

**942D SERIES 32mm (37mm motor) PLANETRY (EPICYCLIC) METAL GEARBOX**



**(RE 540/1 MOTOR)**

**RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.**

942D51	(4.5v - 15v)	RATIO 5:1
942D271	(4.5v - 15v)	RATIO 27:1
942D511	(4.5v - 15v)	RATIO 51:1
942D1001	(4.5v - 15v)	RATIO 100:1
942D1391	(4.5v - 15v)	RATIO 139:1
942D2641	(4.5v - 15v)	RATIO 264:1
942D5161	(4.5v - 15v)	RATIO 516:1
942D7211	(4.5v - 15v)	RATIO 721:1

**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 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.

**MOTOR DATA.**

MODEL	VOLTAGE		NO LOAD		MAX EFFICIENCY						STALL TORQUE	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	g - cm	
			R.P.M.	A	R.P.M.	A	oz - in	g - cm	W	%		
540/1	4.5 - 15.0	12.0v CONSTANT	15,800	0.52	13360	2.85	2.14	154.4	21.2	61.9	13.9	1000

Stall Current RE540/1 at 6v = 8.24A

**REDUCTION TABLE. R.P.M. (no load)**

SUPPLY VOLTAGE	4.5v	6.0v	9.0v	12.0v	15.0v
942D51	1082	1502	2287	3090	3640
942D271	184	250	380	500	614
942D511	109	150	227	288	380
942D1001	51	71	108	146	172
942D1391	27	37	58	79	100
942D2641	18	25.5	39.5	53	68
942D5161	9.5	13	20	27	32
942D7211	7.5	10	15.5	20.5	26

WEIGHT	
942D51	254g
942D271	279g
942D511	306g
942D1001	303g
942D1391	306g
942D2641	329g
942D5161	333g
942D7211	350g

**GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY.**

	At 12V (g.cm)
5:1	618
27:1	2918
51:1	4725
100:1	9264
139:1	10000
264:1	12000
516:1	12000
721:1	12000

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

**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.

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. 942D1001 will be 942D100124V

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

**MOTOR DATA. (RE-540/1 24v).**

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 24v	12 - 24v	24v CONSTANT	14452	0.30	12111	1.57		177	22	65		1094