | 387 | 90 | 75 | | 18 | | | | |
| | DV132M | | | | | | | | | | | | 782 | 894 | 407 | | | | | | | | |
| | DV132ML | | | | | | 275 | 230 | 230 | | | | 842 | 954 | 467 | | | | | | | | |
| DV160M | | | | | | | | | | | | 890 | 1046 | 515 | | | 316 | | 100 | 80 | 14 | | |
| DV160L | | | | | | 331 | 253 | 253 | | | | | | | | | | | | | | | |

Check dimension g/2 in comparison to h
 Dimensions k_B refer to DC motors
 Dimensions g_{1B} refer to "Increased Safety" motors



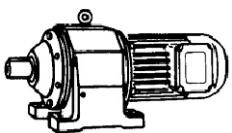
BH SERIES INSTALLATION DIMENSIONS

Foot mounted helical gear box with motor mounting flange



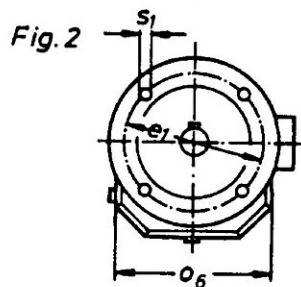
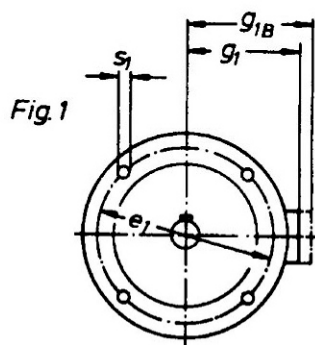
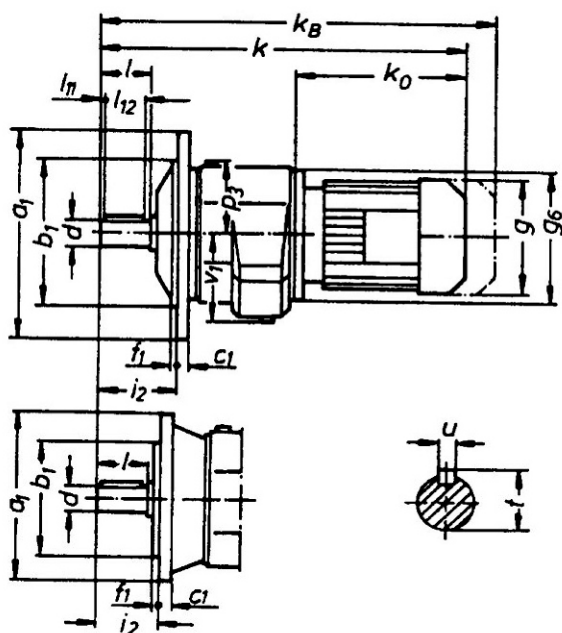
| Size | a | b | c | e | f | g | g ₁ | g _{1B} | g ₆ | h | i | k | k _B | k ₀ | m | n | p ₃ | s | d | l | l ₁₁ | l ₁₂ | t | u | |
|------------|---------|-----|-----|-----|---|-----|----------------|-----------------|----------------|-----|-----|------|----------------|----------------|-----|-----|----------------|-----|-----|-----|-----------------|-----------------|------|----|--|
| 92 93 | DT80.. | 310 | | | | 145 | 121 | 127 | | | | 671 | 735 | 231 | | | 431 | | 60 | | 10 | | 64 | | |
| | DT90.. | | | | | | | 155 | 161 | | | | 691 | 776 | 251 | | | | | | | | | | |
| | DT100.. | | | | | | | 163 | 169 | | | | 742 | 827 | 302 | | | | | | | | | | |
| | DV112M | | | | | | 221 | 176 | 182 | | | 777 | 857 | 337 | | | | | | | | | | | |
| | DV132M | | | | | | | | | | | 822 | 902 | 382 | | | | | | | | | | | |
| | DV132M | 55 | 365 | 340 | | | | | | 300 | 225 | 160 | 842 | 954 | 402 | 100 | 90 | | 22 | | | | | | |
| | DV132ML | | | | | | 275 | 230 | 230 | | | | | | | | | | | | | | | | |
| | DV160M | | | | | | | | | | | | 902 | 1014 | 462 | | | | | | | | | | |
| | DV160L | | | | | | 331 | 253 | 253 | | | | 950 | 1106 | 510 | | | | | | | | | | |
| | DV180.. | | | | | | | | | | | | 1022 | 1178 | 582 | | | | | | | | | | |
| DV200.. | 250 | | | | | 394 | 285 | 285 | | | | 1069 | 1225 | 629 | | | 386 | | 120 | | 100 | | 18 | | |
| 102 103 | DT100.. | 370 | | | | 197 | 163 | 169 | | | | 807 | 892 | 295 | | | 500 | | 70 | | 15 | | 74.5 | | |
| | DV112M | | | | | | | | | | | | 843 | 923 | 331 | | | | | | | | | | |
| | DV132S | | | | | | | 221 | 176 | 182 | | | 888 | 968 | 376 | | | | | | | | | | |
| | DV132M | | | | | | | | | | | 908 | 1020 | 396 | | | | | | | | | | | |
| | DV132ML | 65 | 440 | 400 | | 275 | 230 | 230 | 350 | 250 | 185 | 968 | 1080 | 456 | 125 | 110 | | 26 | | | | | | | |
| | DV160M | | | | | | | | | | | | | | | | | | | | | | | | |
| | DV160L | | | | | | | | | | | 1016 | 1172 | 504 | | | | | | | | | | | |
| | DV180.. | | | | | | 331 | 253 | 253 | | | 1088 | 1244 | 576 | | | | | | | | | | | |
| | DV200.. | | | | | | | 285 | 285 | | | 1135 | 1291 | 623 | | | | | | | | | | | |
| | DV225.. | 290 | | | | | 394 | 289 | 289 | | | | 1217 | 1373 | 705 | | | 437 | | 140 | | 110 | | 20 | |

