

942DLN SERIES NOISE ATTENUATED 32mm (37mm motor) PLANETRY (EPICYCLIC) METAL GEARBOX

(RE 540LN MOTOR)



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.

| 942D51LN | (4.5v - 15v) | RATIO 5:1 |
|------------|--------------|--------------------|
| 942D271LN | (4.5v - 15v) | RATIO 27:1 |
| 942D511LN | (4.5v - 15v) | RATIO 51:1 |
| 942D1001LN | (4.5v - 15v) | RATIO 100:1 |
| 942D1391LN | (4.5v - 15v) | RATIO 139:1 |
| 942D2641LN | (4.5v - 15v) | RATIO 264:1 |
| 942D5161LN | (4.5v - 15v) | RATIO 516:1 |
| 942D7211LN | (4.5v - 15v) | RATIO 721:1 |

Designed for heavier duty industrial and modelling applications. These units boast a high quality five pole low rpm motor providing approximately 33% more torque than the standard 540/1 motor, with considerable reduction in noise levels. The metal gearbox incorporates sleeve bearings, enabling the high torque transfer to be transmitted through the gearbox. The 721:1 ratio version has a ballraced output bearing.

MOTOR DATA.

| VOLTAGE | | TAGE . | NO LOAD | | MAX EFFICIENCY | | | | STALL | | | | |
|---------|---------|------------|----------------|--------|----------------|-------|---------|----------------------|--------|------|--------|---------|--------|
| | MODEL | OPERATING | | SPEED | CURRENT | SPEED | CURRENT | ENT TORQUE OUTPUT EF | | EFF | TORQUE | | |
| | | RANGE | NOMINAL | R.P.M. | A | R.P.M | Α | oz - in | g - cm | w | % | oz - in | g - cm |
| | RE540LN | 4.5 - 15.0 | 12.0v CONSTANT | 6,000 | 0.17 | 4930 | 1.6 | 2.88 | 250 | 12.8 | 67 | 24.4 | 1375 |

Stall Current RE540/1 at 6v = 8.24A

REDUCTION TABLE. R.P.M. (no load)

| SUPPLY VOLTAGE | 4.5v | 6.0v | 9.0v | 12.0v | 15.0v |
|----------------|------|------|------|-------|-------|
| 942D51LN | 450 | 600 | 900 | 1200 | 1500 |
| 942D271LN | 83 | 111 | 167 | 222 | 277 |
| 942D511LN | 44 | 59 | 88 | 118 | 147 |
| 942D1001LN | 23 | 30 | 45 | 60 | 75 |
| 942D1391LN | 16 | 22 | 32 | 43 | 53 |
| 942D2641LN | 9 | 11 | 17 | 23 | 28 |
| 942D5161LN | 4 | 6 | 9 | 12 | 15 |
| 942D7211LN | 3 | 4 | 6.2 | 8.3 | 10 |

Shaft Axial Load: 2500qf.

| WEIGHT | |
|------------|------|
| 942D51LN | 320g |
| 942D271LN | 337g |
| 942D511LN | 364g |
| 942D1001LN | 363g |
| 942D1391LN | 362g |
| 942D2641LN | 390g |
| 942D5161LN | 390g |
| 942D7211LN | 387g |

GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY. Note: Motor speeds may vary by (+) or (-) 12.5%

| 942DLN SERIE | S |
|--------------------|--------------|
| No load Backash: | Max 2.5 deg. |
| Max Radial Load: | 3000gf. |
| (10mm from flange) | |

| GLANL | J IVIO I | OIL | IONQUE |
|------------------|----------|-----|--------|
| At 12V (g.cm) | | | |
| 5:1LN | 824 | | |
| 27:1LN | 3893 | | |
| 51:1LN | 6304 | | |
| 100:1LN | 10000 | | |
| 139:1LN | 10000 | | |
| 264:1LN | 12000 | | |
| 516:1LN | 12000 | | |
| 721:1LN | 12000 | | |

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.

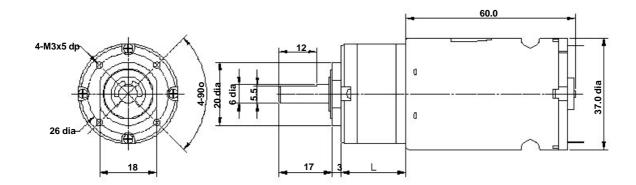
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942DLN SERIES NOISE ATTENUATED 32mm (37mm motor) PLANETRY (EPICYCLIC) METAL GEARBOX





Pt. No. 727/1 Geared motor bracket (90 degree)

| GEARBOX REF. | L |
|--------------------|------|
| 942D51LN (5:1) | 20.8 |
| 942D271LN (27:1) | 26.5 |
| 942D511LN (51:1) | 32.5 |
| 942D1001LN (100:1) | 33.6 |
| 942D1391LN (139:1) | 33.4 |
| 942D2641LN (264:1 | 40.0 |
| 942D5161LN (516:1 | 40.0 |
| 942D7211LN (721:1 | 40.0 |

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

| ADVANTAGES OF PLANETARY GEARBOXES. | | | |
|------------------------------------|--|--|--|
| EFFICIENCY: | Efficiencies of planetary gearboxes can be above 90% while some other types of transmission can be 50% or 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 540/1 MOTOR GEARBOX 35:1 WITH 540/1 MOTOR GEARBOX 189:1 WITH 540/1 MOTOR

GEARBOX 19:1 WITH 540/1 MOTOR. GEARBOX 71:1 WITH 540/1 MOTOR. GEARBOX 939:1 WITH 540/1 MOTOR

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