

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

(RE540/1 Motor)



Metal gearbox cover & bracket included with this series.

RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

Fitted with RE540/1 (4.5v - 15v) Motor:

970D61 Ratio 6:1 970D161 Ratio 16:1 970D471 Ratio 47:1 970D1561 Ratio 156:1 970D7501 Ratio 750.1 970D28131 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. (RE540/1)

	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY							STALL	
MODEL	OPERATING NOMINAL		SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	TORQUE		
	RANGE		R.P.M.	Α	R.P.M.	Α	oz-in	g-cm	W	%	oz-in	g-cm	
RE540/1	4.5 - 15	12v Constant	14500	0.7	12048	2.81	2.22	160	19.8	62.71	14.29	1029	

Stall Current: RE540/1 at 6v = 8.24A

GEARBOX DATA.

PART NO	RATIO	REDUCTION TABLE RPM (No Load)°			Load)°	WEIGHT	TORQUE RATING AT:		
		4.5v	6v	9v	12v	15v		12v (g.cm)^	
970D61	6:1	906	1209	1813	2417	3021	274g	778	
970D161	16:1	340	453	680	906	1133	278g	1869	
970D471	47:1	116	155	232	309	386	285g	3000	
970D1561	156:1	35	47	70	93	116	293g	3000	
970D7501	750:1	7	10	14	19	24	304g	3000	
970D28131	2813:1	2	3	4	5	6	305g	3000	

NOTES: Motor speeds may vary by + or - 12.5%

970D SERIES				
No Load Backlash	Max 2 deg.			
Max Radial Load	1000gf.			
(10mm from flange)				
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. ie: 970D161 will be 970D16124V

IMPORTANT NOTICES:

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. 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).



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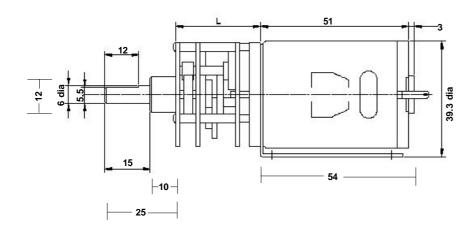
[^] Geared Motor Torque Ratings at Maximum Efficiency. To establish Torque Rating in Nm, divide g.cm by 10197.0

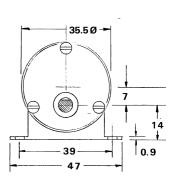


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(RE540/1 Motor)

970D SERIES TECHNICAL DRAWING





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26.0
28.5
31.5
34.0
39.0
41.5

NOTE: all diameters in mm

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

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 e upon request.
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 563:1 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



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