Check dimension $g/2$ in comparison to h
 Dimensions k_B refer to DC motors
 Dimensions g_{1B} refer to "Increased Safety" motors



BH SERIES INSTALLATION DIMENSIONS

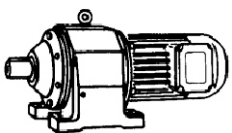
Flange mounted helical gear box with motor mounting flange



| Size | a ₁ | Fig. | b ₁ | c ₁ | e ₁ | f ₁ | g | g ₁ | g _{1B} | g ₆ | i ₂ | Fig. | k | k _B | k ₀ | g ₆ p ₃ | s ₁ | v ₁ | d l | l ₁₁ l ₁₂ | t u | | | | | | | | | |
|--------|----------------|------|----------------|----------------|----------------|----------------|-----|----------------|-----------------|----------------|----------------|------|--------|----------------|----------------|----------------------------------|----------------|----------------|--------|------------------------------------|--------|------|-----|-----|-----|-----|-----|----|---|----|
| 32 | DT63.. | 120 | 2 | 80 | 8 | 100 | 3 | 127 | 95 | 95 | 134 | 44 | - | 324 | 356 | 154 | 135 | 6.6 | 73 | 20 | 4 | 22.5 | | | | | | | | |
| | DT71D | | | | | | | 145 | 121 | 127 | | | | 334 | 398 | 164 | | | | | | | | | | | | | | |
| | DT80.. | | | | | | | 145 | 121 | 127 | | | | 384 | 448 | 214 | | | | | | | 66 | 40 | 32 | 6 | | | | |
| 42 | D63.. | 120 | 2 | 80 | 8 | 100 | 3 | 127 | 95 | 95 | 55 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| | DT71D | | | | | | | 145 | 121 | 127 | | | | | | | | | | | | | 418 | 450 | 196 | 145 | 6.6 | 25 | 7 | 28 |
| | DT80.. | | | | | | | 145 | 121 | 127 | | | | | | | | | | | | | 427 | 491 | 205 | 66 | 9 | 91 | | |
| 43 | DT80.. | 160 | 2 | 110 | 10 | 130 | 3.5 | 145 | 121 | 127 | 120 | 55 | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| | DT90.. | | | | | | | 197 | 155 | 161 | | | | | | | | | | | | | 477 | 541 | 255 | 9 | 91 | | | |
| | DT100.. | | | | | | | 197 | 155 | 161 | | | | | | | | | | | | | 497 | 582 | 275 | 11 | 50 | 40 | 8 | |
| 62 | D63.. | 160 | 2 | 110 | 10 | 130 | 3.5 | 127 | 95 | 95 | 65 | 2 | 462 | 494 | 190 | 190 | 9 | - | 30 | 7 | 33 | | | | | | | | | |
| | DT71D | | | | | | | 145 | 121 | 127 | | | 1 | 439 | 471 | | | | | | | 199 | | | | | | | | |
| | DT80.. | | | | | | | 145 | 121 | 127 | | | 2 | 471 | 535 | | | | | | | 249 | | | | | | | | |
| | DT90.. | | | | | | | 197 | 155 | 161 | | | 2 | 521 | 585 | | | | | | | 249 | | | | | | | | |
| | DT100.. | | | | | | | 197 | 155 | 161 | | | 1 | 498 | 562 | | | | | | | 269 | | | | | | | | |
| | DV112M | | | | | | | 221 | 176 | 182 | | | 2 | 541 | 626 | | | | | | | 269 | 11 | 118 | | | | | | |
| 63 | DT90.. | 200 | 2 | 130 | 10 | 165 | 3.5 | 155 | 161 | 160 | 65 | 2 | 541 | 626 | 269 | - | - | - | - | - | - | | | | | | | | | |
| | DT100.. | | | | | | | 197 | 155 | 161 | | | 1 | 518 | 603 | | | | | | | 319 | | | | | | | | |
| | DV112M | | | | | | | 221 | 176 | 182 | | | 2 | 591 | 676 | | | | | | | 354 | | | | | | | | |
| DV132S | 250 | 1 | 180 | 15 | 215 | 4 | - | - | - | - | 80 | 2 | 674 | 754 | 402 | 91 | 14 | - | 60 | 50 | 8 | | | | | | | | | |
| | | | | | | | | | | | | | DV132S | 1 | 651 | | | | | | | 731 | 402 | 91 | 14 | 60 | 50 | 8 | | |

