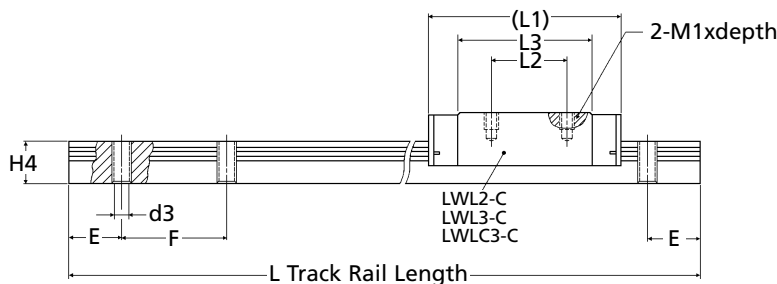
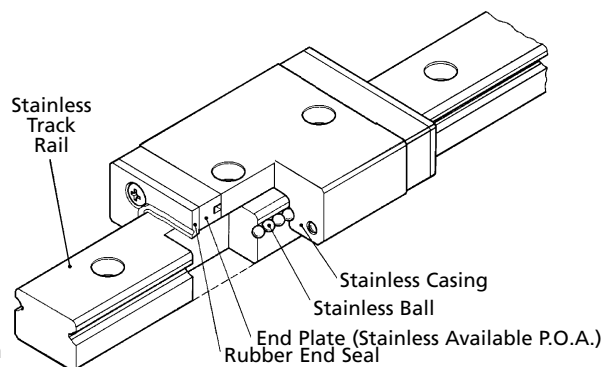
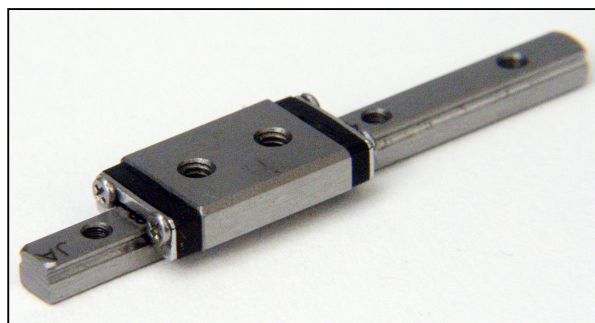


**LWL**  
**LWL-C**  
**LWLC-C**

# LINEAR MOTION

## Precision Linear Slides - Stainless

L-Series Non Ball Retained - 2 Row 4 point Ball Contact



| Part Number | L Track Rail Length | No. of Holes | Max. Length | Carriage (Slide Unit) | Price Each    |        |
|-------------|---------------------|--------------|-------------|-----------------------|---------------|--------|
| LWL2-32     | 32                  | 4            | 104         | -                     | £P.O.A        |        |
| LWL2-40     | 40                  | 5            |             | -                     | £P.O.A        |        |
| LWL2-48     | 48                  | 6            |             | -                     | £P.O.A        |        |
| LWL2-56     | 56                  | 7            |             | -                     | £P.O.A        |        |
| LWL2-64     | 64                  | 8            |             | -                     | £P.O.A        |        |
| LWL2-72     | 72                  | 9            |             | -                     | £P.O.A        |        |
| LWL2-80     | 80                  | 10           |             | -                     | £P.O.A        |        |
| LWL2-88     | 88                  | 11           |             | -                     | £P.O.A        |        |
| LWL2-96     | 96                  | 12           |             | -                     | £P.O.A        |        |
| LWL2-104    | 104                 | 13           |             | -                     | £P.O.A        |        |
| LWL2-C      | Carriage            |              |             |                       | Standard Type | £P.O.A |
| LWL3-30     | 30                  | 3            |             | 150                   | -             | £24.32 |
| LWL3-40     | 40                  | 4            |             |                       | -             | £26.47 |
| LWL3-60     | 60                  | 6            | -           |                       | £30.81        |        |
| LWL3-80     | 80                  | 8            | -           |                       | £35.72        |        |
| LWL3-100    | 100                 | 10           | -           |                       | £41.09        |        |
| LWL3-110    | 110                 | 11           | -           |                       | £43.79        |        |
| LWL3-120    | 120                 | 12           | -           |                       | £46.99        |        |
| LWL3-130    | 130                 | 13           | -           |                       | £50.31        |        |
| LWL3-140    | 140                 | 14           | -           |                       | £53.53        |        |
| LWL3-150    | 150                 | 15           | -           |                       | £56.80        |        |
| LWL3-C      | Carriage            |              |             |                       | Standard Type | £67.56 |
| LWLC3-C     | Carriage            |              |             |                       | Short Type    | £56.80 |

A minimum of 1 carriage per rail must be ordered

### Material

Rail, Carriage & Balls: Stainless Steel. Hardened Similar to 440c. End Plates: Synthetic Resin. End Seals: Rubber

### Performance

Max. Speed: 3m/sec. Maximum Temperature: +100°C (Constant), +120°C (Intermittent)

### Other Info.

**Characteristics:** Easy handling (non ball retained - balls liable to falling out if carriage removed). Easy maintenance. Smooth operation. Low noise. High accuracy. Long life. High reliability. Load Torques need de-rating for Static safety factors 1~5, or Dynamic 1~3

**Lubrication:** Every 6 months under general use. Every 3 months for daily use. Use a lithium-soap based grease. (Oil can be used).

When ordering track rail, please order carriages required (1, 2, 3, etc.) per rail. For example:

Standard slide assembly of 1 x LWL3-80 rail and 2 x LWL3-C carriages = **LWL3-80C2**.

Short slide assembly of 1 x LWL3-80 rail and 1 x LWLC3-C carriages = **LWLC3-80C1**

Carriages and tracks are produced to suit each individual set.

