



RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

Fitted with RE944 (4.5v - 12v) Motor:

944D41	Ratio	4:1
944D621	Ratio	62:1
944D721	Ratio	72:1
944D841	Ratio	84:1
944D1041	Ratio	104:1
944D2311	Ratio	231:1
944D4551	Ratio	455:1

Designed for smaller industrial and model applications this robust unit boasts a powerful high quality motor sintered bronze bearings. The gearbox incorporates sleeved bearings, enabling the high torque transfer from the motor to be transmitted through the gearbox.

MOTOR DATA. (RE944)

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL TORQUE		
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	TORQUE	
			R.P.M.	A	R.P.M.	A	oz-in	g-cm	W	%	oz-in	g-cm
RE944	6 - 12	12v Constant	8000	0.03	6500	0.24	0.25	20.2	1.36	59.3	1.54	111

GEARBOX DATA.

PART NO	RATIO	REDUCTION TABLE RPM (No Load) ^o					WEIGHT	TORQUE RATING AT: 12v (g.cm) [^]
		4.5v	6v	9v	12v			
944D41	4:1	750	1000	1500	2000		59g	65
944D621	62:1	48	65	97	129		67g	751
944D721	72:1	42	56	83	111		67g	873
944D841	84:1	36	48	71	95		67g	1018
944D1041	104:1	29	39	58	77		83g	2000
944D2311	231:1	13	18	26	35		92g	2000
944D4551	455:1	7	9	14	18		93g	2500

NOTES:^o Motor speeds may vary by + or - 12.5%

[^] Geared Motor Torque Ratings at Maximum Efficiency. To establish Torque Rating in Nm, divide g.cm by 10197.0

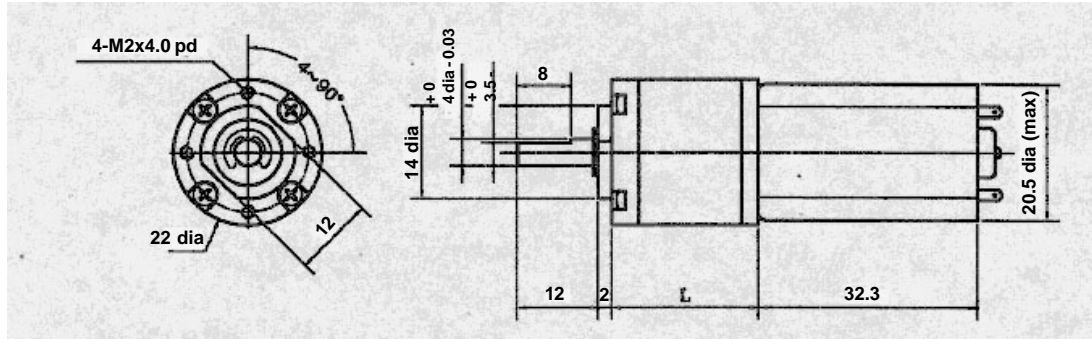
944D SERIES	
No Load Backlash	Max 3 deg.
Max Radial Load (10mm from flange)	800gf.
Shaft Axial Load	600gf.

IMPORTANT NOTICES:

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. 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).

944D SERIES 22mm PLANETRY (EPICYCLIC) MINIATURE METAL GEARBOX (RE944 Motor)

944D SERIES TECHNICAL DRAWING



RATIO	L
4:1	14.4
62:1	21.7
72:1	21.7
84:1	21.7
104:1	21.7
231:1	25.35
455:1	25.35

NOTE: all diameters in mm

FOR ACCESSORIES TO FIT THIS SERIES GEARBOX, REFER TO 918D SERIES.

ADVANTAGES OF PLANETRY 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 944 motor
 GEARBOX 16:1 with 944 motor
 GEARBOX 19:1 with 944 motor
 GEARBOX 53:1 with 944 motor

GEARBOX 198:1 with 944 motor
 GEARBOX 270:1 with 944 motor
 GEARBOX 316:1 with 944 motor

GEARBOX 370:1 with 944 motor
 GEARBOX 742:1 with 944 motor
 GEARBOX 1014:1 with 944 motor

GEARBOX 1249:1 with 944 motor
 GEARBOX 1621:1 with 944 motor
 GEARBOX 1996:1 with 944 motor