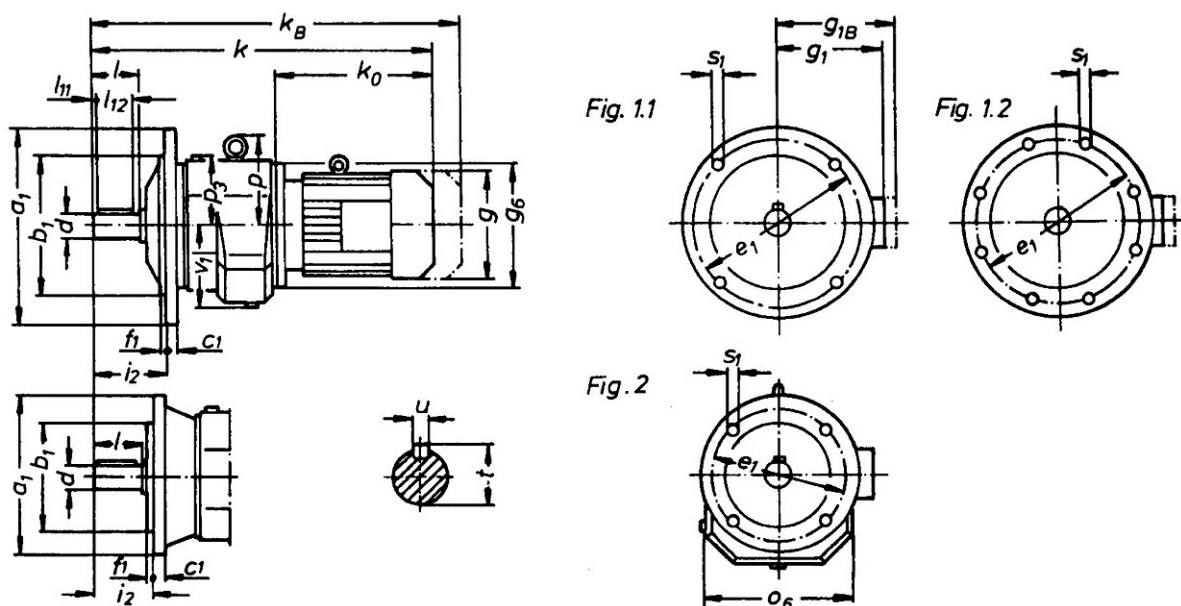
Dimensions k_B refer to DC motors

Dimensions g_{1B} refer to "Increased Safety" motors



BH SERIES INSTALLATION DIMENSIONS

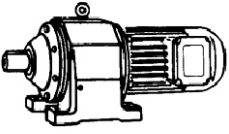
Flange mounted helical gear box with motor mounting flange



