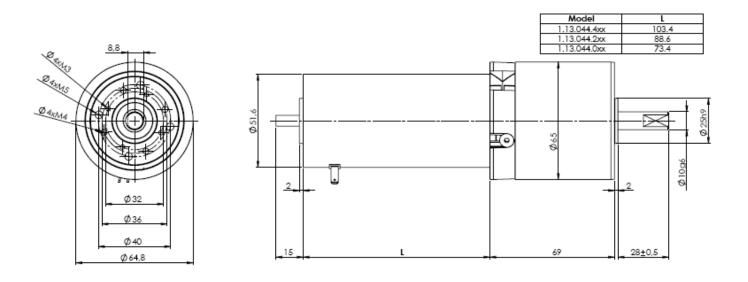
Gearbox + Motor KT80-BHL 51



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 \approx 50 Kg. Radial direction, at 10 mm from box 350 N \approx 35 Kg.

- Lubrication. Lithium grade 2 grease.
- Weight. With maximal number of stages: 1.41 Kg.

MOTOR COUPLING:

- **Direct C.**: Bühler 1.13.044.xxx type, 12 or 24V.
- OPTIONAL:
- 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.

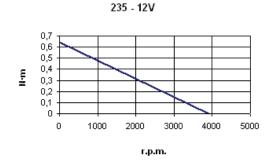
Your special requests are welcome.

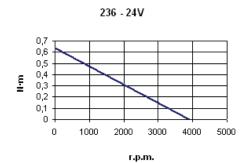
			DC MOTORS MODEL: Bühler 51,xx (1.13.044.xxx)											
			235 - 12V			236 - 24V			413 - 12V			414 - 24V		
Reduction ratio i = X:1	Stages	Torque factor	No load speed n _o (r.p.m.)	Nominal Speed n _N (r.p.m.)	Nominal Torque (N.m)	No load speed n _o (r.p.m.)	Nominal Speed n _N (r.p.m.)	Nominal Torque (N.m)	No load speed n _o (r.p.m.)	Nominal Speed n _N (r.p.m.)	Nominal Torque (N.m)	No load speed n _o (r.p.m.)	Nominal Speed n _N (r.p.m.)	Nominal Torque (N.m)
4,43	2	3,59	880,36	677,20	0,53	880,36	677,20	0,53	880,36	677,20	0,70	880,36	677,20	0,78
6,68	2	5,41	583,83	449,10	0,80	583,83	449,10	0,80	583,83	449,10	1,05	583,83	449,10	1,17
10,65	3	7,76	366,20	281,69	1,15	366,20	281,69	1,15	366,20	281,69	1,50	366,20	281,69	1,68
14,78	3	10,77	263,87	202,98	1,59	263,87	202,98	1,59	263,87	202,98	2,09	263,87	202,98	2,34
28,63	3	20,87	136,22	104,79	3,08	136,22	104,79	3,08	136,22	104,79	4,05	136,22	104,79	4,53
39,61	3	28,88	98,46	75,74	4,26	98,46	75,74	4,26	98,46	75,74	5,60	98,46	75,74	6,26
46,45	4	30,48	83,96	64,59	4,50	83,96	64,59	4,50	83,96	64,59	5,91	83,96	64,59	6,61
60,26	4	39,54	64,72	49,78	5,84	64,72	49,78	5,84	64,72	49,78	7,66	64,72	49,78	
89,98	4	59,04	43,34	33,34		43,34	33,34		43,34	33,34		43,34	33,34	
124,81	4	81,89	31,25	24,04		31,25	24,04		31,25	24,04		31,25	24,04	

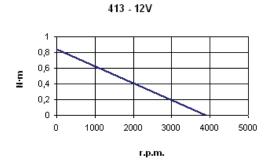
NO LOAD SPEED/NOMINAL TORQUE

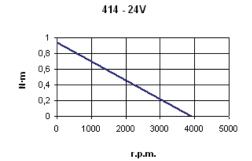
Motor BHL 235-12V= 3900 r.p.m./0,64Nm. Motor BHL 236-24V= 3900 r.p.m./0,64Nm. Motor BHL 413-12V= 3900 r.p.m./0,84Nm. Motor BHL 414-24V= 3900 r.p.m./0,94Nm. WARNING: The load might reduce final speed up to 40%.

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.