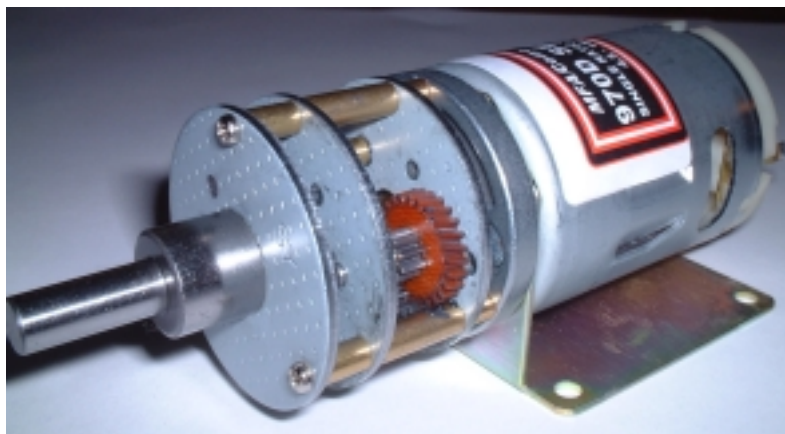


970D SERIES 35mm SINGLE RATIO METAL GEARBOX (CENTRAL OUTPUT SHAFT)

(RE 540/1 MOTOR)



Metal Gearbox cover included with this series

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).

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
970D28121	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 2812:1

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	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	oz - in	g - cm
			R.P.M.	A	R.P.M.	A	oz - in	g - cm	W	%		
RE - 540/1	4.5 - 15.0	6.0v CONSTANT	7500	0.45	6180	2.1	1.64	118.2	7.49	59.4	9.31	670
		12.0v CONSTANT	15800	0.52	13360	2.85	2.14	154.4	21.2	61.9	13.9	1000

REDUCTION TABLE. R.P.M.

SUPPLY VOLTAGE	4.5v	6.0v	9.0v	12.0v	15.0v	Direction of rotation
						Clockwise/ Anticlockwise
970D61	800	1050	1700	2150	2900	ACW
970D161	228	500	700	900	1250	CW
970D471	106	144	216	350	450	ACW
970D1561	32	44	68	94	124	CW
970D7501	7	9	14	19	23	CW
970D28121	2	3	4	5	7	ACW

WEIGHT	
970D61	247g
970D161	252g
970D471	257g
970D1561	261g
970D7501	270g
970D28121	271g

GEARBOX RATINGS

RATED TOLERANCE TORQUE (g.cm)		MAX MOMENTARY TOLERANCE TORQUE
6:1	1000	3000
16:1	2000	6000
47:1	3000	9000
156:1	6000	18000
750:1	6000	18000
2812:1	6000	18000

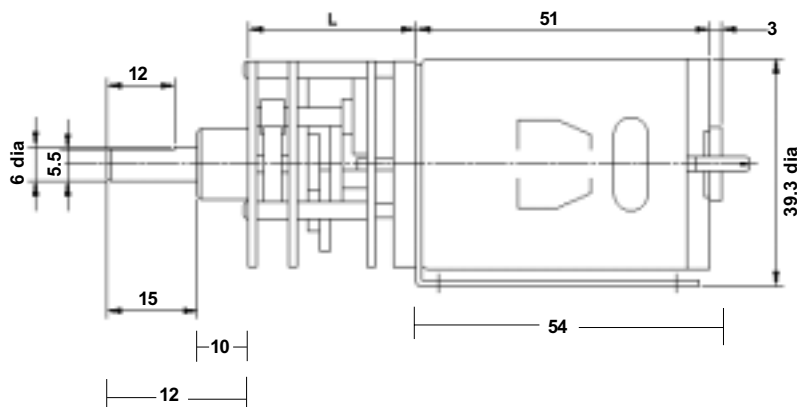
NOTE: To establish Torque Rating in nM, divide g.cm by 10,197.0

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. 919D111 will be 919D11124V

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

(RE 540/1 MOTOR)



GEARBOX REF.	L
970D61 (6:1)	22
970D161 (16:1)	25
970D471 (47:1)	27.5
970D1561 (156:1)	30
970D7501 (750:1)	35
970D28121 (2812:1)	37.5

RATED TOLERANCE TORQUE	
970D61 (6:1)	1000 gf.cm
970D161 (16:1)	2000 gf.cm
970D471 (47:1)	3000 gf.cm
970D1561 (156:1)	6000 gf.cm
970D7501 (750:1)	6000 gf.cm
970D28121 (2812:1)	6000 gf.cm

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 6:1 with 540/1 motor
 Gearbox 31:1 with 540/1 motor
 Gearbox 63:1 with 540/1 motor
 Gearbox 104:1 with 540/1 motor
 Gearbox 169:1 with 540/1 motor
 Gearbox 250:1 with 540/1 motor
 Gearbox 422:1 with 540/1 motor
 Gearbox 625:1 with 540/1 motor
 Gearbox 1875:1 with 540/1 motor

Gearbox 16:1 with 540/1 motor
 Gearbox 38:1 with 540/1 motor
 Gearbox 69:1 with 540/1 motor
 Gearbox 113:1 with 540/1 motor
 Gearbox 188:1 with 540/1 motor
 Gearbox 281:1 with 540/1 motor
 Gearbox 438:1 with 540/1 motor
 Gearbox 750:1 with 540/1 motor
 Gearbox 2813:1 with 540/1 motor

Gearbox 19:1 with 540/1 motor
 Gearbox 47:1 with 540/1 motor
 Gearbox 75:1 with 540/1 motor
 Gearbox 125:1 with 540/1 motor
 Gearbox 219:1 with 540/1 motor
 Gearbox 312:1 with 540/1 motor
 Gearbox 469:1 with 540/1 motor
 Gearbox 938:1 with 540/1 motor
 Gearbox 3750:1 with 540/1 motor

Gearbox 21:1 with 540/1 motor
 Gearbox 56:1 with 540/1 motor
 Gearbox 94:1 with 540/1 motor
 Gearbox 156:1 with 540/1 motor
 Gearbox 234:1 with 540/1 motor
 Gearbox 375:1 with 540/1 motor
 Gearbox 563:1 with 540/1 motor
 Gearbox 1250:1 with 540/1 motor
 Gearbox 5625:1 with 540/1 motor