| Size | a ₁ | Fig. | b ₁ | c ₁ | e ₁ | f ₁ | g | g ₁ | g _{1B} | g ₆ | i ₂ | k | k _B | k ₀ | o ₆ | p | p ₃ | s ₁ | v ₁ | d | l ₁₁ | l ₁₂ | t | u | |
|---------|----------------|------|----------------|----------------|----------------|----------------|-----|----------------|-----------------|----------------|----------------|------|----------------|----------------|----------------|-----|----------------|----------------|----------------|-----|-----------------|-----------------|------|---|--|
| 72 | D63.. | 250 | 2 | 180 | 15 | 215 | 127 | 95 | 95 | | 86 | 502 | 534 | 184 | | 147 | 14 | | | 40 | 5 | | 43 | | |
| | DT71D | | | | | | 145 | 121 | 127 | | | 511 | 575 | 193 | | | | | | | | | | | |
| | DT80.. | | | | | | | 155 | 161 | | | 561 | 625 | 243 | | | | | | | | | | | |
| | DT90.. | | | | | 4 | 197 | 163 | 169 | 200 | | 579 | 664 | 261 | | | | | 142 | | | | | | |
| | DT100.. | | | | | | | | | | | 629 | 714 | 311 | 230 | | | | | | | | | | |
| | DV112M | | | | | | | 221 | 176 | 182 | | | 665 | 745 | 347 | | | | | | | | | | |
| | DV132S | | | | | | | | | | | | 710 | 790 | 392 | | | | | | | | | | |
| 73 | DV132M | 300 | 1.1 | 230 | 16 | 265 | 275 | 230 | 230 | | 130 | 730 | 842 | 412 | | 111 | 14 | | | 80 | 70 | | 12 | | |
| | DV132ML | | | | | | | | | | | 790 | 902 | 472 | | | | | | | | | | | |
| | DT80.. | 300 | 2 | 230 | 16 | 265 | 4 | 145 | 121 | 127 | 110 | 633 | 697 | 238 | | 181 | 14 | | | 50 | 10 | | 53.5 | | |
| | DT90.. | | | | | | | 155 | 161 | | | 652 | 737 | 257 | | | | | | | | | | | |
| | DT100.. | | | | | | | 197 | 163 | 169 | | 702 | 787 | 307 | | | | | | | | | | | |
| | DV112M | | | | | | | 221 | 176 | 182 | 250 | 737 | 817 | 342 | | | | | | | | | | | |
| | DV132S | | | | | | | | | | | 782 | 862 | 387 | 290 | | | | 183 | | | | | | |
| 82 | DV132M | | | | | | | | | | | 802 | 914 | 407 | | | | | | | | | | | |
| | DV132ML | | | | | | 275 | 230 | 230 | | | 862 | 974 | 467 | | | | | | | | | | | |
| | DV160M | 350 | 1.1 | 250 | 18 | 300 | 5 | 331 | 253 | 253 | 160 | 910 | 1066 | 515 | | 137 | 18 | | | 100 | 80 | | 14 | | |
| | DV160L | | | | | | | | | | | 693 | 757 | 231 | | | | | | | | | | | |
| | DT80.. | 350 | 2 | 250 | 18 | 300 | | 145 | 121 | 127 | 130 | 713 | 798 | 251 | | 206 | 18 | | | 60 | 10 | | 64 | | |
| | DT90.. | | | | | | | 197 | 163 | 169 | | 764 | 849 | 302 | | | | | | | | | | | |
| | DT100.. | | | | | | | | | | | 799 | 879 | 337 | | | | | | | | | | | |
| 92 | DV112M | | | | | | | 221 | 176 | 182 | | 844 | 924 | 382 | | | | | | | | | | | |
| | DV132S | | | | | | | | | | | 864 | 976 | 402 | 340 | | | | 225 | | | | | | |
| | DV132M | | | | | 5 | | | | 300 | | 924 | 1036 | 462 | | | | | | | | | | | |
| | DV132ML | | | | | | 275 | 230 | 230 | | | 972 | 1128 | 510 | | | | | | | | | | | |
| | DV160M | | | | | | | | | | | 1044 | 1200 | 582 | | | | | | | | | | | |
| | DV160L | | | | | | | 331 | 253 | 253 | 180 | 1091 | 1247 | 629 | | 161 | 18 | | | 120 | 100 | | 18 | | |
| | DV180.. | 450 | 1.2 | 350 | 20 | 400 | | | | | | | | | | | | | | | | | | | |
| DV200.. | | | | | | | 394 | 285 | 285 | | | | | | | | | | | | | | | | |

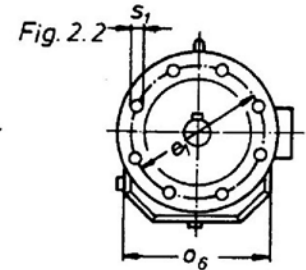
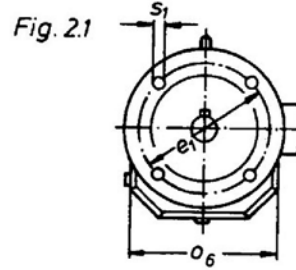
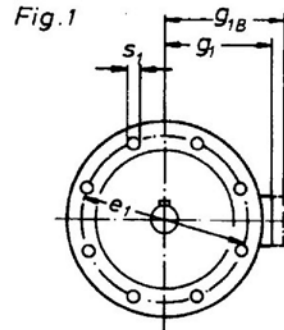
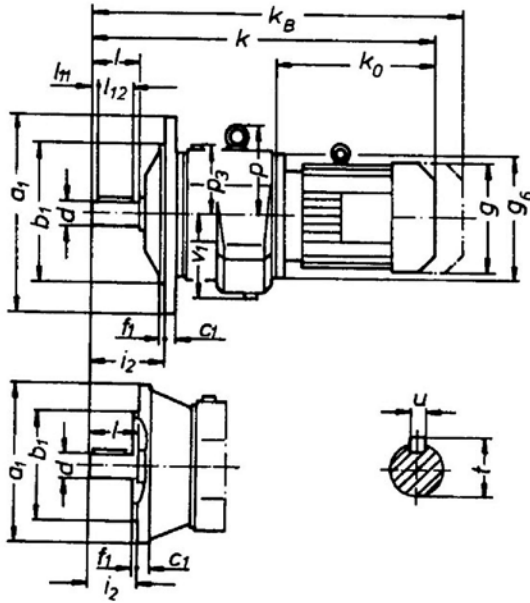
Dimensions k_B refer to DC motors

