

| Order code | Manufacturer code | Description |
|------------|-------------------|--|
| 37-1201 | n/a | MINIATURE EPICYCLIC GEARBOX 4:1 (RC) |
| 37-1202 | n/a | MINIATURE EPICYCLIC GEARBOX 62:1 (RC) |
| 37-1203 | n/a | MINIATURE EPICYCLIC GEARBOX 104:1 (RC) |
| 37-1204 | n/a | MINIATURE EPICYCLIC GEARBOX 231:1 (RC) |

| | |
|--|--------------------------|
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| The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E. | Revision A 04/07/2003 |

**944D SERIES PLANETRY (EPICYCLIC) MINIATURE METAL GEARBOX
(PRECIOUS METAL BRUSHES)**



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.

| | | |
|----------|------------|-------------|
| 944D41 | (6v - 12v) | RATIO 4:1 |
| 944D621 | (6v - 12v) | RATIO 62:1 |
| 944D1041 | (6v - 12v) | RATIO 104:1 |
| 944D2311 | (6v - 12v) | RATIO 231:1 |

Designed for smaller industrial and model applications this robust unit boasts a powerful high quality motor with precious metal brushes & sintered bronze bearings. The gearbox incorporates sleeved bearings, enabling the high torque transfer from the motor to be transmitted through the gearbox.

MOTOR DATA.

| MODEL | VOLTAGE | | NO LOAD | | MAX EFFICIENCY | | | | | | STALL TORQUE | |
|--------|-----------------|----------------|---------|---------|----------------|---------|---------|--------|--------|-----|--------------|--------|
| | OPERATING RANGE | NOMINAL | SPEED | CURRENT | SPEED | CURRENT | TORQUE | | OUTPUT | EFF | STALL TORQUE | |
| | | | R.P.M. | mA | R.P.M | mA | oz - in | g - cm | W | % | oz - in | g - cm |
| (944D) | 6 - 12.0v | 12.0v CONSTANT | 8000 | 70 | 6650 | 200 | 0.25 | 18 | 1.25 | 52 | 1.4 | 100 |

REDUCTION TABLE. R.P.M. AT 12V (NO LOAD)

| SUPPLY VOLTAGE | 12.0v |
|----------------|-------|
| 944D41 | 2000 |
| 944D621 | 128 |
| 944D1041 | 76 |
| 944D2311 | 33 |

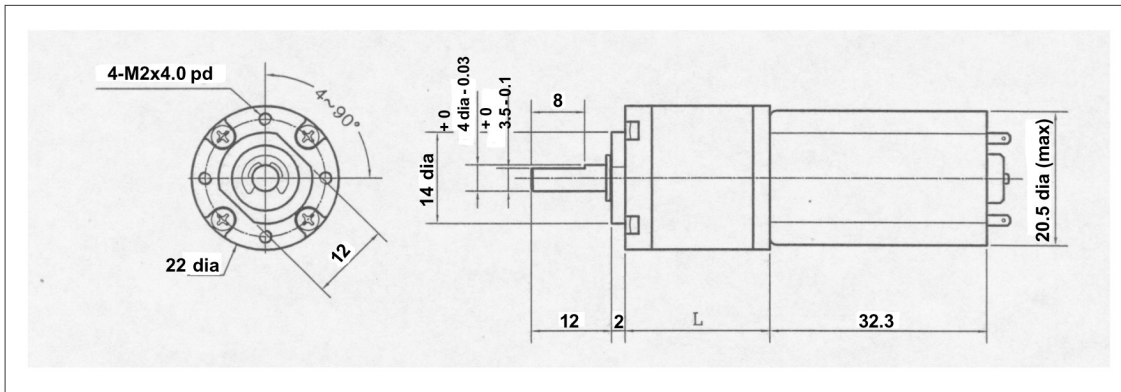
| WEIGHT | |
|----------|-----|
| 944D41 | 52g |
| 944D621 | 65g |
| 944D1041 | 67g |
| 944D2311 | 70g |

| RATED TOLERANCE TORQUE (g.cm) | MAX MOMENTARY TOLERANCE TORQUE | |
|-------------------------------|--------------------------------|------|
| 4:1 | 1000 | 3000 |
| 62:1 | 2000 | 6000 |
| 104:1 | 2000 | 6000 |
| 231:1 | 2500 | 7500 |

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

**944D SERIES PLANETARY (EPICYCLIC) MINIATURE METAL GEARBOX
PRECIOUS METAL BRUSHES)**

GEARBOX DIMENSIONS



| GEARBOX REF. | L |
|------------------|-------|
| 944D41 (4:1) | 14.4 |
| 944D621 (62:1) | 21.7 |
| 944D1041 (104:1) | 21.7 |
| 944D2311 (231:1) | 25.35 |

FOR ACCESSORIES TO FIT THIS SERIES GEARBOX, REFER TO 918D 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.

- 316:1
- 379:1
- 455:1
- 1014:1
- 1621:1
- 1996:1