

950D SERIES 35mm SINGLE RATIO METAL GEARBOX

RE-385 MOTOR



Plastic Gearbox cover & metal bracket included with this series.

RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

950D2.51	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 2.5:1
950D61	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 6:1
950D111	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 11:1
950D301	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 30:1
950D501	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 50:1
950D1001	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 100:1
950D1481	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 148:1
950D5001	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 500:1
950D8101	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 810:1
950D30001	(4.5v - 15v)	WITH RE 385 MOTOR.	RATIO 3000:1

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	OUTPUT W	EFF %	oz-in	g-cm	
RE-385	4.5 - 15	12v Constant	11646	0.18	9869	0.99	1.09	78.4	7.98	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
950D2.51	1747	2329	3494	4658	5823
950D61	728	971	1456	1941	2426
950D111	397	530	794	1059	1324
950D301	146	194	291	388	485
950D501	87	117	175	233	291
950D1001	44	58	87	116	145
950D1481	30	40	59	79	99
950D5001	9	12	17	23	29
950D8101	5	7	11	14	18
950D30001	1.5	2	3	4	5

WEIGHT	
950D2.51	143g
950D61	149g
950D111	148g
950D301	154g
950D501	159g
950D1001	159g
950D1481	163g
950D5001	165g
950D8101	165g
950D30001	170g

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

GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY.

	At 12v (g.cm)
2.5:1	159
6:1	381
11:1	699
30:1	1717
50:1	2587
100:1	5174
148:1	6000
500:1	6000
810:1	6000
3000:1	6000

950D 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. 950D111 will be 950D11124V

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

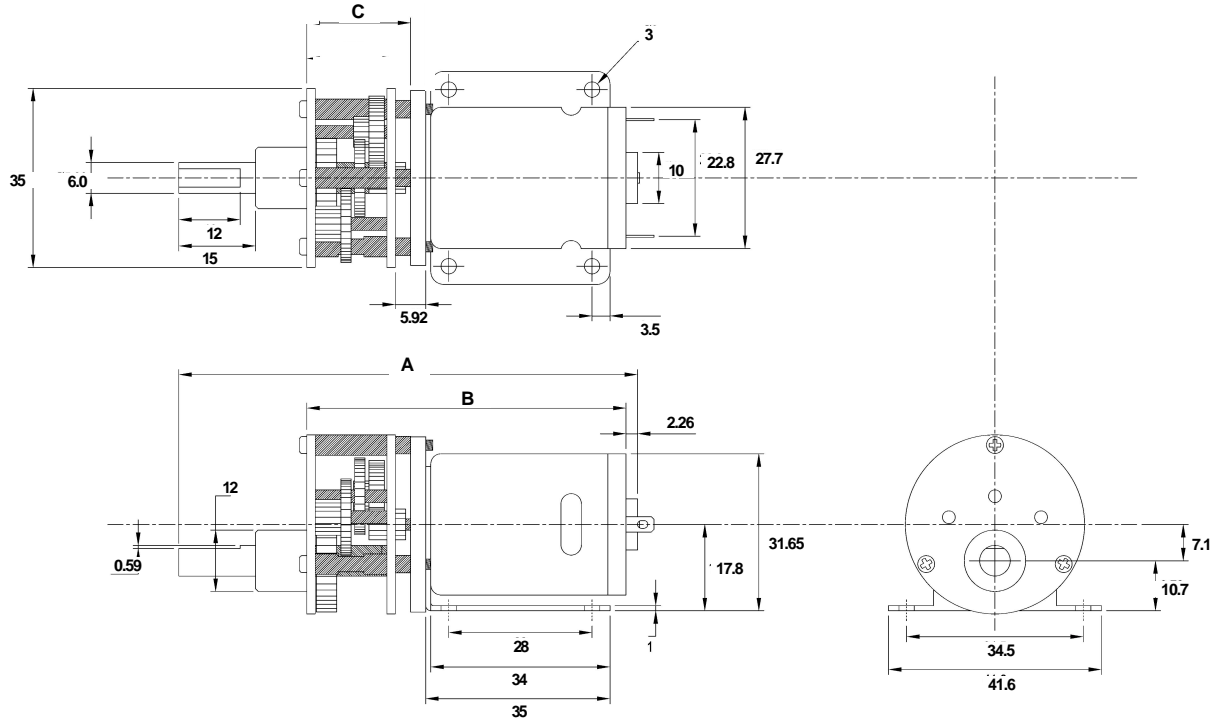
IMPORTANT NOTICE

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).

950D SERIES 35mm SINGLE RATIO METAL GEARBOX



Screws. M2.5 x 5mm.

RATIO	A	B	C
2.5:1	85.7	58.7	16.9
6:1	84.7	57.7	15.9
11:1	84.7	57.7	15.9
30:1	87.2	60.2	18.4
50:1	89.7	62.7	20.9
100:1	89.7	62.7	20.9
148:1	92.2	65.2	23.4
500:1	94.7	67.7	25.9
810:1	94.8	67.8	26.0
3000:1	97.2	70.2	28.4

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 18:1 WITH 385 MOTOR
 GEARBOX 60:1 WITH 385 MOTOR
 GEARBOX 70:1 WITH 385 MOTOR
 GEARBOX 75:1 WITH 385 MOTOR
 GEARBOX 90:1 WITH 385 MOTOR
 GEARBOX 120:1 WITH 385 MOTOR

GEARBOX 180:1 WITH 385 MOTOR
 GEARBOX 200:1 WITH 385 MOTOR
 GEARBOX 250:1 WITH 385 MOTOR
 GEARBOX 300:1 WITH 385 MOTOR
 GEARBOX 350:1 WITH 385 MOTOR
 GEARBOX 400:1 WITH 385 MOTOR

GEARBOX 450:1 WITH 385 MOTOR
 GEARBOX 600:1 WITH 385 MOTOR
 GEARBOX 700:1 WITH 385 MOTOR
 GEARBOX 900:1 WITH 385 MOTOR
 GEARBOX 1000:1 WITH 385 MOTOR
 GEARBOX 1500:1 WITH 385 MOTOR