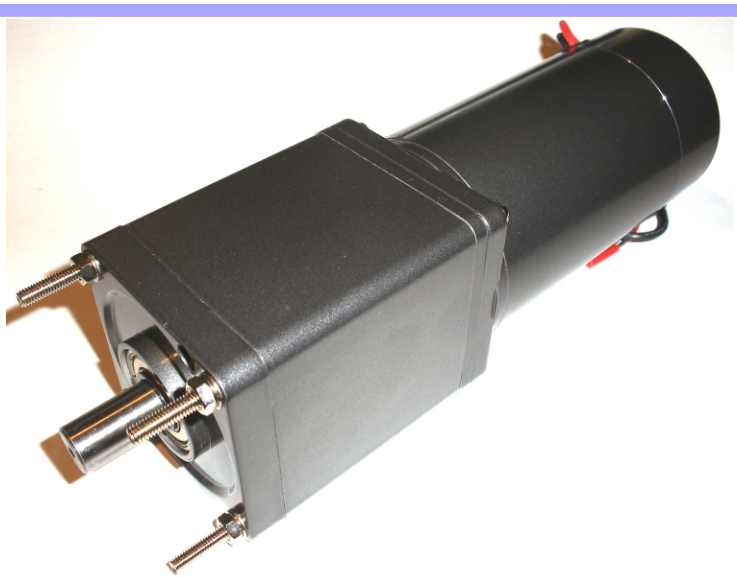
998D SERIES 90mm dia. EPICYCLIC GEARED MOTOR. METAL GEARBOX (RE998 Motor)



RATIOS NOW AVAILABLE.

Fitted with RE998 (12v) Motor:

998D41	Ratio	4:1
998D521	Ratio	52:1
998D981	Ratio	98:1
998D5171	Ratio	517:1

Fitted with RE998 (24v) Motor:

998D41/24V	Ratio	4:1
998D521/24V	Ratio	52:1
998D981/24V	Ratio	98:1
998D5171/24V	Ratio	517:1

Designed for industrial applications this robust unit boasts a powerful high quality 16 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. (RE998)

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
RE998 (12V)	12	12v Constant	2000	1.1	1700	5.3	35	2500	43.6	69	191	13750
RE998 (24V)	24	24v Constant	2000	0.6	1800	3.7	44	3200	59	66	244	17600

GEARBOX DATA.

PART NO	RATIO	REDUCTION TABLE RPM (No Load)°		WEIGHT	TORQUE RATING AT:	
		12v	24v		12v (g.cm)^	24v (g.cm)^
998D41	4:1	500		3.64kg	8000	
998D41/24V	4:1		500	3.64kg		10240
998D521	52:1	38		4.90kg	78000	
998D521/24V	52:1		38	4.90kg		99840
998D981	98:1	20		4.90kg	147000	
998D981/24V	98:1		20	4.90kg		150000
998D5171	517:1	4		5.53kg	180000	
998D5171/24V	517:1		4	5.53kg		180000

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

998D SERIES	
No Load Backlash	Max 4 deg.
Max Radial Load (10mm from flange)	40000gf.
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 gearbox. 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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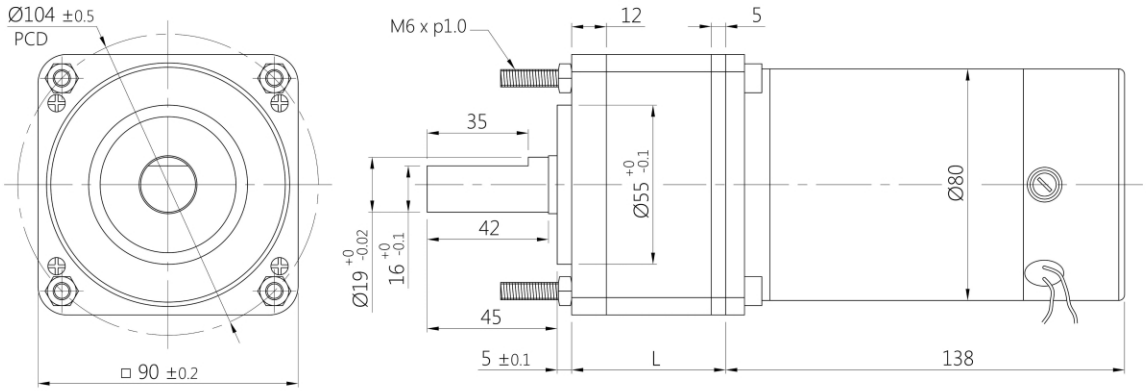
998D SERIES TECHNICAL DRAWING



RATIO	L
4:1	53.3
52:1	86.3
98:1	86.3
517:1	102.8

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 15:1 with 998 motor
GEARBOX 19:1 with 998 motor
GEARBOX 60:1 with 998 motor
GEARBOX 77:1 with 998 motor
GEARBOX 201:1 with 998 motor
GEARBOX 294:1 with 998 motor
GEARBOX 403:1 with 998 motor

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