Dimensions g_{1B} refer to "Increased Safety" motors



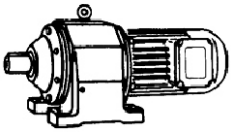
BH SERIES INSTALLATION DIMENSIONS

Flange mounted helical gear box with motor mounting flange



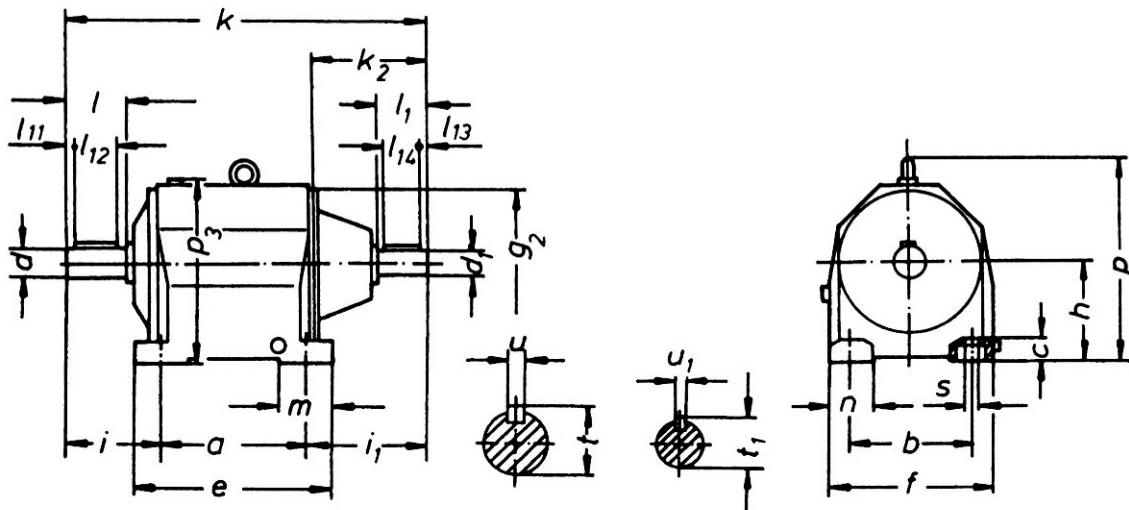
| Size | a ₁ | Fig. | b ₁ | c ₁ | e ₁ | f ₁ | g | g ₁ | g _{1B} | g ₆ | i ₂ | k | k _B | k ₀ | o ₆ | P p ₃ | s ₁ | v ₁ | d l | l ₁₁ l ₁₂ | t u | | | | | | | | |
|-------------|----------------|------|----------------|----------------|----------------|----------------|-----|----------------|-----------------|----------------|----------------|------|----------------|----------------|----------------|---------------------|----------------|----------------|--------|------------------------------------|--------|--|--|--|--|--|--|--|--|
| DT100.. | 350 | 2.1 | 250 | 18 | 300 | | 197 | 163 | 169 | | 135 | 807 | 892 | 295 | 250 | 18 | | 70 | 15 | 74.5 | | | | | | | | | |
| DV112M | | | | | | | 221 | 176 | 782 | | | 843 | 923 | 331 | | | | | | | | | | | | | | | |
| DV132S | | | | | | | 888 | 968 | 376 | | | 908 | 1020 | 396 | | | | | | | | | | | | | | | |
| DV132M | | | | | | | 908 | 1020 | 396 | | | | | | | | | | | | | | | | | | | | |
| 102 DV132ML | | | | | | 5 | 275 | 230 | 230 | 350 | | 968 | 1080 | 456 | 400 | | 244 | | | | | | | | | | | | |
| 103 DV160M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DV160L | 331 | 253 | 253 | 1016 | 1172 | 504 | | | | | | | | | | | | | | | | | | | | | | | |
| DV180.. | 1088 | 1244 | 576 | 1135 | 1291 | 623 | | | | | | | | | | | | | | | | | | | | | | | |
| DV200.. | 450 | 1 | 350 | 22 | 400 | | 394 | 285 | 285 | | 195 | 1135 | 1291 | 623 | 187 | 18 | | 140 | 110 | 20 | | | | | | | | | |
| DV225 | | | | | | | 289 | 289 | 1217 | | | 1373 | 705 | | | | | | | | | | | | | | | | |

