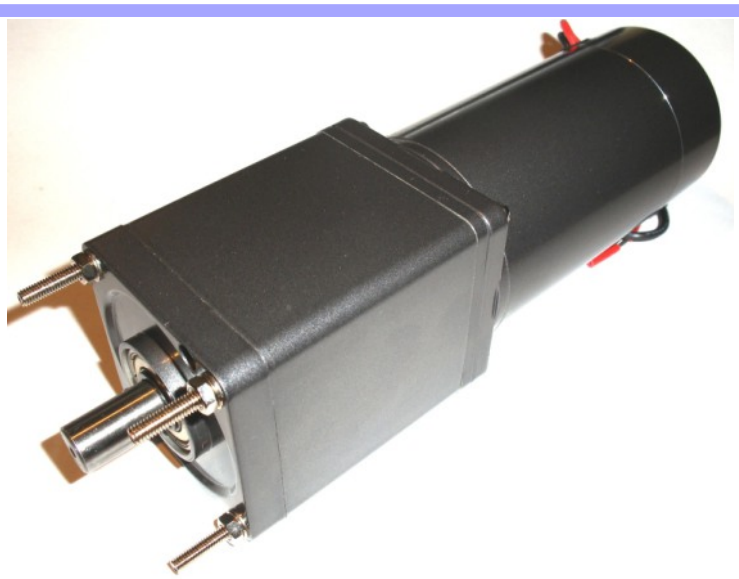
997D SERIES 80mm dia. EPICYCLIC GEARED MOTOR. METAL GEARBOX (RE997 Motor)



RATIOS NOW AVAILABLE.

Fitted with RE997 (12v) Motor:

997D41	Ratio	4:1
997D491	Ratio	49:1
997D1031	Ratio	103:1
997D4451	Ratio	445:1

Fitted with RE997 (24v) Motor:

997D41/24V	Ratio	4:1
997D491/24V	Ratio	49:1
997D1031/24V	Ratio	103:1
997D4451/24V	Ratio	445:1

Designed for industrial applications this robust unit boasts a powerful high quality 12 pole motor with carbon brushes & ball r aced bearings. The metal gearbox incorporates ballrace bearings, enabling the high torque transfer from the motor to be transmitted through the gearbox.

MOTOR DATA. (RE997)

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL TORQUE	
	OPERATING RANGE	NOMINAL	SPEED R.P.M.	CURRENT A	SPEED R.P.M.	CURRENT A	TORQUE oz-in	TORQUE g-cm	OUTPUT W	EFF %	oz-in	g-cm
RE997 (12V)	12	12v Constant	3200	1.4	2750	6.3	28	2000	56.5	75	153	11000
RE997 (24V)	24	24v Constant	3200	0.85	2800	4.4	40	2900	83.4	79	222	15950

GEARBOX DATA.

PART NO	RATIO	REDUCTION TABLE RPM (No Load)°		WEIGHT	TORQUE RATING AT:	
		12v	24v		12v (g.cm)^	24v (g.cm)^
997D41	4:1	800		2.75kg	6400	
997D41/24V	4:1		800	2.75kg		9280
997D491	49:1	65		3.69kg	58800	
997D491/24V	49:1		65	3.69kg		85260
997D1031	103:1	31		3.69kg	123600	
997D1031/24V	103:1		31	3.69kg		125000
997D4451	445:1	7		4.16kg	150000	
997D4451/24V	445:1		7	4.16kg		150000

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

997D SERIES	
No Load Backlash	Max 3 deg.
Max Radial Load (10mm from flange)	30000gf.
Shaft Axial Load	10000gf.

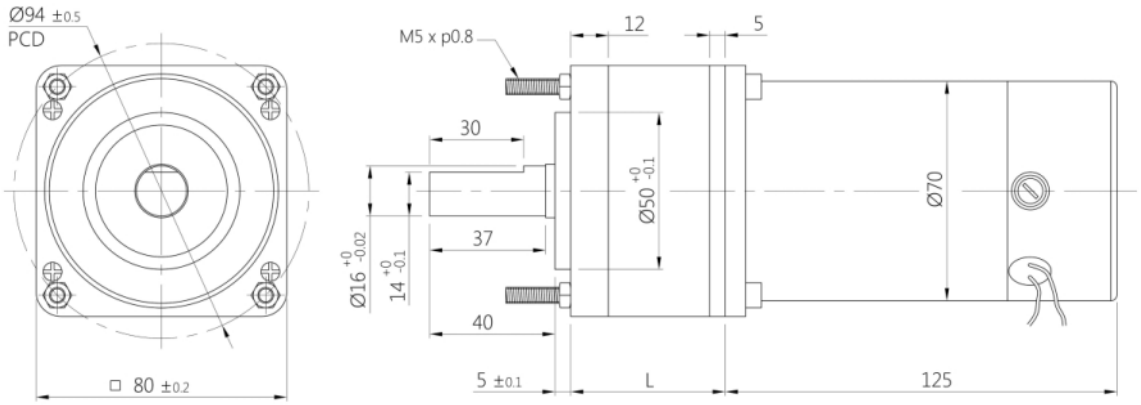
IMPORTANT NOTICES:
At very low ratios the torque produced by this geared motor combination may exceed the maximum permissible torque of the gearbo x. In this situation the unit must not be allowed to stall as this may damage the gears. Due to the wide range of applications for this product it is the users responsibility to establish the products suitability for their individual purpose(s).

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THE ABOVE FIGURES ARE A GUIDE ONLY AND DO NOT FORM ANY CONTRACTUAL OBLIGATION ON THE PART OF MFA/COMO DRILLS.

997D SERIES 80mm dia. EPICYCLIC GEARED MOTOR. METAL GEARBOX (RE997 Motor)

997D SERIES TECHNICAL DRAWING



RATIO	L
4:1	49.3
49:1	82.3
103:1	82.3
445:1	98.8

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 13:1 with 997 motor
GEARBOX 15:1 with 997 motor
GEARBOX 19:1 with 997 motor
GEARBOX 21:1 with 997 motor
GEARBOX 55:1 with 997 motor
GEARBOX 71:1 with 997 motor
GEARBOX 80:1 with 997 motor
GEARBOX 117:1 with 997 motor
GEARBOX 186:1 with 997 motor
GEARBOX 210:1 with 997 motor
GEARBOX 306:1 with 997 motor
GEARBOX 393:1 with 997 motor
GEARBOX 571:1 with 997 motor
GEARBOX 647:1 with 997 motor

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