

**970DLN SERIES NOISE ATTENUATED 35mm SPUR GEARED MOTOR. (CENTRAL OUTPUT SHAFT)**

**(RE 540LN MOTOR)**



**Metal Gearbox cover included with this series**

**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).

**RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.**

970D61LN	(4.5v - 15v)	WITH RE 540/1LN MOTOR.	RATIO 6:1
970D161LN	(4.5v - 15v)	WITH RE 540/LN1 MOTOR.	RATIO 16:1
970D471LN	(4.5v - 15v)	WITH RE 540/1LN MOTOR.	RATIO 47:1
970D1561LN	(4.5v - 15v)	WITH RE 540/1LN MOTOR.	RATIO 156:1
970D7501LN	(4.5v - 15v)	WITH RE 540/1LN MOTOR.	RATIO 750:1
970D28121LN	(4.5v - 15v)	WITH RE 540/1LN MOTOR.	RATIO 2812:1

Designed for heavier-duty industrial and model applications. These units boast a high quality, five pole low rpm motor providing approx 33% more motor torque than the standard RE540/1 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.

**MOTOR DATA. (RE-540/1LN)**

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY						STALL TORQUE	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	STALL TORQUE	
			R.P.M.	A	R.P.M.	A	oz - in	g - cm	W	%	oz - in	g - cm
RE - 540/1LN	4.5 - 15.0	12.0v CONSTANT	6000	0.25	5216	1.26		206	11	73		1757

Stall Current RE540/1 at 6v = 8.24A

**REDUCTION TABLE. R.P.M.**

SUPPLY VOLTAGE	4.5v	6.0v	9.0v	12.0v
970D61	330	452	690	936
970D161	134	180	274	372
970D471	45	62	94	127
970D1561	13	18	28	37
970D7501	2.7	6	9	15
970D28121	0.7	1	1.5	2.5

WEIGHT	
970D61LN	335g
970D161LN	341g
970D471LN	347g
970D1561LN	355g
970D7501LN	366g
970D28121LN	369g

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

**GEARBOX RATINGS**

RATED TOLERANCE TORQUE (g.cm)	MAX MOMENTARY TOLERANCE TORQUE	
6:1	1000	3000
16:1	2000	6000
47:1	3000	9000
156:1	6000	18000
750:1	6000	18000
2812:1	6000	18000

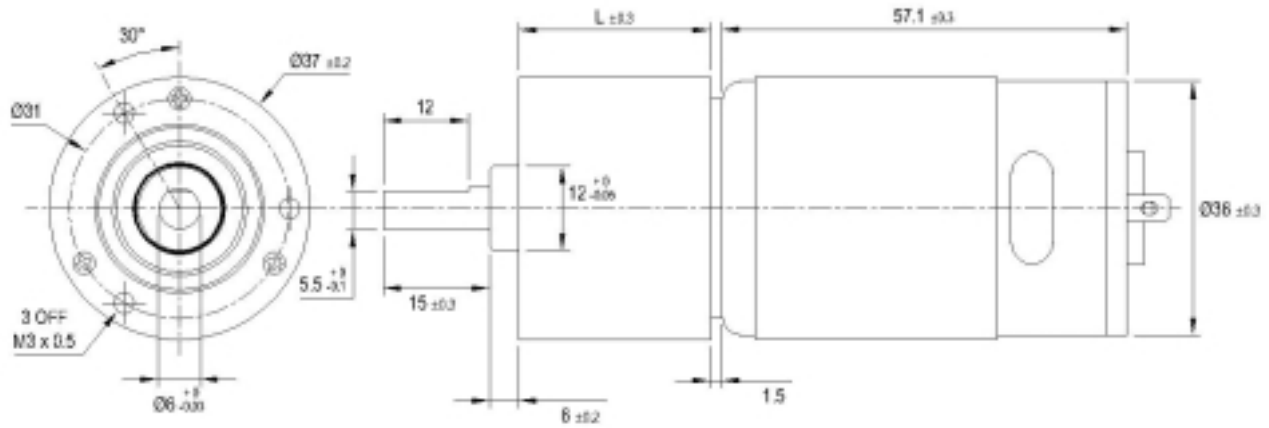
**IMPORTANT NOTICE**  
At very low ratios the torque produced by this geared motor combination may exceed the maximum permissible torque of the gearbox. In this situation the unit must not be allowed to stall as this may damage the gears. Please refer to the table of the gearbox ratings to ascertain the appropriate geared motor combination.

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

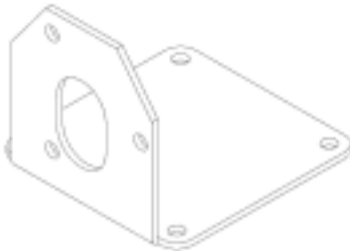
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**(RE 540/1LN MOTOR)**

**GEARBOX DIMENSIONS**



GEARBOX REF.	L
970D61 LN	21.8
970D161LN	24.6
970D471LN	27.1
970D1561LN	29.6
970D7501LN	34.5
970D28121LN	37.0



**Pt. No. 727**  
**Geared motor bracket (90 degree)**

**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 6:1 with 540/1 motor  
 Gearbox 31:1 with 540/1 motor  
 Gearbox 63:1 with 540/1 motor  
 Gearbox 104:1 with 540/1 motor  
 Gearbox 169:1 with 540/1 motor  
 Gearbox 250:1 with 540/1 motor  
 Gearbox 422:1 with 540/1 motor  
 Gearbox 625:1 with 540/1 motor  
 Gearbox 1875:1 with 540/1 motor

Gearbox 16:1 with 540/1 motor  
 Gearbox 38:1 with 540/1 motor  
 Gearbox 69:1 with 540/1 motor  
 Gearbox 113:1 with 540/1 motor  
 Gearbox 188:1 with 540/1 motor  
 Gearbox 281:1 with 540/1 motor  
 Gearbox 438:1 with 540/1 motor  
 Gearbox 750:1 with 540/1 motor  
 Gearbox 2813:1 with 540/1 motor

Gearbox 19:1 with 540/1 motor  
 Gearbox 47:1 with 540/1 motor  
 Gearbox 75:1 with 540/1 motor  
 Gearbox 125:1 with 540/1 motor  
 Gearbox 219:1 with 540/1 motor  
 Gearbox 312:1 with 540/1 motor  
 Gearbox 469:1 with 540/1 motor  
 Gearbox 938:1 with 540/1 motor  
 Gearbox 3750:1 with 540/1 motor

Gearbox 21:1 with 540/1 motor  
 Gearbox 56:1 with 540/1 motor  
 Gearbox 94:1 with 540/1 motor  
 Gearbox 156:1 with 540/1 motor  
 Gearbox 234:1 with 540/1 motor  
 Gearbox 375:1 with 540/1 motor  
 Gearbox 563:1 with 540/1 motor  
 Gearbox 1250:1 with 540/1 motor  
 Gearbox 5625:1 with 540/1 motor