

970D SERIES 35mm SINGLE RATIO METAL GEARBOX (CENTRAL OUTPUT SHAFT)

RE-540/1 MOTOR



Metal Gearbox cover & bracket included with this series

RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

970D61	(4.5v - 15v)	WITH RE 540/1 MOTOR. RATIO 6:1
970D161	(4.5v - 15v)	WITH RE 540/1 MOTOR. RATIO 16:1
970D471	(4.5v - 15v)	WITH RE 540/1 MOTOR. RATIO 47:1
970D1561	(4.5v - 15v)	WITH RE 540/1 MOTOR. RATIO 156:1
970D7501	(4.5v - 15v)	WITH RE 540/1 MOTOR. RATIO 750:1
970D28131	(4.5v - 15v)	WITH RE 540/1 MOTOR. RATIO 2813:1

Designed for heavy-duty industrial and model applications this robust unit boasts a powerful high quality, three pole motor with sintered bronze bearings. The metal gearbox incorporates sleeved bearings, enabling the high torque transfer from the motor to be transmitted through the gearbox. The unit is mounted on a 1mm thick plated steel bracket.

MOTOR DATA. (RE-540/1)

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL TORQUE		
	OPERATING RANGE	NOMINAL	SPEED R.P.M.	CURRENT A	SPEED R.P.M.	CURRENT A	TORQUE oz-in	TORQUE g-cm	OUTPUT W	EFF %	oz-in	g-cm
RE-540/1	4.5 - 15	12v Constant	14500	0.70	12048	2.81	2.22	160	19.8	62.7	14.29	1029

Stall Current RE-540/1 at 6v = 8.24A

REDUCTION TABLE. R.P.M. (NO LOAD)

SUPPLY VOLTAGE	4.5v	6v	9v	12v	15v
970D61	906	1209	1813	2417	3021
970D161	340	453	680	906	1133
970D471	116	155	232	309	386
970D1561	35	47	70	93	116
970D7501	7	10	14	19	24
970D28131	2	3	4	5	6

WEIGHT	
970D61	274g
970D161	278g
970D471	285g
970D1561	293g
970D7501	304g
970D28131	305g

Note: Motor speeds may vary by (+) or (-) 12.5%

GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY.

	At 12v (g.cm)
6:1	778
16:1	1869
47:1	3000
156:1	3000
750:1	3000
2813:1	3000

970D SERIES	
No Load Backlash	Max 2 deg.
Max Radial Load (10mm from flange)	1000gf.
Shaft Axial Load	700gf.

24 volt versions are available for this range of motor-gearboxes. Performance data is similar to 12 volt versions. This version also has an extended 10mm rear shaft to accommodate motor encoders. When ordering please use 12v version part number suffixed with 24V. I.E. 970D161 will be 970D16124V

NOTE: To establish Torque Rating in Nm, divide g.cm by 10,197.0

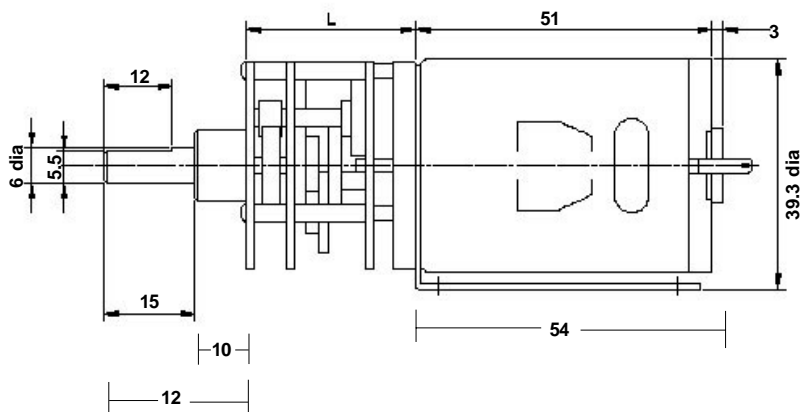
IMPORTANT NOTICE

At very low ratios the torque produced by this geared motor combination may exceed the maximum permissible torque of the gearbox. In this situation the unit must not be allowed to stall as this may damage the gears.

IMPORTANT NOTICE

Due to the wide range of applications for this product it is the users responsibility to establish the products suitability for their individual purpose(s).

970D SERIES 35mm SINGLE RATIO METAL GEARBOX (CENTRAL OUTPUT SHAFT)



RATIO	L
6:1	26.0
16:1	28.5
47:1	31.5
156:1	34.0
750:1	39.0
2813:1	41.5

NOTE: all diameters in mm

FOR ACCESSORIES TO FIT THIS SERIES GEARBOX, REFER TO 919D SERIES PAGE.

Subject to minimum order quantities of 250 units, the following ratios are also available with a six week lead-time. The physical dimensions of these other gearboxes may vary from the data as illustrated above. Details of individual gearboxes are available upon request.

GEARBOX 19:1 WITH 540/1 MOTOR
 GEARBOX 21:1 WITH 540/1 MOTOR
 GEARBOX 31:1 WITH 540/1 MOTOR
 GEARBOX 38:1 WITH 540/1 MOTOR
 GEARBOX 56:1 WITH 540/1 MOTOR
 GEARBOX 63:1 WITH 540/1 MOTOR
 GEARBOX 69:1 WITH 540/1 MOTOR
 GEARBOX 75:1 WITH 540/1 MOTOR

GEARBOX 94:1 WITH 540/1 MOTOR
 GEARBOX 104:1 WITH 540/1 MOTOR
 GEARBOX 113:1 WITH 540/1 MOTOR
 GEARBOX 125:1 WITH 540/1 MOTOR
 GEARBOX 169:1 WITH 540/1 MOTOR
 GEARBOX 188:1 WITH 540/1 MOTOR
 GEARBOX 219:1 WITH 540/1 MOTOR
 GEARBOX 234:1 WITH 540/1 MOTOR

GEARBOX 250:1 WITH 540/1 MOTOR
 GEARBOX 281:1 WITH 540/1 MOTOR
 GEARBOX 312:1 WITH 540/1 MOTOR
 GEARBOX 375:1 WITH 540/1 MOTOR
 GEARBOX 422:1 WITH 540/1 MOTOR
 GEARBOX 438:1 WITH 540/1 MOTOR
 GEARBOX 469:1 WITH 540/1 MOTOR
 GEARBOX 563:1 WITH 540/1 MOTOR

GEARBOX 625:1 WITH 540/1 MOTOR
 GEARBOX 938:1 WITH 540/1 MOTOR
 GEARBOX 1250:1 WITH 540/1 MOTOR
 GEARBOX 1875:1 WITH 540/1 MOTOR
 GEARBOX 3750:1 WITH 540/1 MOTOR
 GEARBOX 5625:1 WITH 540/1 MOTOR