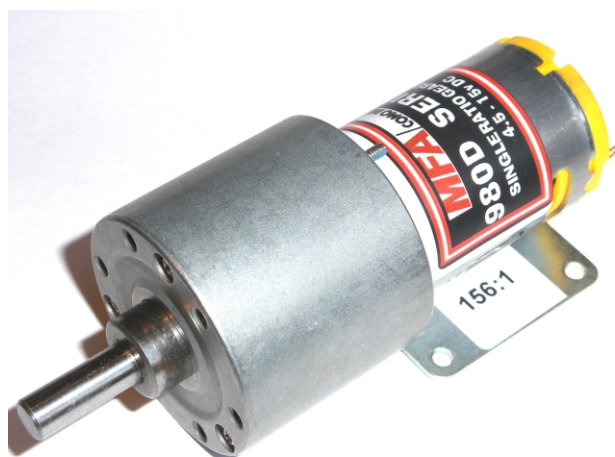


980D SERIES 35mm SINGLE RATIO METAL GEARBOX (CENTRAL OUTPUT SHAFT)

RE-385 MOTOR



Metal Gearbox cover & bracket included with this series

RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

980D61	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 6:1
980D161	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 16:1
980D471	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 47:1
980D1561	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 156:1
980D7501	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 750:1
980D28121	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 2812:1

Designed for heavy-duty industrial and model applications this robust unit boasts a powerful high quality, five pole motor with sintered bronze bearings. The metal gearbox incorporates sleeved bearings, enabling the high torque transfer from the motor to be transmitted through the gearbox. The unit is mounted on a 1mm thick plated steel bracket.

MOTOR DATA. (RE-385)

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 %	TORQUE oz-in	TORQUE g-cm
RE-385	4.5 - 15	12v Constant	11646	0.18	9869	0.99	1.09	78.4	7.9	66.1	7.13	513.5

Stall Current RE-385 at 12v = 4.62A

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

SUPPLY VOLTAGE	4.5v	6v	9v	12v	15v
980D61	728	971	1456	1941	2426
980D161	273	364	546	728	910
980D471	93	124	186	248	310
980D1561	28	38	56	75	94
980D7501	6	8	12	16	20
980D28121	1.5	2	3	4	5

WEIGHT	
980D61	180g
980D161	180g
980D471	189g
980D1561	193g
980D7501	205g
980D28121	208g

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

GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY.

	At 12v (g.cm)
6:1	381
16:1	916
47:1	2432
156:1	6000
750:1	6000
2812:1	6000

980D SERIES	
No Load Backlash	Max 2 deg.
Max Radial Load (10mm from flange)	1000gf.
Shaft Axial Load	700gf.

24 volt versions are available for this range of motor-gearboxes. Performance data is similar to 12 volt versions. This version also has an extended 10mm rear shaft to accommodate motor encoders. When ordering please use 12v version part number suffixed with 24V. I.E. 980D161 will be 980D16124V

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

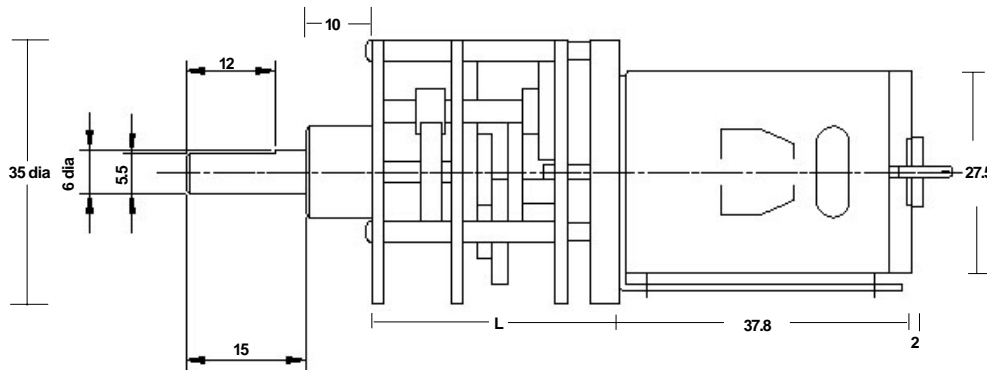
IMPORTANT NOTICE

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).

980D SERIES 35mm SINGLE RATIO METAL GEARBOX (CENTRAL OUTPUT SHAFT)



RATIO	L
6:1	22
16:1	24
47:1	27
156:1	29
750:1	35
2812:1	37

NOTE: all diameters in mm

FOR ACCESSORIES TO FIT THIS SERIES GEARBOX, REFER TO 919D SERIES PAGE.

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 19:1 WITH 385 MOTOR
 GEARBOX 21:1 WITH 385 MOTOR
 GEARBOX 31:1 WITH 385 MOTOR
 GEARBOX 38:1 WITH 385 MOTOR
 GEARBOX 56:1 WITH 385 MOTOR
 GEARBOX 63:1 WITH 385 MOTOR
 GEARBOX 69:1 WITH 385 MOTOR
 GEARBOX 75:1 WITH 385 MOTOR

GEARBOX 94:1 WITH 385 MOTOR
 GEARBOX 104:1 WITH 385 MOTOR
 GEARBOX 113:1 WITH 385 MOTOR
 GEARBOX 125:1 WITH 385 MOTOR
 GEARBOX 169:1 WITH 385 MOTOR
 GEARBOX 188:1 WITH 385 MOTOR
 GEARBOX 219:1 WITH 385 MOTOR
 GEARBOX 234:1 WITH 385 MOTOR

GEARBOX 250:1 WITH 385 MOTOR
 GEARBOX 281:1 WITH 385 MOTOR
 GEARBOX 312:1 WITH 385 MOTOR
 GEARBOX 375:1 WITH 385 MOTOR
 GEARBOX 422:1 WITH 385 MOTOR
 GEARBOX 438:1 WITH 385 MOTOR
 GEARBOX 469:1 WITH 385 MOTOR
 GEARBOX 563:1 WITH 385 MOTOR

GEARBOX 625:1 WITH 385 MOTOR
 GEARBOX 938:1 WITH 385 MOTOR
 GEARBOX 1250:1 WITH 385 MOTOR
 GEARBOX 1875:1 WITH 385 MOTOR
 GEARBOX 2813:1 WITH 385 MOTOR
 GEARBOX 3750:1 WITH 385 MOTOR
 GEARBOX 5625:1 WITH 385 MOTOR