Dimensions k_B refer to DC motors
Dimensions g_{1B} refer to "Increased Safety" motors

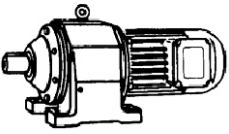


BH SERIES INSTALLATION DIMENSIONS

Foot mounted inline helical gear box

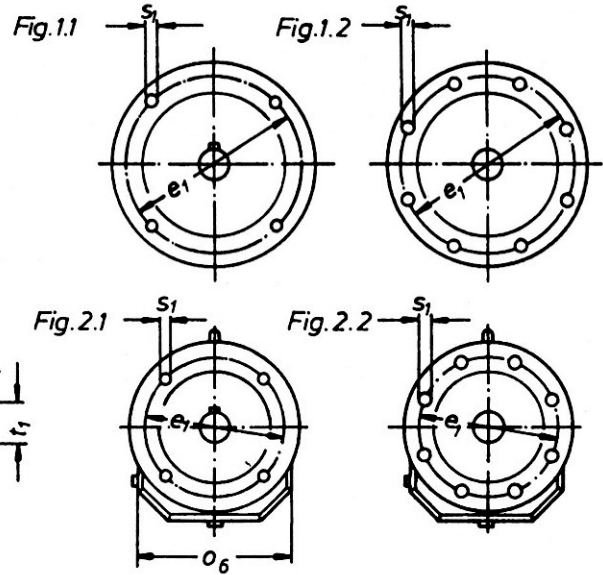
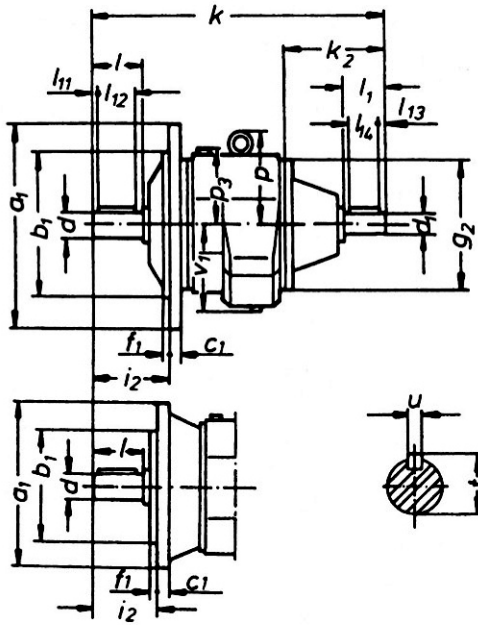


| Size | a b | c | e f | g ₂ | h | i | i ₁ | k | k ₂ | m | n | p | p ₃ | s | d | l | l ₁₁ l ₁₂ | t | u | d ₁ l ₁ | l ₁₃ | l ₁₄ | t ₁ | u ₁ | |
|------|--------|----|--------|----------------|------|-----|----------------|-----|----------------|-----|-----|-----|----------------|----|----|-----|------------------------------------|-----|------|----------------------------------|-----------------|-----------------|----------------|----------------|----|
| 42 | 130 | | 160 | | 90 | | | | | | | | | | | | | | | | | | | | |
| 43 | 110 | 20 | 145 | 120 | -0.5 | 75 | 112 | 317 | 115 | 40 | 35 | - | 165 | 9 | 25 | 50 | 7 | 40 | 28 | 8 | 16 | 4 | 32 | 18 | 5 |
| 62 | 165 | | 200 | | 115 | | | | | | | | | | | | | | | | | | | | |
| 63 | 135 | 25 | 190 | 160 | -0.5 | 90 | 114 | 369 | 120 | 60 | 55 | - | 206 | 14 | 30 | 60 | 7 | 50 | 33 | 8 | 19 | 4 | 32 | 21.5 | 6 |
| 72 | 205 | | 245 | | 140 | | | | | | | | | | | | | | | | | | | | |
| 73 | 170 | 30 | 230 | 200 | -0.5 | 115 | 120 | 440 | 140 | 70 | 60 | 287 | | 18 | 40 | 80 | 5 | 70 | 43 | 12 | 24 | 5 | 40 | 27 | 8 |
| 82 | 260 | | 310 | | 180 | | | | | | | | | | | | | | | | | | | | |
| 83 | 215 | 45 | 290 | 250 | -0.5 | 140 | 155 | 555 | 180 | 90 | 75 | 361 | | 18 | 50 | 100 | 10 | 80 | 53.5 | 14 | 28 | 5 | 50 | 31 | 8 |
| 92 | 310 | | 365 | | 225 | | | | | | | | | | | | | | | | | | | | |
| 93 | 250 | 55 | 340 | 300 | -0.5 | 160 | 190 | 660 | 220 | 100 | 90 | 431 | | 22 | 60 | 120 | 10 | 100 | 64 | 18 | 38 | 5 | 70 | 41 | 10 |
| 102 | 370 | | 440 | | 250 | | | | | | | | | | | | | | | | | | | | |
| 103 | 290 | 65 | 400 | 350 | -0.5 | 185 | 227 | 782 | 270 | 125 | 110 | 500 | | 26 | 70 | 140 | 15 | 110 | 74.5 | 20 | 42 | 10 | 70 | 45 | 12 |

