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)

	VOLT	AGE	NO L	.OAD		AT M	AXIMUM I	EFFICIEN	CY		STALL	
MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TORQUE	QUE
	RANGE	NOMINAL	R.P.M.	A	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
RE - 540/1 4.5 -		6.0v CONSTANT	7500	0.45	6180	2.1	1.64	118.2	7.49	59.4	9.31	670
	4.5 - 15.0	12.0v CONSTANT	15800	0.52	13360	2.85	2.14	154.4	21.2	61.9	13.9	1000

Stall Current RE540/1 at 6v = 8.24Stall Current RE280 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	
919D2.51	240g
919D61	234g
919D111	238g
919D501	246g
919D1481	255g
919D5001	260g
919D8101	255g
919D30001	262g

GEARBOX RATINGS

<u> </u>					
RATED T	TOLERANCE E (g.cm)	MAX. MOMENTARY TOLERANCE TORQUE			
2.5:1 2000		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

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

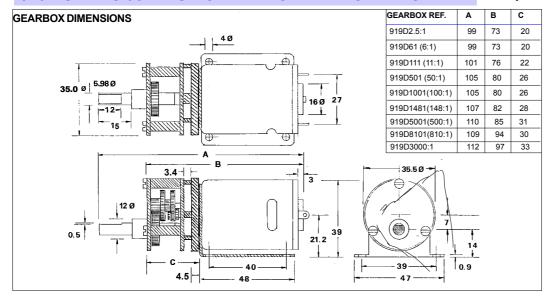
COMO DRILLS FELDERLAND LANE. WORTH. DEAL. KENT. CT14 OBT

TEL: 01304 612132. E-MAIL: info@mfacomo.com

FAX: 01304 614696 www.mfacomodrills.com 1900 m 997 M = F 0,012 $0,2m \text{ M} = F \text{ } \frac{3,48}{0.72} = F$ 3,168 3,16

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(RE 540/1 MOTOR)





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



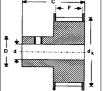
Part No. 919D30 Bearing Blocks. 5mm I.D. (19.06 x 19.0mm x 10mm)

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)





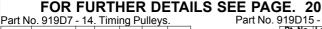


TIMING BELTS





Part No. 919D29 Double ended motor mount.



_							1
t. No.	No. of teeth	d	dk	F	С	D	
919D7/1	0 10	3	15.05	12	21.0	10	F
919D7/1	2 12	3	18.25	12	21.0	12	[
919D7	14	4	21.45	12	21.0	12	۱ (
919D8	16	4	24.60	12	21.0	15	١ (
919D9	20	4	31.00	12	21.0	15	F
919D10	25	4	39.00	12	21.0	15	!
919D11	30	4	46.95	12	21.0	15	l t
919D12	35	4	54.85	12	21.0	15	۱)
919D13	40	4	62.85	12	21.0	15	
919D14	44	4	69.20	12	21.0	15	

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

			Belts
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]
	919D15 919D16 919D17 919D18 919D19 919D20 919D21 919D22	Pt. No. Length Circum 919D15 165 919D16 185 919D17 200 919D18 305 919D19 390 919D20 455 919D21 545 919D22 630	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



Part No. 919D26 Stainless Steel shaft 5mmOD x 150mm Part No. 919D26/1

Stainless Steel Shaft 6mmOD x 150mm Part No. 919D26/2



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) 25mm dia. (Aluminium) put). 26mm x 31mm x 15.5mm Dia. 12.67mm x 24.8mm





Pt No. 919D4. Pullev



Pt.No.919D24. Bevel 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 60:1 WITH 540/1 MOTOR GEARBOX 90:1 WITH 540/1 MOTOR. GEARBOX 180:1 WITH 540/1 MOTOR GEARBOX 300:1 WITH 540/1 MOTOR GEARBOX 450:1 WITH 540/1 MOTOR GEARBOX 700:1 WITH 540/1 MOTOR GEARBOX 1000:1 WITH 540/1 MOTOR GEARBOX 18:1 WITH 540/1 MOTOR GEARBOX 70:1 WITH 540/1 MOTOR GEARBOX 100:1 WITH 540/1 MOTOR GEARBOX 200:1 WITH 540/1 MOTOR GEARBOX 350:1 WITH 540/1 MOTOR GEARBOX 500:1 WITH 540/1 MOTOR GEARBOX 750:1 WITH 540/1 MOTOR GEARBOX 1500:1 WITH 540/1 MOTOR

GEARBOX 30:1 WITH 540/1 MOTOR. GEARBOX 75:1 WITH 540/1 MOTOR GEARBOX 120:1 WITH 540/1 MOTOR GEARBOX 250:1 WITH 540/1 MOTOR GEARBOX 400:1 WITH 540/1 MOTOR GEARBOX 600:1 WITH 540/1 MOTOR GEARBOX 900:1 WITH 540/1 MOTOR



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