990D SERIES 12mm dia. SUB MINIATURE (EPICYCLIC) METAL GEARBOX (RE990 Motor)



RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.
Fitted with RE990 (3v) Motor:

990D41	Ratio	4:1
990D641	Ratio	64:1
990D2561	Ratio	256:1

A sub miniature epicyclic motor/gearbox combination with scintered steel output bearings and precious metal motor brushes. Idea l in situations requiring high torque in a limited space with low current consumption.

MOTOR DATA. (RE990)

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY						STALL TORQUE	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF		
			R.P.M.	A	R.P.M.	A	oz-in	g-cm	W	%	oz-in	g-cm
RE990	3	3v Constant	12500	0.130	10000	450	0.08	6	0.62	57	0.46	33est

GEARBOX DATA.

PART NO	RATIO	REDUCTION TABLE RPM (No Load)° 3v	WEIGHT	TORQUE RATING AT: 3v (g.cm)^
990D41	4:1	3125	26g	20
990D641	64:1	195	29g	250
990D2561	256:1	49	31g	845

NOTES:° 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

990D SERIES	
No Load Backlash	Max 3 deg.
Max Radial Load (10mm from flange)	500gf.
Shaft Axial Load	500gf.

IMPORTANT NOTICES:
At very low ratios the torque produced by this geared motor combination may exceed the maximum permissible torque of the gearbo x. 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).

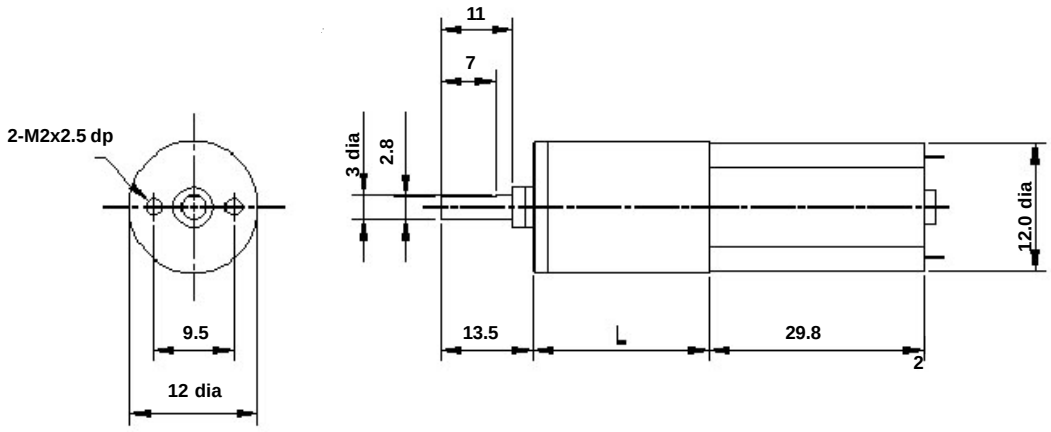
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Version Apr 2022

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990D SERIES TECHNICAL DRAWING



RATIO	L
4:1	15.3
64:1	22.0
256:1	24.7

NOTE: all diameters in mm

ADVANTAGES OF PLANETRY GEARBOXES	
EFFICIENCY:	Efficiencies of planetary gearboxes can be above 90% while some other types of transmission can be 50% of 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 250 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 16:1 with 990 motor

GEARBOX 1024:1 with 990 motor

GEARBOX 4096:1 with 990 motor

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