

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

(RE385 Motor)



Metal gearbox cover & bracket included with this series.

## RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

Fitted with RE385 (4.5v - 15v) Motor:

980D61 Ratio 6:1 980D161 Ratio 16:1 980D471 Ratio 47:1 980D1561 156:1 Ratio 980D7501 Ratio 750:1 980D28121 Ratio 2812:1

Designed for heavy-duty industrial and model applications this robust unit boasts a powerful high quality, three 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. (RE385)**

	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY						STALL	
MODEL	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQ	JE	OUTPUT	EFF	TOR	QUE
	RANGE		R.P.M.	Α	R.P.M.	Α	oz-in	g-cm	W	%	oz-in	g-cm
RE385	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: RE385 at 12v = 4.62A

#### **GEARBOX DATA.**

PART NO	RATIO	REDUCTION TABLE RPM (No Load)°					WEIGHT	TORQUE RATING AT:		
		4.5v	6v	9v	12v	15v		12v (g.cm)^		
980D61	6:1	728	971	1456	1941	2426	180g	381		
980D161	16:1	273	364	546	728	910	180g	916		
980D471	47:1	93	124	186	248	310	189g	2432		
980D1561	156:1	28	38	56	75	94	193g	6000		
980D7501	750:1	6	8	12	16	20	205g	6000		
980D28121	2812:1	1.5	2	3	4	5	208g	6000		

NOTES: Motor speeds may vary by + or - 12.5%

<sup>^</sup> Geared Motor Torque Ratings at Maximum Efficiency. To establish Torque Rating in Nm, divide g.cm by 10197.0

980D SERIES	
No Load Backlash	Max 2 deg.
Max Radial Load	1000gf.
(10mm from flange)	
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. ie: 980D161 will be 980D16124V

#### 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).



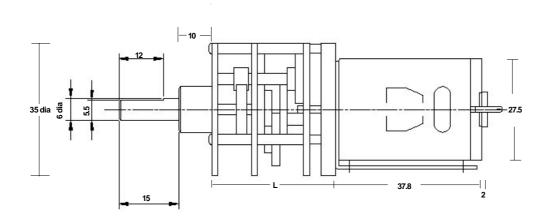
Felderland Lane, Worth, Deal, Kent, CT14 0BT EMAIL: info@mfacomo.com
TEL: 01304 612132 FAX: 01304 614696 WEB: www.mfacomodrills.com



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

(RE385 Motor)

#### 980D SERIES TECHNICAL DRAWING



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					

NOTE: all diameters in mm

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

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 75:1 with 385 motor

GEARROX 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 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



Felderland Lane, Worth, Deal, Kent, CT14 0BT EMAIL: info@mfacomo.com TEL: 01304 612132 FAX: 01304 614696 WEB: www.mfacomodrills.com