+44 (0)1246 455500  
+44 (0)1246 455522

**ondrives**

sales@ondrives.com  
www.ondrives.com

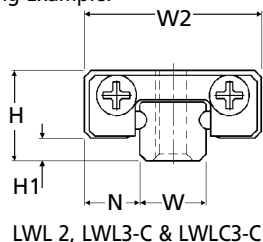
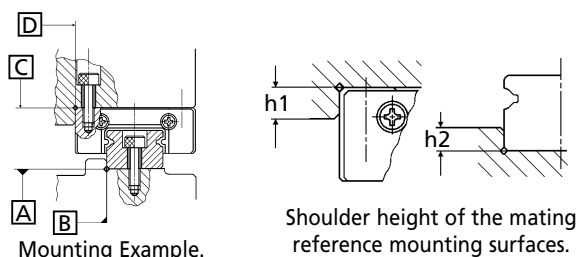
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

# LINEAR MOTION

## Precision Linear Slides - Stainless

L-Series Non Ball Retained - 2 Row 4 point Ball Contact

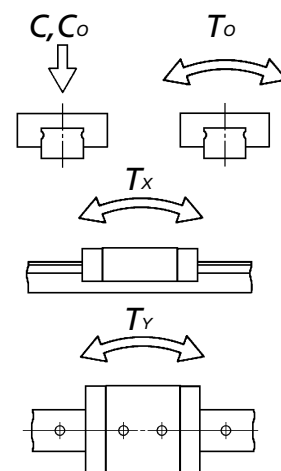
**LWL**  
**LWL-C**  
**LWLC-C**



| Model Number | Slide Unit Shoulder Height $h_1$ | Track Rail Shoulder Height $h_2$ |
|--------------|----------------------------------|----------------------------------|
| LWL 2        | 1.0                              | 0.5                              |
| LWL 3        | 1.2                              | 0.8                              |

Figures shown in  $T_o$  column and upper figures of all  $T_x$  and  $T_y$  of each model number apply to one slide unit as illustrated right.

The values shown below the single case figures for  $T_x$  and  $T_y$  are for two slide units in close contact.



|  | Part Number          |                      |                      |
|--|----------------------|----------------------|----------------------|
|  | LWL2-C               | LWLC3-C              | LWL3-C               |
| <b>Weight g</b>                        |                      |                      |                      |
| Carriage (Slide Unit)                  | 0.90                 | 1.00                 | 1.60                 |
| Track Rail per 100mm                   | 2.80                 | 5.30                 | 5.30                 |
| <b>Dimensions of Assembly mm</b>       |                      |                      |                      |
| $H \pm 0.020$ (Std.) ( $P \pm 0.010$ ) | 3.20                 | 4.00                 | 4.00                 |
| H1                                     | 0.70                 | 1.00                 | 1.00                 |
| $N \pm 0.025$ (Std.) ( $P \pm 0.015$ ) | 2.00                 | 2.50                 | 2.50                 |
| <b>Dimensions of Slide Unit mm</b>     |                      |                      |                      |
| W2                                     | 6.00                 | 8.00                 | 8.00                 |
| L1                                     | 12.40                | 12.00                | 16.00                |
| L2                                     | 4.00                 | 3.50                 | 5.50                 |
| L3                                     | 8.80                 | 6.70                 | 10.70                |
| M1 x Depth                             | M1.4 x 1.1 (0.10 Nm) | M1.6 x 1.3 (0.15 Nm) | M2 x 1.3 (0.31 Nm)   |
| <b>Dimensions of Track Rail mm</b>     |                      |                      |                      |
| W                                      | 2.00                 | 3.00                 | 3.00                 |
| H4                                     | 2.00                 | 2.60                 | 2.60                 |
| d3                                     | M1 Thro. (0.04 Nm)   | M1.6 Thro. (0.15 Nm) | M1.6 Thro. (0.15 Nm) |
| E                                      | 4.00                 | 5.00                 | 5.00                 |
| F                                      | 8.00                 | 10.00                | 10.00                |
| <b>Basic Dynamic Load Rating</b>       |                      |                      |                      |
| C N                                    | 204.00               | 245.00               | 339.00               |
| <b>Basic Static Load Rating</b>        |                      |                      |                      |
| Co N                                   | 395.00               | 375.00               | 609.00               |
| <b>Static Rated Moment</b>             |                      |                      |                      |
| To Nm                                  | 0.43                 | 0.60                 | 0.97                 |
| Tx Nm                                  | 0.56                 | 0.41                 | 1.00                 |
|  | 3.00                 | 3.00                 | 6.10                 |
| Ty Nm                                  | 0.67                 | 0.49                 | 1.20                 |
|  | 3.60                 | 3.50                 | 7.20                 |

### Performance

**Dim Variation Between Carriage Slides on Same Rail (Std. Grade):**  $H = 0.015$ ,  $N = 0.020$

**Dim Variation Between Carriage Slides on Same Rail (High Precision P Grade - P.O.A.):**  $H = 0.007$ ,  $N = 0.010$

**Parallelism in Operation Over:** 100mm = 0.005mm, 250mm = 0.008mm, 500mm = 0.012mm, 1000mm = 0.018mm (A to C and D to B).

A higher tolerance grade is available. P.O.A.

**Load Direction:** If upward or downward, as table. If lateral, dynamic x 1.13 C, Static x 1.19 Co.

**Dynamic Rating:** From a group of the same slide units, 90% achieve a distance of  $50 \times 10^3$  metres.

For temperatures over 100°C (max. 120°C) we can supply special high temperature grease (clean room quality supplied in syringe) **CG2-SY : £31.80**

Preload is available (To) zero to minimal clearance, zero to minimal preload, (T1) 0.02 Co preload.