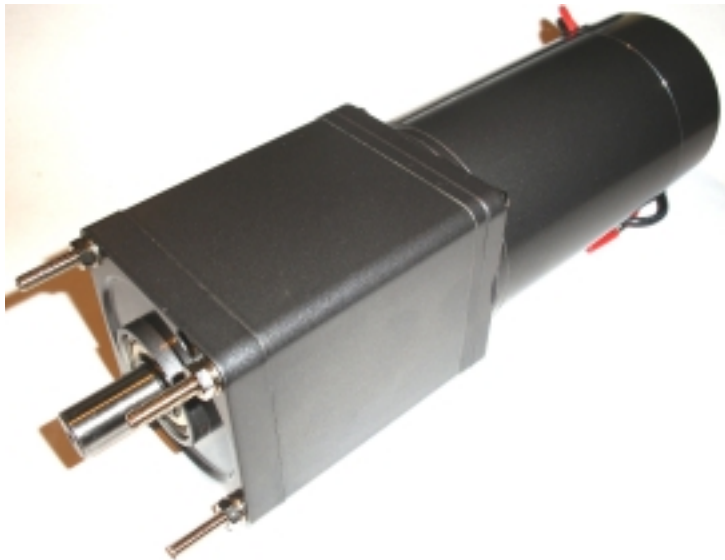


**998D SERIES 90mm DIA EPICYCLIC GEARED MOTOR. METAL GEARBOX**



**(RE 998 MOTOR)**

**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**

998D41	(12v & 24v)	RATIO 4:1
998D521	(12v & 24v)	RATIO 52:1
998D981	(12v & 24v)	RATIO 98:1
998D5171	(12v & 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. 12v d.c.**

MODEL	VOLTAGE		NO LOAD		MAX EFFICIENCY						STALL TORQUE	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	g - cm	
			R.P.M.	mA	R.P.M.	mA	oz - in	g - cm	W	%		
RE998	12.0v	12v CONSTANT	2000	1100	1700	5300		2500	43.6	69		33328

**MOTOR DATA. 24v d.c.**

MODEL	VOLTAGE		NO LOAD		MAX EFFICIENCY						STALL TORQUE	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	g - cm	
			R.P.M.	mA	R.P.M.	mA	oz - in	g - cm	W	%		
RE998 (24v)	24V	24v CONSTANT	2000	600	1800	3700		3200	59.0	66		47190

**REDUCTION TABLE. R.P.M. 12v TYPE.**

SUPPLY VOLTAGE	12.0v
998D41	470
998D521	32
998D981	17
998D5171	3.6

**REDUCTION TABLE. R.P.M. 24v TYPE.**

SUPPLY VOLTAGE	24.0v
998D41	500
998D521	34
998D981	18.5
998D5171	3.7

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

**GEARBOX RATINGS**

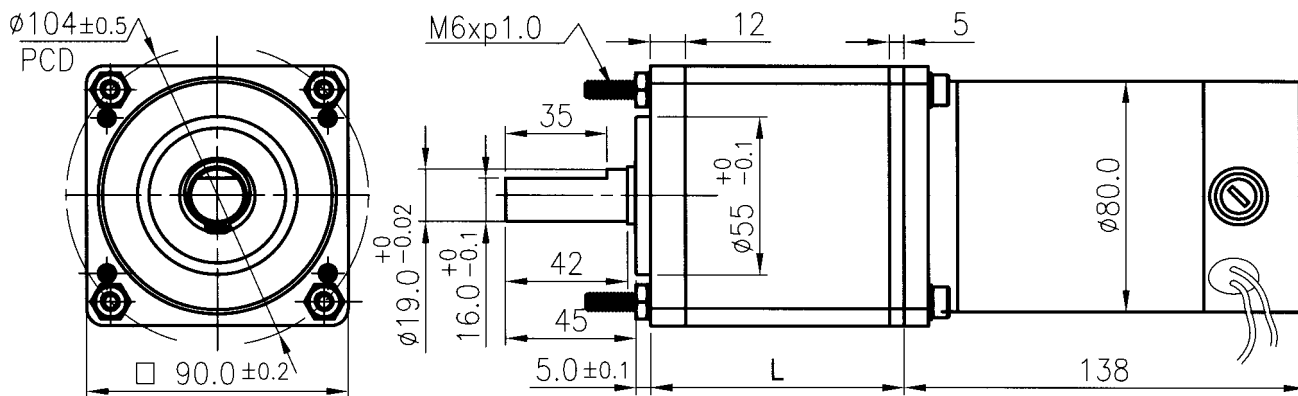
RATED TOLERANCE TORQUE (g.cm)	MAX. MOMENTARY TOLERANCE TORQUE	
4:1	20000	60000
52:1	150000	450000
98:1	150000	450000
517:1	180000	540000

**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. Please refer to the table of the gearbox ratings to ascertain the appropriate geared motor combination.

WEIGHT. Kg.	
998D41	3.64kg
998D521	4.90kg
998D981	4.90kg
998D5171	5.53kg

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

**998D SERIES 90mm DIA (EPICYCLIC) METAL GEARBOX (RE 998 MOTOR)**



GEARBOX REF.	L
998D41 (4:1)	53.3
998D521 (52:1)	86.3
998D981 (98:1)	86.3
998D5171 (517:1)	102.8

**ADVANTAGES OF PLANETARY GEARBOXES.**

<b>EFFICIENCY:</b>	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.
<b>SIZE:</b>	Planetary gearboxes can be half the size of conventional boxes.
<b>WEIGHT:</b>	Weight savings can be as high as 60%, allowing smaller, lighter support structures.
<b>MAINTENANCE:</b>	Other than routine oil changes, no maintenance is required, eliminating the need to hold spares.
<b>REVERSIBLE:</b>	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.
<b>COAXIAL:</b>	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 20:1 with 998 motor

Gearbox 19:1 with 998 motor  
Gearbox 294:1 with 998 motor

Gearbox 60:1 with 998 motor  
Gearbox 403:1 with 998 motor

Gearbox 77:1 with 998 motor