

TECHNICAL CHARACTERISTICS

High endurance gearbox for heavy duty continuous workload in any position, at room temperature from 15°C to 100°C, with **torque load up to 40 Nm, steady load.**

- **Box.** Anodized aluminium box. Frontal mounting by four Ø9 holes.
- **Gear set.** Hobbed helical gear set with metallic pinions and gear wheels with case hardening treatment.
- Adjusted with prime quality ball bearings.
- **Output shaft.** Steel hollow shaft Ø 20mm with DIN 6885 keyway.
- **Output shaft load:**

Axial direction, pull or push	500 N.
Radial direction, at 20 mm from box	1350 N.
- 14 ratios from 23:1 to 350:1


MOTOR COUPLING:

- **Direct C:** GR53x30 type 12 or 24 V

OPTIONAL:

- Different possible dimensions for output shaft.
- Possibility to have double output shaft.

Your special requests are welcome.

			DC MOTORS					
			MODEL: Dunker GR53 x 30					
			GR53x30 12V			GR53x30 24V		
Reduction ratio $i = X:1$	Stages	Efficiency	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)
22,68	3	0,73	197,97	167,11	1,47	185,19	158,73	1,58
28,83	3	0,73	155,74	131,46	1,87	145,68	124,87	2,01
37,58	3	0,73	119,48	100,85	2,43	111,76	95,80	2,62
47,77	3	0,73	93,99	79,34	3,09	87,92	75,36	3,33
68,05	4	0,66	65,98	55,69	3,97	61,72	52,90	4,27
98,1	4	0,66	45,77	38,63	5,72	42,81	36,70	6,16
112,74	4	0,66	39,83	33,62	6,57	37,25	31,93	7,08
124,7	4	0,66	36,01	30,39	7,27	33,68	28,87	7,83
143,32	4	0,66	31,33	26,44	8,36	29,31	25,12	9,00
194,28	4	0,66	23,11	19,51	11,33	21,62	18,53	12,20
240,79	5	0,59	18,65	15,74	12,64	17,44	14,95	13,61
276,74	5	0,59	16,22	13,70	14,52	15,18	13,01	15,64
306,09	5	0,59	14,67	12,38	16,06	13,72	11,76	17,30
351,78	5	0,59	12,76	10,77	18,46	11,94	10,23	19,88

EX

 Exceeds maximal
admissible torque

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.