

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



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).

RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

944D41	(4.5v - 12v)	RATIO 4:1
944D621	(4.5v - 12v)	RATIO 62:1
944D1041	(4.5v - 12v)	RATIO 104:1
944D2311	(4.5v - 12v)	RATIO 231:1

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.

MODEL	VOLTAGE		NO LOAD		MAX EFFICIENCY						STALL TORQUE	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	STALL TORQUE	
			R.P.M.	A	R.P.M	A	oz - in	g - cm	W	%	oz - in	g - cm
(944D)	6 - 12.0v	12.0v CONSTANT	8000	0.07	6700	0.2	0.25	22	1.5	62.5	1.4	100

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

SUPPLY VOLTAGE	4.5v	6.0v	9.0v	12.0v
944D41	750	1000	1500	2000
944D621	48	65	97	129
944D721	42	56	83	111
944D1041	29	38	58	77
944D2311	13	17	26	35

WEIGHT	
944D41	52g
944D621	65g
944D721	66g
944D1041	67g
944D2311	70g

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

GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY.

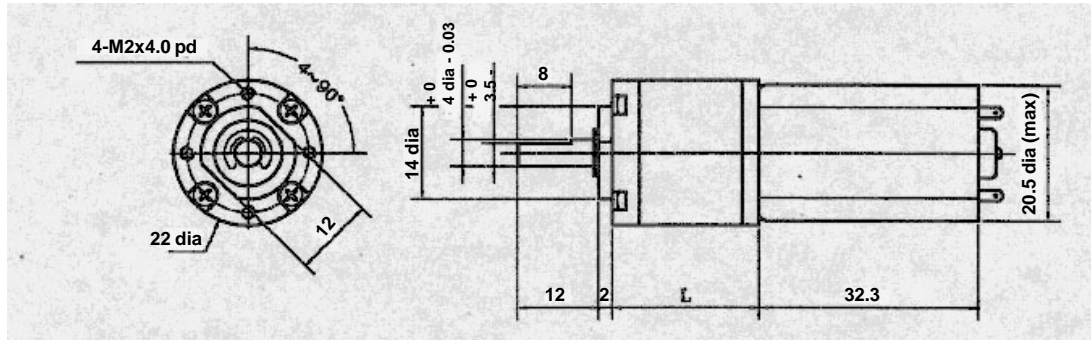
At 12V (g.cm)	
4:1	70
62:1	818
72:1	950
104:1	1373
231:1	2500

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

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.

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

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GEARBOX REF.	L
944D41 (4:1)	14.4
944D621 (62:1)	21.7
944D721 (72:1)	21.7
944D1041 (104:1)	21.7
944D2311 (231:1)	25.35

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

14:1	16:1	19:1
53:1	72:1	84:1
198:1	270:1	316:1
370:1	455:1	742:1
1014:1	1249:1	1621:1
1996:1		