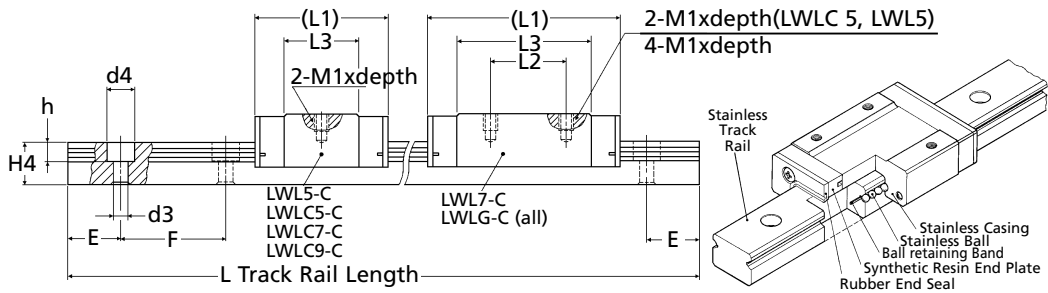
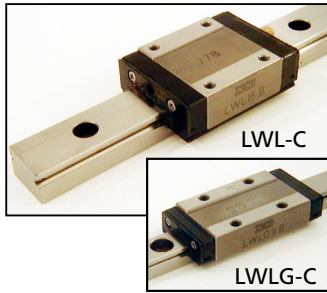


**LWL**  
**LWL-C**  
**LWLC-C**  
**LWLG-C**

# 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	
LWL5-45	45	3	210 Special Lengths - P.O.A. Max end butt 915mm	-	£24.60	
LWL5-60	60	4		-	£28.04	
LWL5-90	90	6		-	£34.94	
LWL5-120	120	8		-	£42.78	
LWL5-150	150	10		-	£51.67	
LWL5-180	180	12		-	£61.51	
LWL5-195	195	13		-	£67.45	
LWL5-210	210	14		-	£51.67	
LWL5-C	Carriage (with oil hole H3)				Standard Type	£67.56
LWLC5-C	Carriage (with oil hole H3)				Short Type	£56.80
LWL7-60	60	4		300 Special Lengths - P.O.A. Max end butt 1905mm	-	£26.15
LWL7-120	120	8			-	£39.86
LWL7-150	150	10			-	£46.99
LWL7-180	180	12			-	£56.39
LWL7-240	240	16	-		£77.92	
LWL7-300	300	20	-		£105.31	
LWL7-C	Carriage (with oil hole H3)				Standard Type	£57.02
LWLC7-C	Carriage (with oil hole H3)				Short Type	£49.11
LWLG7-C	Carriage (with oil hole H3)				High Rigidity long Type	£70.26
LWL9-60	60	3	860 Special Lengths - P.O.A. Max end butt 1660mm		-	£34.57
LWL9-120	120	6			-	£51.71
LWL9-180	180	8			-	£75.45
LWL9-240	240	12			-	£100.35
LWL9-280	280	14			-	£117.37
LWL9-320	320	16		-	£135.69	
LWL9-380	380	19		-	£165.14	
LWL9-420	420	21		-	£186.15	
LWL9-480	480	24		-	£216.95	
LWL9-560	560	28		-	£264.21	
LWL9-680	680	32		-	£331.21	
LWL9-720	720	36		-	£350.70	
LWL9-860	860	43		-	£431.58	
LWL9-C	Carriage (with oil hole H3)				Standard Type	£70.11
LWLC9-C	Carriage (with oil hole H3)			Short Type	£55.41	
LWLG9-C	Carriage (with oil hole H3)			High Rigidity long Type	£79.69	

### 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 (Ball retaining band structure, prevents balls falling out).

Easy maintenance. Smooth operation. Low noise. High accuracy. Long life. High reliability.

**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 LWL7-300 rail and 2 x LWL7-C carriages = **LWL7-300C2**.

High Rigidity slide assembly of 1 x LWL9-480 rail and 1 x LWL9-C carriages = **LWLG7-480C1**

Carriages and tracks are produced to suit each individual set.

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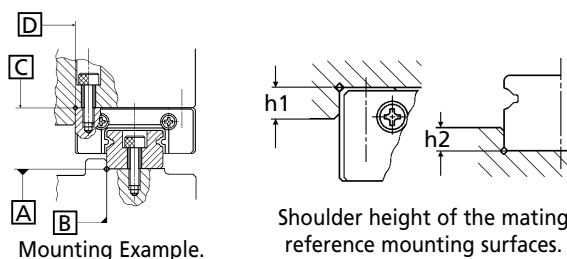
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

# LINEAR MOTION

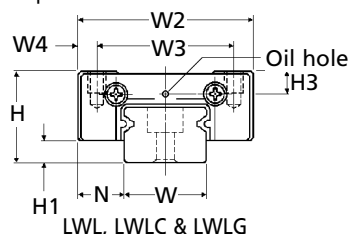
LWL  
LWL-C  
LWLC-C  
LWLG-C

## Precision Linear Slides - Stainless

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



Mounting Example.



