940DLN SERIES 32mm PLANETRY (EPICYCLIC) METAL GEARBOX (RE385LN Motor)

Geared motor bracket (90 degree)
sold separately
Part No. 727/1

RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.
Fitted with RE385LN (4.5v - 15v) Motor:

940D51LN	Ratio	5:1
940D271LN	Ratio	27:1
940D511LN	Ratio	51:1
940D1001LN	Ratio	100:1
940D1391LN	Ratio	139:1
940D2641LN	Ratio	264:1
940D5161LN	Ratio	516:1
940D7211LN	Ratio	721:1
940D9391LN	Ratio	939:1

Designed for heavier duty industrial and modelling applications. These units boast a high quality five pole low rpm motor providing approx 45% more motor torque than the standard RE385 motor with a considerable reduction in motor noise level. The metal gearbox incorporates sleeve bearings, enabling the high torque transfer from the motor to be transmitted through the gearbox. The 721:1 ratio version has a ballraced output bearing.

MOTOR DATA. (RE385LN)

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 %	oz-in	g-cm
RE385LN	6 - 12	12v Constant	7200	0.19	5950	0.9		110	6.72	62		660

Stall Current: RE385LN at 12v = 5.0A

GEARBOX DATA.

PART NO	RATIO	REDUCTION TABLE RPM (No Load)°					WEIGHT	TORQUE RATING AT:
		4.5v	6v	9v	12v	15v		12v (g.cm)^
940D51LN	5:1	548	876	1095	1460	1825	211g	456
940D271LN	27:1	101	135	203	270	338	229g	2155
940D511LN	51:1	54	72	107	143	179	257g	3488
940D1001LN	100:1	27	37	55	73	91	255g	10000
940D1391LN	139:1	20	26	39	53	66	254g	10000
940D2641LN	264:1	10	14	21	28	35	280g	12000
940D5161LN	516:1	5	7	11	14	18	284g	12000
940D7211LN	721:1	3.8	5	7.6	10	12.7	285g	12000
940D9391LN	939:1	2.9	3.9	5.9	7.8	9.8	281g	12000

NOTES:° Motor speeds may vary by + or - 12.5%
^ Geared Motor Torque Ratings at Maximum Efficiency. To establish Torque Rating in Nm, divide g.cm by 10197.0

940DLN SERIES	
No Load Backlash	Max 2.5 deg.
Max Radial Load (10mm from flange)	3000gf.
Shaft Axial Load	2500gf.

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: 940D1001LN will be 940D1001LN24V

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).

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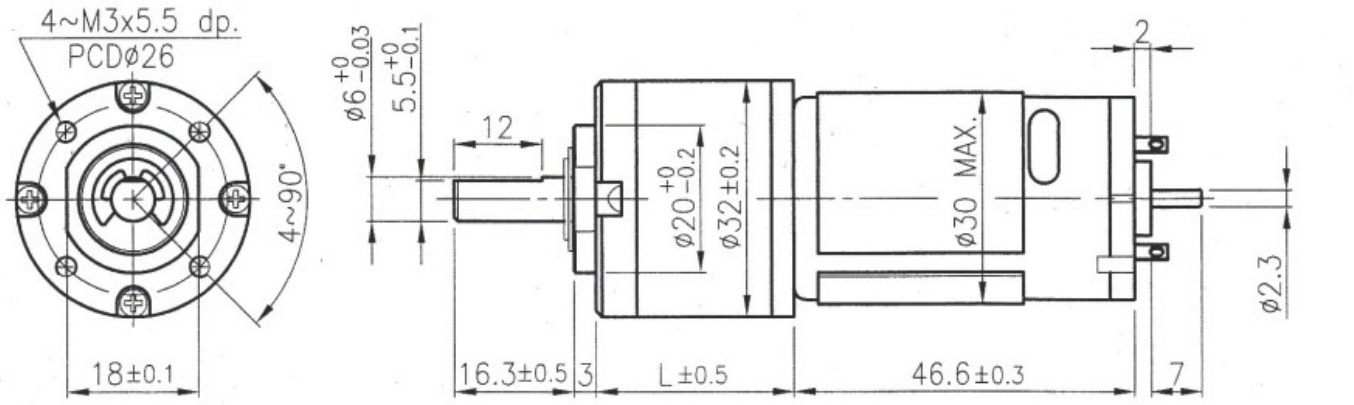
940DLN SERIES TECHNICAL DRAWING



RATIO	L
5:1LN	20.6
27:1LN	27.0
51:1LN	33.4
100:1LN	33.4
139:1LN	33.4
264:1LN	39.8
516:1LN	39.8
721:1LN	39.8
939:1LN	39.8

NOTE: all diameters in mm

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

ADVANTAGES OF PLANETRY GEARBOXES	
EFFICIENCY:	Efficiencies of planetary gearboxes can be above 90% while some other types of transmission can be 50% of less. This allows the use of smaller motors.
SIZE:	Planetary gearboxes can be half the size of conventional boxes.
WEIGHT:	Weight savings can be as high as 60%, allowing smaller, lighter support structures.
MAINTENANCE:	Other than routine oil changes, no maintenance is required, eliminating the need to hold spares.
REVERSIBLE:	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.
COAXIAL:	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 100 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 14:1 with 385 motor
GEARBOX 19:1 with 385 motor
GEARBOX 35:1 with 385 motor
GEARBOX 71:1 with 385 motor
GEARBOX 189:1 with 385 motor

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