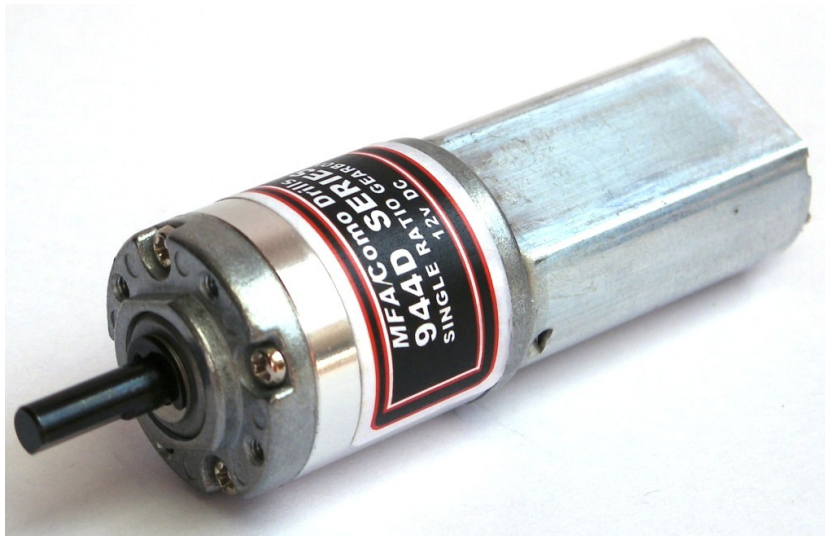


## 944D SERIES 22mm PLANETARY (EPICYCLIC) MINIATURE METAL GEARBOX

### RE-944 MOTOR



RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

944D41	(4.5v - 12v)	RATIO 4:1
944D621	(4.5v - 12v)	RATIO 62:1
944D721	(4.5v - 12v)	RATIO 72:1
944D841	(4.5v - 12v)	RATIO 84:1
944D1041	(4.5v - 12v)	RATIO 104:1
944D2311	(4.5v - 12v)	RATIO 231:1
944D4551	(4.5v - 12v)	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. (RE-944D)

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY						STALL	
	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
RE-944D	6 - 12	12v Constant	8000	0.07	6500	0.24	0.25	20.2	1.36	59.3	1.54	111

#### REDUCTION TABLE. R.P.M. (NO LOAD)

SUPPLY VOLTAGE	4.5v	6v	9v	12v
944D41	750	1000	1500	2000
944D621	48	65	97	129
944D721	42	56	83	111
944D841	36	48	71	95
944D1041	29	39	58	77
944D2311	13	18	26	35
944D4551	7	9	14	18

WEIGHT	
944D41	59g
944D621	67g
944D721	67g
944D841	67g
944D1041	83g
944D2311	92g
944D4551	93g

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

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

	At 12v (g.cm)
4:1	65
62:1	751
72:1	873
84:1	1018
104:1	2000
231:1	2500
455:1	2500

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

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

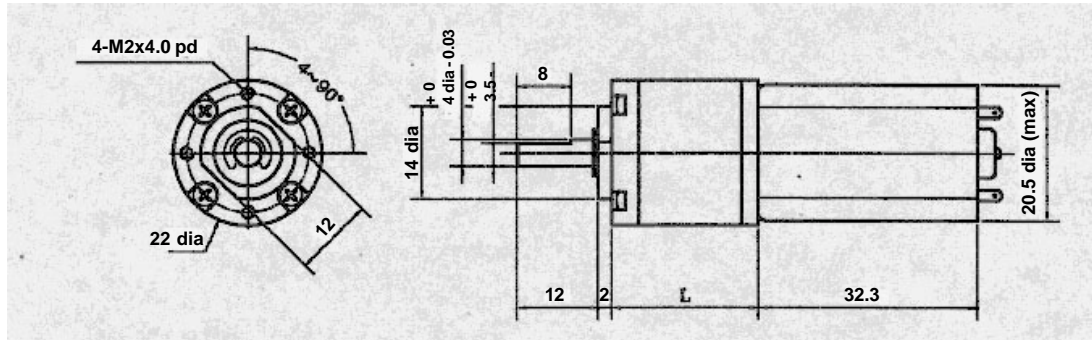
#### IMPORTANT NOTICE

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.

#### 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).

## 944D SERIES 22mm PLANETARY (EPICYCLIC) MINIATURE METAL GEARBOX



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 PAGE.

ADVANTAGES OF PLANETARY GEARBOXES.	
<b>EFFICIENCY:</b>	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.
<b>SIZE:</b>	Planetary gearboxes can be half the size of conventional boxes.
<b>WEIGHT:</b>	Weight savings can be as high as 60%, allowing smaller, lighter support structures.
<b>MAINTENANCE:</b>	Other than routine oil changes, no maintenance is required, eliminating the need to hold spares.
<b>REVERSIBLE:</b>	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.
<b>COAXIAL:</b>	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