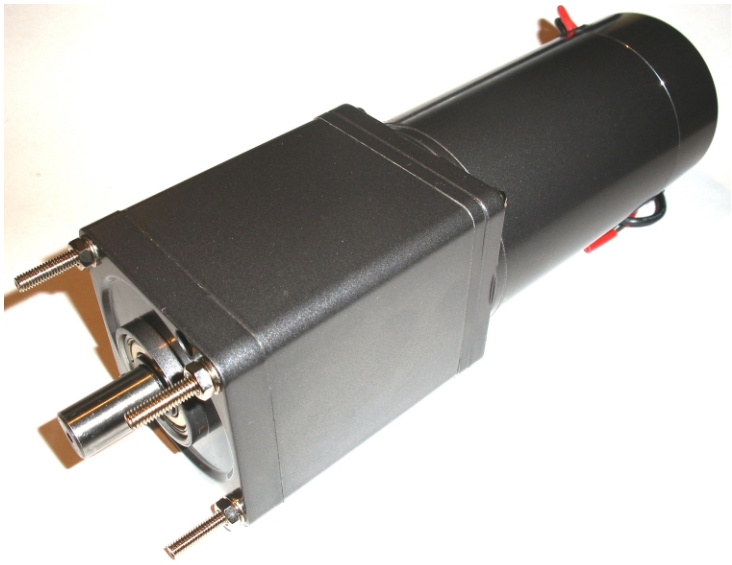
997D SERIES 80mm DIA EPICYCLIC GEARED MOTOR. METAL GEARBOX



RE-997 MOTOR

RATIOS NOW AVAILABLE

997D41	(12v)	RATIO 4:1	997D41/24V	(24v)	RATIO 4:1
997D491	(12v)	RATIO 49:1	997D491/24V	(24v)	RATIO 49:1
997D1031	(12v)	RATIO 103:1	997D1031/24V	(24v)	RATIO 103:1
997D4451	(12v)	RATIO 445:1	997D4451/24V	(24v)	RATIO 445:1

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

MOTOR DATA. (RE-997) 12V

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
RE-997 (12v)	12	12v Constant	3200	1.4	2750	6.3	28	2000	56.5	75	153	11000

MOTOR DATA. (RE-997) 24V

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
RE-997 (24v)	24	24v Constant	3200	0.85	2800	4.4	40	2900	83.4	79	222	15950

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

SUPPLY VOLTAGE	12v
997D41	800
997D491	65
997D1031	31
997D4451	7

SUPPLY VOLTAGE	24v
997D41/24v	800
997D491/24v	65
997D1031/24v	31
997D4451/24v	7

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

WEIGHT	
997D41	2.75kg
997D491	3.69kg
997D1031	3.69kg
997D4451	4.16kg

GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY.

	At 12v (g.cm)	At 24v (g.cm)
4:1	6400	9280
49:1	58800	85260
103:1	123600	125000
445:1	150000	150000

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

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).

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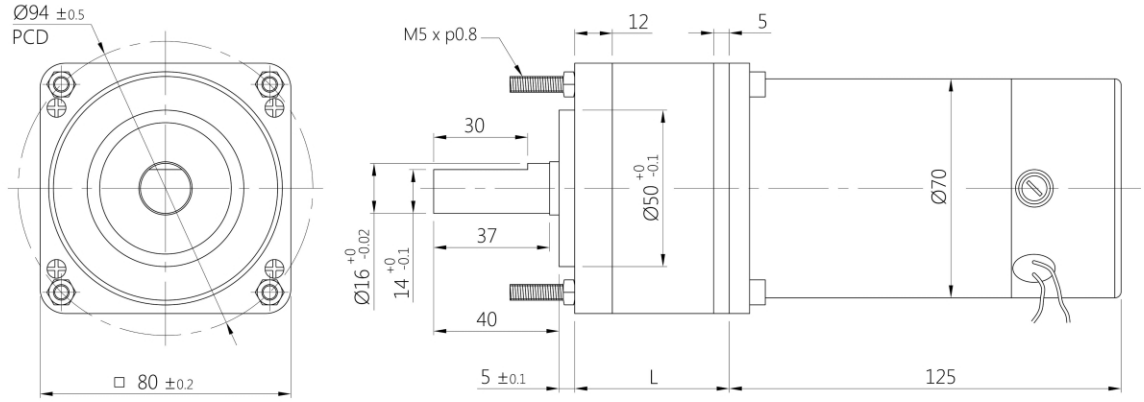
997D SERIES 80mm DIA EPICYCLIC GEARED MOTOR. METAL GEARBOX



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 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 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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