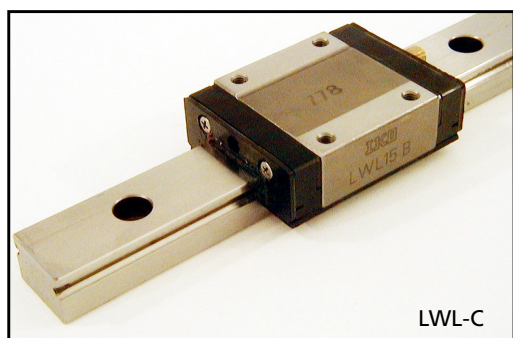


**CLWL  
CLWL-C**

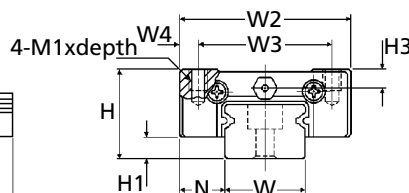
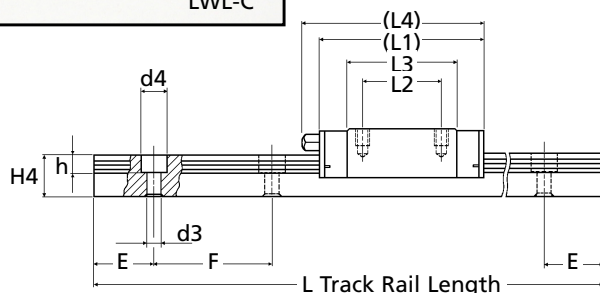
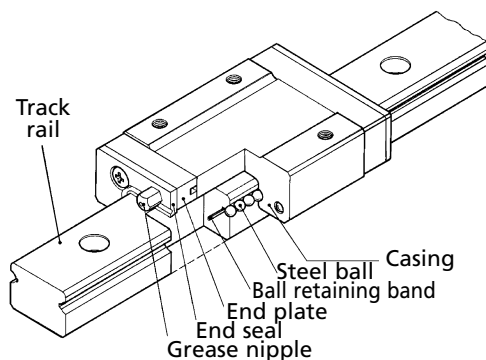
# LINEAR MOTION

## Precision Linear Slides

CL-Series Ball Retained



LWL-C



PART NUMBER	L Track Rail Length	No. of Holes	Max. Length	Carriage (Slide Unit)	Price Each
CLWL960	60	3	1000	-	£30.05
CLWL9120	120	6		-	£44.83
CLWL9240	240	12		-	£82.19
CLWL9480	480	24		-	£156.64
CLWL9720	720	36		-	£236.44
CLWL9-C	Carriage			Standard Slide	£53.91
CLWL1250	50	2	1500	-	£26.40
CLWL12100	100	4		-	£40.65
CLWL12200	200	8		-	£69.36
CLWL12400	400	16		-	£126.70
CLWL121000	1000	40		-	£315.35
CLWL12-C	Carriage			Standard Slide	£57.23
CLWL1580	80	2	1520	-	£31.02
CLWL15120	120	3		-	£42.96
CLWL15240	240	6		-	£78.80
CLWL15480	480	12		-	£155.21
CLWL15960	960	24		-	£336.77
CLWL15-C	Carriage			Standard Slide	£66.81
CLWL20120	120	2	1560	-	£47.91
CLWL20240	240	4		-	£96.06
CLWL20480	480	8		-	£189.09
CLWL20960	960	16		-	£378.76
CLWL201440	1440	24		-	£600.42
CLWL20-C	Carriage			Standard Slide	£73.57

### Material

Carbon Steel Hardened.

A minimum of 1 carriage per rail must be ordered

### Performance

Maximum 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: 1 x CLWL12100 rail and 2 x CLWL12-C carriages = **CLWL12100C2**  
Carriages and tracks are produced to suit each individual set.

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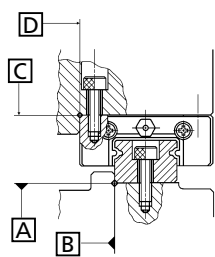
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

# LINEAR MOTION

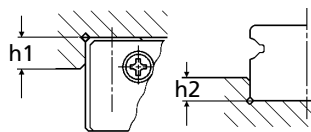
**CLWL  
CLWL-C**

## Precision Linear Slides

CL-Series Ball Retained



Mounting Example.

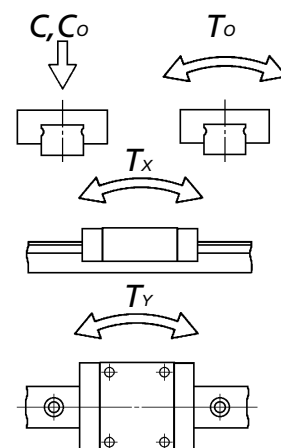


Shoulder height of the mating reference mounting surfaces.

Model Number	Slide Unit Shoulder Height h1	Track Rail Shoulder Height h2
CLWL 9	3.0	1.5
CLWL12	4.0	2.5
CLWL15	4.5	3.0
CLWL20	5.0	4.0

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			
	CLWL 9-C	CLWL 12-C	CLWL 15-C	CLWL 20-C
<b>Weight g</b>				
Carriage (Slide Unit)	19.00	35.00	64.00	133.00
Track Rail per 100mm	35.00	65.00	107.00	156.00
<b>Dimensions of Assembly mm</b>				
H ± 0.020	10.00	13.00	16.00	20.00
H1	2.00	3.00	4.00	5.00
N ± 0.025	5.50	7.50	8.50	10.00
<b>Dimensions of Slide Unit mm</b>				
W2	20.00	27.00	32.00	40.00
W3	15.00	20.00	25.00	30.00
W4	2.50	3.50	3.50	5.00
L1	30.00	34.00	42.00	50.00
L2	10.00	15.00	20.00	25.00
L3	20.80	21.60	27.80	34.60
L4	-	-	47.00	55.00
M1 x Depth	M3 x 3	M3 x 3.5	M3 x 4	M4 x 6
H3	2.20	2.70	3.10	4.20
<b>Dimensions of Track Rail mm</b>				
W	9.00	12.00	15.00	20.00
H4	6.00	8.00	10.00	11.00
d3	3.50	3.50	3.50	6.00
d4	6.00	6.50	6.50	9.50
h	3.50	4.50	4.50	5.50
E	10.00	12.50	20.00	30.00
F	20.00	25.00	40.00	60.00
<b>Track Rail Mounting Bolt</b>	M3 x 8	M3 x 8	M3 x 10	M5x14
<b>Basic Dynamic Load Rating</b>				
C kgf	160.00	300.00	450.00	590.00
<b>Basic Static Load Rating</b>				
Co kgf	290.00	450.00	690.00	960.00
<b>Static Rated Moment</b>				
To kgf•m	1.40	2.80	5.30	9.80
Tx kgf•m	0.96	1.60	3.10	5.60
	5.40	9.90	18.20	29.60
Ty kgf•m	0.81	1.40	2.60	4.70
	4.50	8.30	15.20	24.90

### Performance

**Dimension Variation Between Carriage Slides on Same Rail:** H = 0.015, N = 0.020

**Parallelism in Operation Over:** 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 x 0.84.

**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 we can supply special high temperature grease (200°C - supplied in syringe) **CG2-SY : £31.80**

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