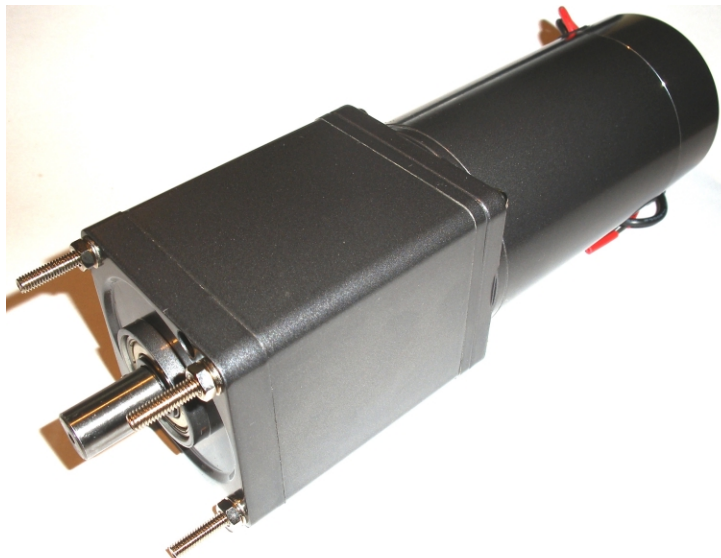


## 996D SERIES 70mm DIA EPICYCLIC GEARED MOTOR. METAL GEARBOX

### RE-996 MOTOR



#### RATIOS NOW AVAILABLE

996D41	(12v)	RATIO 4:1	996D41/24V	(24v)	RATIO 4:1
996D501	(12v)	RATIO 50:1	996D501/24V	(24v)	RATIO 50:1
996D1021	(12v)	RATIO 102:1	996D1021/24V	(24v)	RATIO 102:1
996D4931	(12v)	RATIO 493:1	996D4931/24V	(24v)	RATIO 493:1

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-996) 12V

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL TORQUE		
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	TORQUE	
			R.P.M.	A	R.P.M.	A	oz-in	g-cm	W	%	oz-in	g-cm
RE-996 (12v)	12	12v Constant	2000	0.8	1800	3.0	21	1500	27.7	77	115	8250

#### MOTOR DATA. (RE-996) 24V

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL TORQUE		
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	TORQUE	
			R.P.M.	A	R.P.M.	A	oz-in	g-cm	W	%	oz-in	g-cm
RE-996 (24v)	24	24v Constant	2000	0.4	1800	3.0	35	2500	46.2	64		13750

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

SUPPLY VOLTAGE	12v	SUPPLY VOLTAGE	24v
996D41	500	996D41/24v	500
996D501	40	996D501/24v	40
996D1021	20	996D1021/24v	20
996D4931	4	996D4931/24v	4

WEIGHT	
996D41	2.43kg
996D501	3.09kg
996D1021	3.09kg
996D4931	3.43kg

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

#### GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY.

	At 12v (g.cm)	At 24v (g.cm)
4:1	4800	8000
50:1	45000	75000
102:1	91800	125000
493:1	125000	125000

996D SERIES	
No Load Backlash	Max 3 deg.
Max Radial Load (10mm from flange)	25000gf.
Shaft Axial Load	10000gf.

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

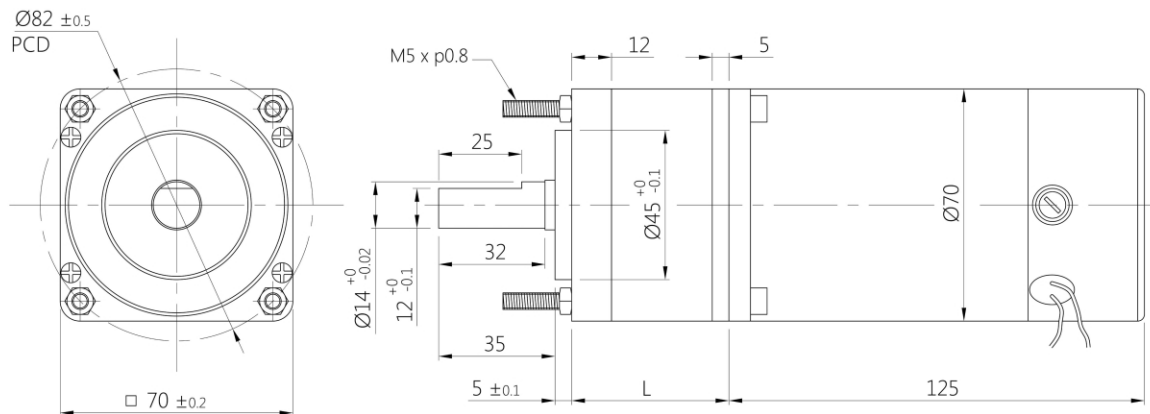
#### IMPORTANT NOTICE

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).

## 996D SERIES 70mm DIA EPICYCLIC GEARED MOTOR. METAL GEARBOX



RATIO	L
4:1	47.3
50:1	80.3
102:1	80.3
493:1	96.8

NOTE: all diameters in mm

### 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 13:1 WITH 996 MOTOR  
 GEARBOX 16:1 WITH 996 MOTOR  
 GEARBOX 20:1 WITH 996 MOTOR  
 GEARBOX 60:1 WITH 996 MOTOR

GEARBOX 75:1 WITH 996 MOTOR  
 GEARBOX 91:1 WITH 996 MOTOR  
 GEARBOX 126:1 WITH 996 MOTOR  
 GEARBOX 189:1 WITH 996 MOTOR

GEARBOX 242:1 WITH 996 MOTOR  
 GEARBOX 300:1 WITH 996 MOTOR  
 GEARBOX 363:1 WITH 996 MOTOR  
 GEARBOX 414:1 WITH 996 MOTOR

GEARBOX 543:1 WITH 996 MOTOR  
 GEARBOX 611:1 WITH 996 MOTOR