

919D SERIES 35mm SINGLE RATIO METAL GEARBOX

(RE 540/1 MOTOR)



RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

919D2.51 (4.5v - 15v) WITH RE 540/1 MOTOR. **RATIO 2.5:1** 919D61 (4.5v - 15v) WITH RE 540/1 MOTOR. RATIO 6:1 919D111 (4.5v - 15v) WITH RE 540/1 MOTOR. **RATIO 11:1** 919D501 (4.5v - 15v) WITH RE 540/1 MOTOR. **RATIO 50:1** 919D1001(4.5v - 15v) WITH RE 540/1 MOTOR. **RATIO 100:1** 919D1481(4.5v - 15v) WITH RE 540/1 MOTOR. **RATIO 148:1** 919D5001(4.5v - 15v) WITH RE 540/1 MOTOR. **RATIO 500:1** 919D8101(4.5v - 15v) WITH RE 540/1 MOTOR. **RATIO 810:1** 919D30001(4.5v - 15v) WITH RE 540/1 MOTOR. **RATIO 3000:1**

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).

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			
		OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
		RANGE	NOMINAL	R.P.M.	Α	R.P.M.	A	oz - in	g - cm	w	%	oz - in	g - cm
	DE 540/4	40/1 4.5 - 15.0	6.0v CONSTANT	7500	0.45	6180	2.1	1.64	118.2	7.49	59.4	9.31	670
	RE - 540/1		12.0v CONSTANT	15800	0.52	13360	2.85	2.14	154.4	21.2	61.9	13.9	1000

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

Stall Current RE540/1 at 6v = 8.24Stall Current RE540/1 at 1.5v = 2.41AA

REDUCTION TABLE. R.P.M.

SUPPLY VOLTAGE	4.5v	6.0v	9.0v	12.0v	15.0v
919D2.51	2250	3000	4500	6300	7900
919D61	990	1316	1975	2633	3295
919D111	540	718	1077	1436	1800
919D501	120	158	237	316	395
919D1001	59	79	119	158	198
919D1481	40	53	80	106	132
919D5001	9.75	14	21.5	30	37.5
919D8101	8	10	15	20	25
919D30001	1.5	2	3	5	6

WEIGHT					
240g					
234g					
238g					
246g					
255g					
260g					
255g					
262g					

GEARBOX RATINGS

GEARDON RAITINGS							
RATED TORQUE	TOLERANCE (g.cm)	MAX. MOMENTARY TOLERANCE TORQUE					
2.5:1	1000	6000					
6:1	3000	9000					
11:1	3000	9000					
50:1	3000	9000					
100:1	6000	18000					
148:1	6000	18000					
500:1	6000	18000					
810:1	6000	18000					
3000:1	6000	18000					

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

IMPORTANT NOTICE

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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. Please refer to the table of the gearbox ratings to ascertain the appropriate geared motor

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

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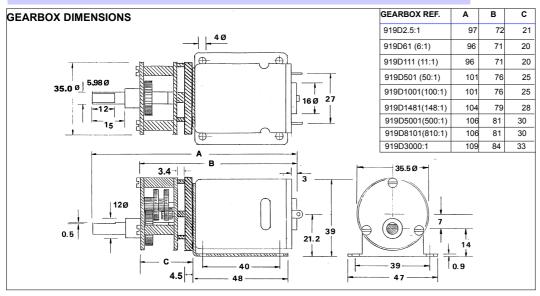
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(RE 540/1 MOTOR)



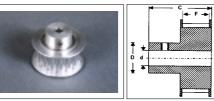


Part No. 1071. M3 Anti vibration mount. Part No. 1072 M4 Anti vibration mount.



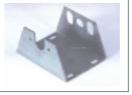
Bearing Blocks. 5mm I.D. (19.06 x 19.0mm x 10mm) Part No. 919D30/1 Bearing Blocks. 6mm I.D. (15.87 x 19.0mm x 12.5mm) Part No. 919D30/2 Bearing Blocks. 8mm I.D. (19.0 x 19.0mm x 13.0mm)





TIMING BELTS





Part No. 919D29 Double ended motor mount.

