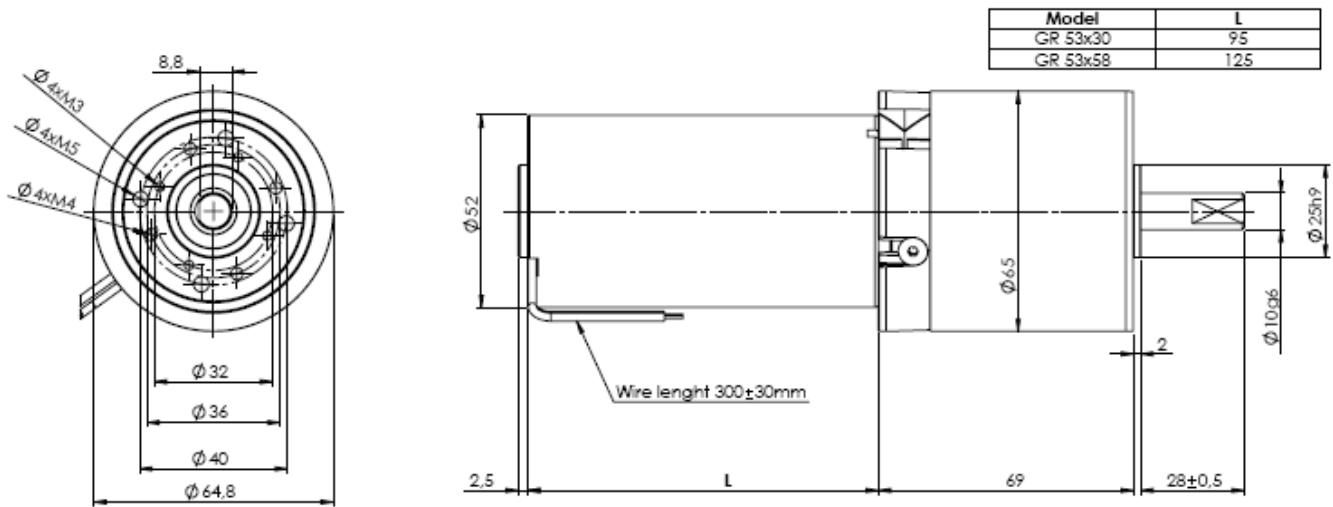


# Gearbox + Motor **KT80-GR53**



**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.:** Dunker GR53 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.**

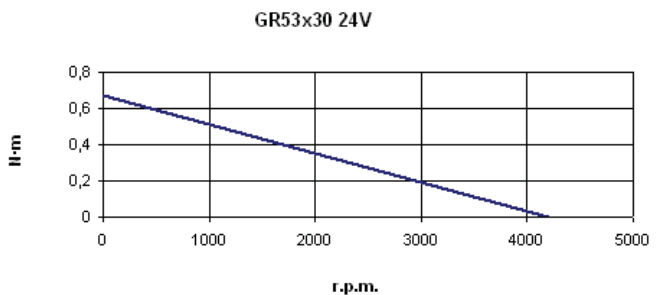
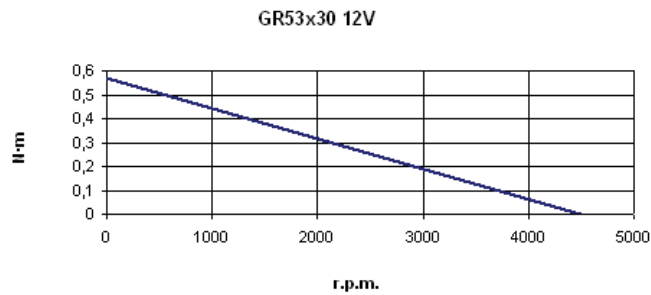
DC MOTORS MODEL: Dunker GR53								
			GR53x30 12V			GR53x30 24V		
Reduction ratio $i = X:1$	Stages	Torque factor	No load speed $n_0$ (r.p.m.)	Nominal Speed $n_N$ (r.p.m.)	Nominal Torque (N.m)	No load speed $n_0$ (r.p.m.)	Nominal Speed $n_N$ (r.p.m.)	Nominal Torque (N.m)
4,43	2	3,59	1013,54	855,53	0,32	948,08	812,64	0,34
6,68	2	5,41	672,16	567,37	0,48	628,74	538,92	0,52
10,65	3	7,76	421,60	355,87	0,69	394,37	338,03	0,74
14,78	3	10,77	303,79	256,43	0,96	284,17	243,57	1,03
28,63	3	20,87	156,83	132,38	1,85	146,70	125,74	2,00
39,71	3	28,95	113,07	95,44	2,57	105,77	90,66	2,77
46,45	4	30,48	96,66	81,59	2,71	90,42	77,50	2,92
60,26	4	39,54	74,51	62,89	3,51	69,70	59,74	3,78
89,98	4	59,04	49,90	42,12	5,25	46,68	40,01	5,65
124,81	4	81,89	35,97	30,37	7,28	33,65	28,84	7,84

**NO LOAD SPEED/NOMINAL TORQUE**  
Motor GR 53x30-12V= 4490 r.p.m./0,57Nm.  
Motor GR 53x30-24V= 4200 r.p.m./0,67Nm.

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

**Ex** Exceeds maximal admissible torque

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.