

KT80

TECHNICAL CHARACTERISTICS

High endurance gearbox for heavy duty continuous workload in any position, at room temperature from -15 to 50°C, with **torque load up to 8 Nm, steady load.**

- **Box.** Made of die-cast Zamak with a tubular aluminium cover. Several options for frontal mounting.
- **Gear set.** Hobbed spur gear set with steel pinions and gear wheels, with case superficial heat anti-friction treatment. The intermediate gears turn on rectified hardened steel shafts, which are fixed to the box.
- **Output shaft.** Ø10 mm steel shaft, 30 mm usable length, with a flat. Incorporates and turns on ball bearings.
- **Output shaft load:**


| | |
|-------------------------------------|----------------|
| Axial direction, pull or push | 500 N ≈ 50 Kg. |
| Radial direction, at 10 mm from box | 350 N ≈ 35 Kg. |
- **Lubrication.** Lithium grade 2 grease.
- **Weight.** With maximal number of stages: 1.41 Kg.

MOTOR COUPLING:

- **Direct C.:** Bosch CPB 24V.
- **OPTIONAL:** Optional fixation 4x M3
- Ø8 shaft.
- Speed regulation with electronic controller.

Avoid impacts on the output shaft when assembling or disassembling parts on it, this could damage the gearbox.

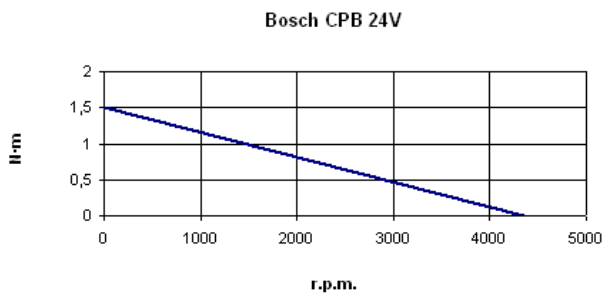
Your special requests are welcome.

|  | | | DC MOTORS MODEL: BOSCH CPB | | |
|--|--------|---------------|-------------------------------|------------------------------|----------------------|
| | | | Bosch CPB 24V | | |
| Reduction ratio $i = X:1$ | Stages | Torque Factor | No load Speed n_0 (r.p.m.) | Nominal Speed n_N (r.p.m.) | Nominal Torque (N.m) |
| 4,43 | 2 | 3,59 | 981,94 | 835,21 | 0,80 |
| 6,68 | 2 | 5,41 | 651,20 | 553,89 | 1,21 |
| 10,65 | 3 | 7,76 | 408,45 | 347,42 | 1,74 |
| 14,78 | 3 | 10,77 | 294,32 | 250,34 | 2,42 |
| 28,63 | 3 | 20,87 | 151,94 | 129,24 | 4,68 |
| 39,71 | 3 | 28,95 | 109,54 | 93,18 | 6,49 |
| 46,45 | 4 | 30,48 | 93,65 | 79,66 | 6,83 |
| 60,26 | 4 | 39,54 | 72,19 | 61,40 | |
| 89,98 | 4 | 59,04 | 48,34 | 41,12 | |
| 124,81 | 4 | 81,89 | 34,85 | 29,65 | |

NO LOAD SPEED/NOMINAL TORQUE
Motor CPB-24V= 4350 r.p.m./1,5Nm.

WARNING: The load might reduce final speed up to 40%.

CURVES



GEARBOX TIPS:

Noise: noise level depends on load symmetry, location (avoid acoustic resonance), and rotation speed; the lower the speed on the input shaft (motor), the lower the noise.