FOR FURTHER DETAILS SEE PAGE. 2

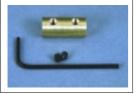
Part N	<u>o. 919D7</u>	- 14	. Tim	ing F	ulley	S.	
Pt. No.	No. of teeth	d	dk	F	С	D	
919D7/1	0 10	3	15.05	12	21.0	10	
919D7/1	2 12	3	18.25	12	21.0	12	
919D7	14	4	21.45	12	21.0	12	
919D8	16	4	24.60	12	21.0	15	1
919D9	20	4	31.00	12	21.0	15	
919D10	25	4	39.00	12	21.0	15	ľ
919D11	30	4	46.95	12	21.0	15	'
919D12		4	54.8		21.0		1
919D13	40	4	62.8	12	21.0	15	(
919D14	44	4	69.20	12	21.0	15	

Please note Dimension 'd' is an industry standard 4mm pilot hole. You will need to enlarge this to the size you re-quire.

. (919D15			Belts
	Pt. No.	Length (Circum)	Width	
	919D15	165	9.8	
	919D16	185	9.8	
	919D17	200	9.8	
	919D18	305	9.8	
	919D19	390	9.8	
	919D20	455	9.8	
	919D21	545	9.8	
	919D22	630	9.8	
	919D23	840	9.8	



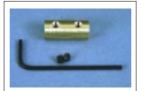
Part No. 919D26 Stainless Steel shaft 5mmOD x 150mm Part No. 919D26/1 Stainless Steel Shaft 6mmOD x 150mm Part No. 919D26/2 Stainless Steel Shaft 8mmOD x 150mm



Pt No. 919D1. In-Line Coupling. 6mm - 6mm.(Dia. 12.67mm x 24.8mm)



Pt No. 919D2. Voltage Regula- Pt No. 919D1/2. In-line tor.(6-15v DC Input. 4v-12v out- Coupling.6mm-8sw (Meccano) put). 26mm x 31mm x 15.5mm Dia. 12.67mm x 24.8mm





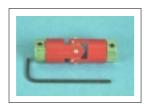
Pt No. 919D4. Pulley 25mm dia (Aluminium)



Pt.No.919D24. Gearbox. (Right Angle)



Pt No. 919D5. Pulley 16mm dia. (Aluminium)



Universal Couplings. 12.5mm dia. 44mm length.Pt No. 1105/60. 6mm - 6mm.Pt.No. 1105/56 (6mm-5mm) Pt. No. 1105/53 (6mm-



Pt No. 917D2515. "O" Ring 70mm x 5mm Dia.



Pt No. 919D27. Gear Adapter.Pt No. 919D25. Nylon Bevel Gears 1:1. OD30.7mm ID 6mm 6mm bore. M10 thread.

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 10:1 WITH 540/1 MOTOR GEARBOX 70:1 WITH 540/1 MOTOR. GEARBOX 120:1 WITH 540/1 MOTOR GEARBOX 300:1 WITH 540/1 MOTOR GEARBOX 900:1 WITH 540/1 MOTOR GEARBOX 18:1 WITH 540/1 MOTOR. GEARBOX 75:1 WITH 540/1 MOTOR. GEARBOX 180:1 WITH 540/1 MOTOR GEARBOX 350:1 WITH 540/1 MOTOR GEARBOX 600:1 WITH 540/1 MOTOR GEARBOX 1000:1 WITH 540/1 MOTOR GEARBOX 30:1 WITH 540/1 MOTOR. GEARBOX 90:1 WITH 540/1 MOTOR. GEARBOX 200:1 WITH 540/1 MOTOR GEARBOX 400:1 WITH 540/1 MOTOR GEARBOX 700:1 WITH 540/1 MOTOR GEARBOX 1500:1 WITH 540/1 MOTOR

GEARBOX 60:1 WITH 540/1 MOTOR GEARBOX 100:1 WITH 540/1 MOTOR GEARBOX 250:1 WITH 540/1 MOTOR GEARBOX 450:1 WITH 540/1 MOTOR GEARBOX 750:1 WITH 540/1 MOTOR



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