Model Number	Slide Unit Shoulder Height h1	Track Rail Shoulder Height h2
LWL 5	2.0	0.8
LWL 7	2.5	1.2
LWL 9	3.0	1.5

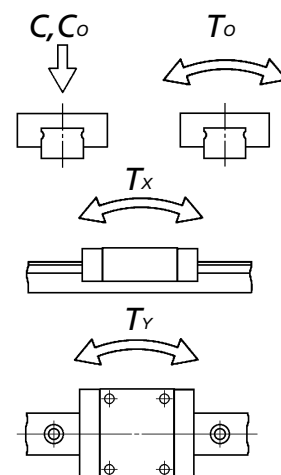
Figures shown in  $T_0$  column and upper figures of all  $T_x$  and  $T_y$  of each model number apply to one slide unit as illustrated right.

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

Dim. variation of H for multiple assembly sets :

Std.: 0.030

High Precision (P): 0.020



	Part Number							
	LWL5-C	LWLC5-C	LWL7-C	LWLC7-C	LWLG7-C	LWL9-C	LWLC9-C	LWLG9-C
<b>Weight g</b>								
Carriage (Slide Unit)	4.40	3.40	10.00	7.10	14.00	19.00	11.00	28.00
Track Rail per 100mm	12.00	12.00	22.00	22.00	22.00	35.00	35.00	35.00
<b>Dimensions of Assembly mm</b>								
H ± 0.020 (Std.) (P=±0.010)	6.00	6.00	8.00	8.00	8.00	10.00	10.00	10.00
H1	1.00	1.00	1.50	1.50	1.50	2.00	2.00	2.00
N ± 0.025 (Std.) (P=±0.015)	3.50	3.50	5.00	5.00	5.00	5.50	5.50	5.50
<b>Dimensions of Slide Unit mm</b>								
W2	12.00	12.00	17.00	17.00	17.00	20.00	20.00	20.00
W3	8.00	8.00	12.00	12.00	12.00	15.00	15.00	15.00
W4	2.00	2.00	2.50	2.50	2.50	2.50	2.50	2.50
L1	19.00	16.00	23.50	19.00	31.00	30.00	21.50	40.50
L2	-	-	8.00	-	12.00	10.00	-	15.00
L3	12.60	9.60	14.30	9.60	21.60	20.80	11.90	30.90
M1 x Depth	M2x1.5 (0.31Nm)	M2x1.5 (0.31Nm)	M2x2.5 (0.31Nm)	M2x2.5 (0.31Nm)	M2x2.5 (0.31Nm)	M3x3 (1.1Nm)	M3x3 (1.1Nm)	M3x3 (1.1Nm)
H3	1.20	1.20	1.50	1.50	1.50	2.20	2.20	2.20
<b>Dimensions of Track Rail mm</b>								
W	5.00	5.00	7.00	7.00	7.00	9.00	9.00	9.00
H4	3.70	3.70	5.00	5.00	5.00	6.00	6.00	6.00
d3	2.40	2.40	2.40	2.40	2.40	3.50	3.50	3.50
d4	3.60	3.60	4.20	4.20	4.20	6.00	6.00	6.00
h	0.80	0.80	2.30	2.30	2.30	3.50	3.50	3.50
E	7.50	7.50	7.50	7.50	7.50	10.00	10.00	10.00
F	15.00	15.00	15.00	15.00	15.00	20.00	20.00	20.00
<b>Track Rail Mounting Bolt</b>	M2 x 6	M2 x 6	M2 x 6	M2 x 6	M2 x 6	M3 x 8	M3 x 8	M3 x 8
<b>Basic Dynamic Load Rating</b>								
C N	612.00	514.00	1200.00	856.00	1510.00	1610.00	1070.00	2080.00
<b>Basic Static Load Rating</b>								
Co N	1130.00	872.00	1960.00	1180.00	2750.00	2860.00	1540.00	4180.00
<b>Static Rated Moment</b>								
To Nm	3.00	2.30	7.20	4.30	10.00	13.30	7.20	19.40
Tx Nm	2.40	1.40	4.90	1.90	9.10	9.40	3.00	19.40
Ty Nm	13.30	8.90	29.20	15.40	52.60	53.00	22.20	102.00
	2.00	1.20	4.10	1.60	7.70	7.90	2.50	16.30
	11.20	7.40	24.50	12.90	44.10	44.50	18.60	85.60

### 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 x 10<sup>3</sup> 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.

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