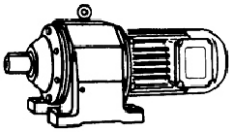


BH SERIES INSTALLATION DIMENSIONS

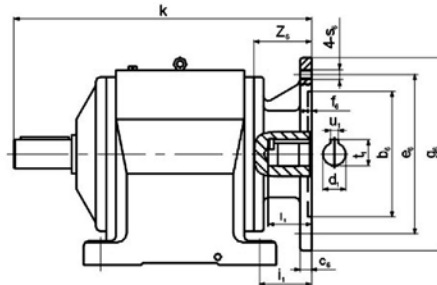
Flange mounted inline helical gear box



| Size | a_1 | Fig. | b_1 | c_1 | e_1 | f_1 | g_2 | i_2 | K | K_2 O_6 | P P_3 | s_1 | v_1 | d l | l_{11} l_{12} | t u | d_1 | l_1 | l_{11} | l_{13} | t_1 u_1 |
|------|-------|------|-------|-------|-------|-------|-------|-------|-----|----------------|------------|-------|-------|--------|----------------------|--------|-------|-------|----------|----------|----------------|
| 42 | 120 | 2.1 | 80 | 8 | 100 | 3 | | 55 | | 115 | - | 6.6 | | 25 | 7 | 28 | | | | | 18 |
| 43 | 160 | 2.1 | 110 | 10 | 130 | 3.5 | 120 | 55 | 337 | | | 9 | 91 | | | | 16 | 40 | 4 | 32 | |
| | 200 | 1.1 | 130 | 12 | 165 | 3.5 | | 85 | | 145 | 75 | 11 | | 50 | 40 | 8 | | | | | 5 |
| 62 | 160 | 2.1 | 110 | 10 | 130 | 3.5 | | 65 | 392 | 120 | - | 9 | | 30 | 7 | 33 | | | | | 21.5 |
| 63 | 200 | 2.1 | 130 | 10 | 165 | 3.5 | 160 | 65 | 392 | | | 11 | 118 | | | | 19 | 40 | 4 | 32 | |
| | 250 | 1.1 | 180 | 15 | 215 | 4 | | 80 | 369 | 190 | 91 | 14 | | 60 | 50 | 8 | | | | | 6 |
| 72 | 250 | 2.1 | 180 | 15 | 215 | 4 | 200 | 86 | 458 | 140 | 147 | | | 40 | 5 | 43 | | | | | 27 |
| 73 | 300 | 1.1 | 230 | 16 | 265 | | | 130 | | 230 | 111 | 14 | 142 | 80 | 70 | 12 | 24 | 50 | 5 | 40 | 8 |
| 82 | 300 | 2.1 | 230 | 16 | 265 | 4 | 250 | 110 | 575 | 180 | 181 | 14 | | 50 | 10 | 53.5 | | | | | 31 |
| 83 | 350 | 1.1 | 250 | 18 | 300 | 5 | | 160 | | 290 | 137 | 18 | 183 | 100 | 80 | 14 | 28 | 60 | 5 | 50 | 8 |
| 92 | 350 | 2.1 | 250 | 18 | 300 | 5 | 300 | 130 | 682 | 220 | 206 | 18 | 255 | 60 | 10 | 64 | 38 | 80 | 5 | 70 | 41 |
| 93 | 450 | 1.2 | 350 | 20 | 400 | | | 190 | | 340 | 161 | | | 120 | 100 | 18 | | | | | 10 |
| 102 | 350 | 2.1 | 250 | 18 | 300 | 5 | 350 | 135 | 782 | 270 | 250 | | 244 | 70 | 15 | 74.5 | | | | | 45 |
| 103 | 450 | 1.2 | 350 | 22 | 400 | | | 195 | | 400 | 187 | 18 | | 140 | 110 | 20 | 42 | 110 | 10 | 70 | 12 |



