

## 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)	<b>RATIO 27:1</b>
942D511	(4.5v - 15v)	<b>RATIO 51:1</b>
942D1001	(4.5v - 15v)	<b>RATIO 100:1</b>
942D1391	(4.5v - 15v)	<b>RATIO 139:1</b>
942D2641	(4.5v - 15v)	<b>RATIO 264:1</b>
942D5161	(4.5v - 15v)	<b>RATIO 516:1</b>
942D7211	(4.5v - 15v)	<b>RATIO 721:1</b>

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.

	VOLTAGE			NO LOAD MAX EFFICIENCY					STALL				
MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOF	RQUE	OUTPUT	EFF	TOR	QUE	
	RANGE	-	NOMINAL	R.P.M.	A	R.P.M	Α	oz - in	g - cm	w	%		g - cm
540/1	4.5 - 15.0	12.0v CONSTANT	14,724	0.52	12380	2.75	2.14	152	19.35	58.6	13.9	956	

### 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	1104	1472	2209	2945	3681
942D271	205	273	409	545	682
942D511	108	144	217	289	361
942D1001	55	74	110	147	184
942D1391	40	53	79	106	132
942D2641	21	28	42	56	70
942D5161	11	14	21	29	36
942D7211	7.6	10	15	20	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	

942D SERIES	
No load Backash:	Max 2.5 deg.
Max Radial Load:	3000gf.
(10mm from flange)	
Shaft Axial Load:	2500gf.

NOTE: To establish Torque Rating in Nm, divide g.cm by 10,197.0 MOTOR DATA. (RE-540/1 24v).

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

24 volt versions are available for this range of motor-gearboxes. Performance data is similar to 12 volt versions. This IMPORTANT NOTICE version also has an extended 10mm rear At very low ratios the torque produced by this geared motor shaft to accommodate motor encoders. version also has an extended 10mm rear combination may exceed the maximum permissible torque of When ordering please use 12v version the gearbox. In this situation the unit must not be allowed to stall part number suffixed with 24V.

as this may damage the gears. I.E. 942D1001 will be 942D100124V

VOLTAGE		NO L	.OAD	AT MAXIMUM EFFICIENCY			STALL					
MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
	RANGE	NOMINAL	R.P.M.	Α	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
RE - 540/1 24v	12 - 24v	24v CONSTANT	14452	0.30	12111	1.57		177	22	65		1094

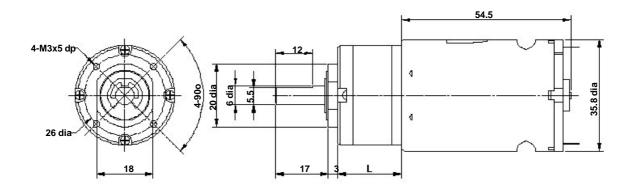
COMO DRILLSFELDERLAND LANE. WORTH. DEAL. KENT. CT14 OBT

TEL: 01304 612132. E-MAIL: info@mfacomo.com FAX: 01304 614696

www.mfacomodrills.com



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





Pt. No. 727/1 Geared motor bracket (90 degree)

GEARBOX REF.	L
942D51 (5:1)	20.8
942D271 (27:1)	26.5
942D511 (51:1)	32.5
942D1001 (100:1)	33.6
942D1391 (139:1)	33.4
942D2641 (264:1)	40.0
942D5161 (516:1)	40.0
942D7211 (721:1)	40.0

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

ADVANTAGES OF PLANETARY GEARBOXES.					
EFFICIENCY:	Efficiencies of planetary gearboxes can be above 90% while some other types of transmission can be 50% or less. This allows the use of smaller motors.				
SIZE:	Planetary gearboxes can be half the size of conventional boxes.				
WEIGHT:	Weight savings can be as high as 60%, allowing smaller, lighter support structures.				
MAINTENANCE:	Other than routine oil changes, no maintenance is required, eliminating the need to hold spares.				
REVERSIBLE:	Planetary gears can be equally efficient in either direction. This is an advantage for use in running machinery in both clockwise and anti-clockwise directions.				
COAXIAL:	The coaxial configuration of input and output shafts allows planetary gears to be installed in line with a motor and a machine.				

Subject to minimum order quantities of 100 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 14:1 WITH 540/1 MOTOR GEARBOX 35:1 WITH 540/1 MOTOR GEARBOX 189:1 WITH 540/1 MOTOR

GEARBOX 19:1 WITH 540/1 MOTOR. GEARBOX 71:1 WITH 540/1 MOTOR. GEARBOX 939:1 WITH 540/1 MOTOR