HELICAL GEAR UNITS FITTED WITH ADAPTER FOR MOUNTING ICE MOTORS



| Size | Frame | b ₆ | c ₆ | e ₆ | f ₆ | g ₆ | i ₁ | k | s ₆ | z ₆ | d ₁ | l ₁ | t ₁ | u ₁ |
|------|-------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| 32 | LS63 | 95 | 12 | 115 | 3.5 | 140 | 47.5 | 192.5 | M8 | 45 | 11 | 27.5 | 12.8 | 4 |
| | LS71 | 110 | 12 | 130 | 4 | 160 | 52.5 | 197.5 | | 50 | 14 | 35 | 16.3 | 5 |
| | LS80 | 130 | 12 | 165 | 4 | 200 | 62.5 | 207.5 | M10 | 60 | 19 | 43 | 21.8 | 6 |
| 42 | LS63 | 95 | 12 | 115 | 3.5 | 140 | 42 | 247 | M8 | 45 | 11 | 27.5 | 12.8 | 4 |
| | LS71 | 110 | 12 | 130 | 4 | 160 | 47 | 252 | | 50 | 14 | 35 | 16.3 | 5 |
| 43 | LS80 | 130 | 12 | 165 | 4 | 200 | 57 | 262 | M10 | 60 | 19 | 43 | 21.8 | 6 |
| | LS90 | | | | | | | | | | 24 | 54 | 27.3 | 8 |
| 62 | LS63 | 95 | 12 | 115 | 3.5 | 140 | 39 | 294 | M8 | 45 | 11 | 27.5 | 12.8 | 4 |
| | LS71 | 110 | 12 | 130 | 4 | 160 | 44 | 299 | | 50 | 14 | 35 | 16.3 | 5 |
| 63 | LS80 | 130 | 12 | 165 | 4 | 200 | 54 | 309 | M10 | 60 | 19 | 43 | 21.8 | 6 |
| | LS90 | | | | | | | | | | 24 | 54 | 27.3 | 8 |
| 63 | LS100 | 180 | 15 | 215 | 5 | 250 | 59 | 314 | M12 | 65 | 28 | 67 | 31.3 | 8 |
| | LS112 | | | | | | | | | | | | | |
| 72 | LS63 | 95 | 12 | 115 | 3.5 | 140 | 25 | 345 | M8 | 45 | 11 | 27.5 | 12.8 | 4 |
| | LS71 | 110 | 12 | 130 | 4 | 160 | 30 | 350 | | 50 | 14 | 35 | 16.3 | 5 |
| 73 | LS80 | 130 | 12 | 165 | 4 | 200 | 40 | 360 | M10 | 60 | 19 | 43 | 21.8 | 6 |
| | LS90 | | | | | | | | | | 24 | 54 | 27.3 | 8 |
| 73 | LS100 | 180 | 15 | 215 | 5 | 250 | 45 | 365 | M12 | 65 | 28 | 67 | 31.3 | 8 |
| | LS112 | | | | | | | | | | | | | |
| 82 | LS132 | 230 | 16 | 265 | 6 | 300 | 65 | 385 | M12 | 85 | 38 | 83 | 41.3 | 10 |
| | LS80 | 130 | 12 | 165 | 4 | 200 | 35 | 435 | | M10 | 60 | 19 | 43 | 21.8 |
| LS90 | 24 | | | | | | | | 54 | | | 27.3 | 8 | |
| 83 | LS100 | 180 | 15 | 215 | 5 | 250 | 40 | 440 | M12 | 65 | 28 | 67 | 31.3 | 8 |
| | LS112 | | | | | | | | | | | | | |
| 83 | LS132 | 230 | 16 | 265 | 6 | 300 | 60 | 460 | M12 | 85 | 38 | 83 | 41.3 | 10 |
| | LS160 | 250 | 18 | 300 | 6 | 350 | 90 | 490 | | M16 | 115 | 42 | 114 | 45.3 |
| 92 | LS100 | 180 | 15 | 215 | 5 | 250 | 35 | 505 | M12 | 65 | 28 | 67 | 31.3 | 8 |
| | LS112 | | | | | | | | | | | | | |
| 93 | LS132 | 230 | 16 | 265 | 6 | 300 | 55 | 525 | M12 | 85 | 38 | 83 | 41.3 | 10 |
| | LS160 | 250 | 18 | 300 | 6 | 350 | 85 | 555 | | M16 | 115 | 42 | 114 | 45.3 |
| 103 | LS180 | 250 | 18 | 300 | 6 | 350 | 85 | 555 | M16 | 115 | 48 | 114 | 51.8 | 14 |
| | LS100 | | | | | | | | | | | | | |
| 102 | LS112 | 180 | 15 | 215 | 5 | 250 | 22 | 577 | M12 | 65 | 28 | 67 | 31.3 | 8 |
| | LS132 | | | | | | | | | | | | | |
| 103 | LS132 | 230 | 16 | 265 | 6 | 300 | 42 | 597 | M12 | 85 | 38 | 83 | 41.3 | 10 |
| | LS160 | 250 | 18 | 300 | 6 | 350 | 72 | 627 | | M16 | 115 | 42 | 114 | 45.3 |
| 103 | LS180 | 250 | 18 | 300 | 6 | 350 | 72 | 627 | M16 | 115 | 48 | 114 | 51.8 | 14 |
| | LS100 | | | | | | | | | | | | | |

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