Maintenance Free & Interchangeable U.S. PATENTED

C-Lube Linear Way ML

ML／MLF

IKO C-Lube Linear Way ML is a linear motion rolling guide, incorporating the C-Lube as a components part for lubrication in the slide unit of miniature type Linear Way L series to achieve maintenance free operations for a long period of time.

Long-term maintenance free

The lubricant in the C-Lube keeps the lubrication performance for a long period of time and achieves long-term maintenance free operations. (5 years and 20,000km)
So man-hours for troublesome lubrication control can be reduced.

Lightweight and compact

The C-Lube is incorporated in the lightweight and compact slide unit of miniature type Linear Way L series without changing the external dimensions of the slide unit.

Smooth and light motion

As the C-Lube is not in contact with the track rail, frictional resistance does not increase. A smooth and light motion is ensured.

Stainless Steel

The metal components are manufactured from corrosion resistant stainless steel. So this series is most suitable for use in clean rooms and also for applications where the use of lubricants and rust preventive oil should be avoided or kept to a minimum.

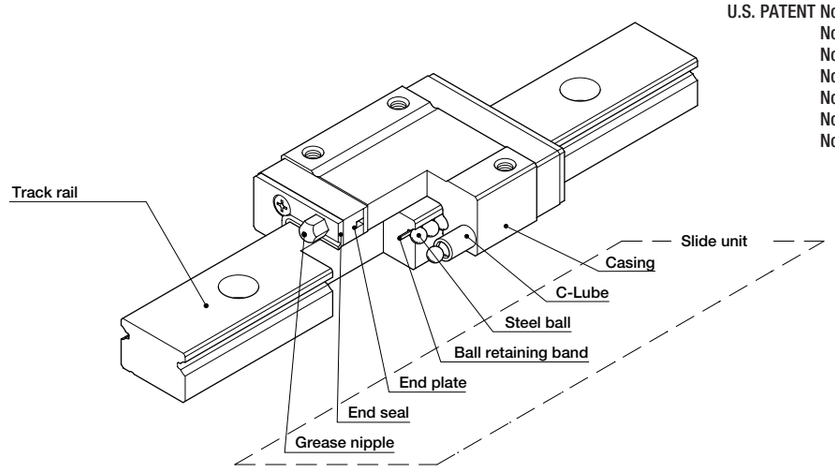
Ball retained type

The slide unit incorporates ball retaining bands, which prevent steel balls from dropping when the slide unit is separated from the track rail. So handling is easy.

Interchangeability

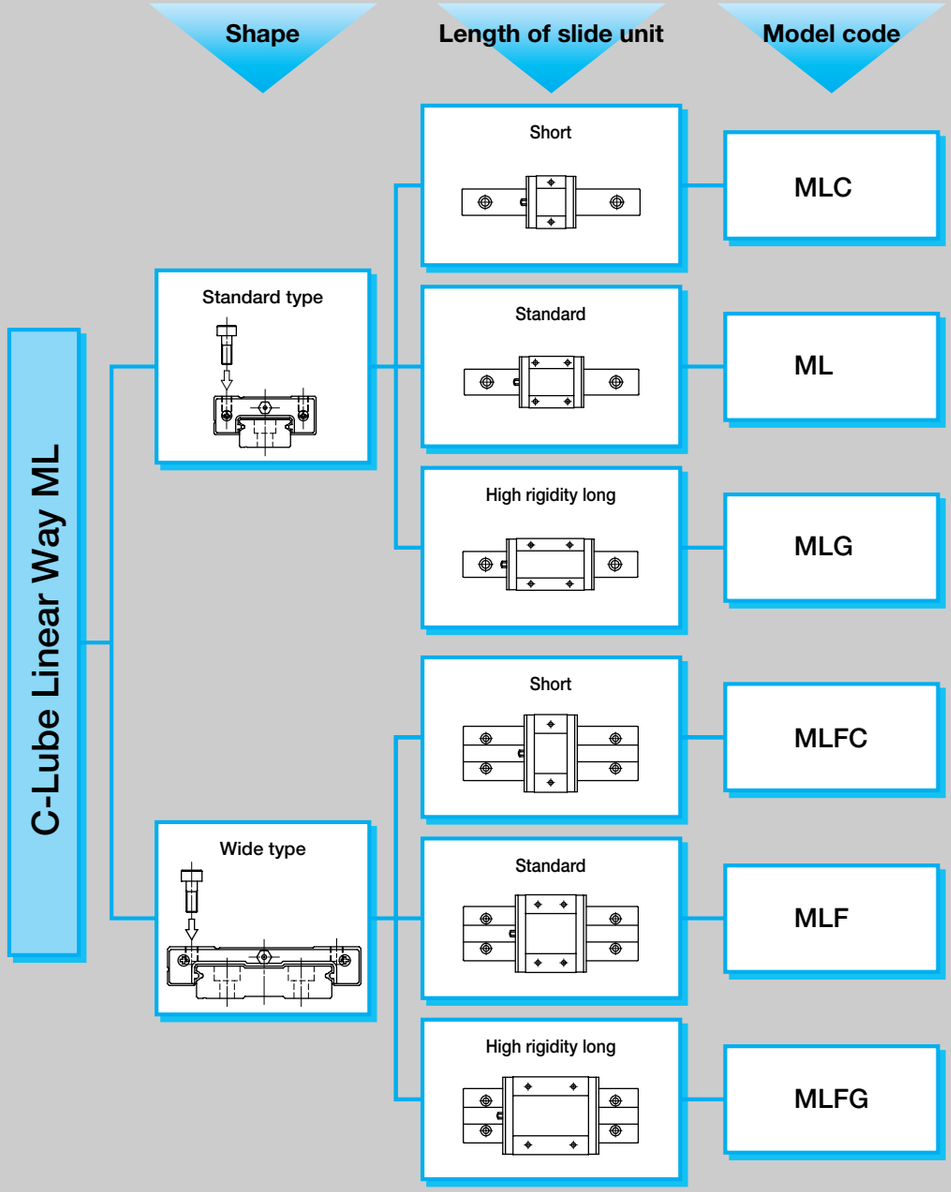
The track rails and the slide units of interchangeable specification can be handled separately and can be assembled to make a set as required. Three types of slide units with different lengths are prepared. The best type and size can be selected these entire slide units can be freely assembled on the same track rail.

U.S. PATENT No.6,729,761
No.6,712,511
No.5,435,649
No.5,289,779
No.5,250,126
No.4,652,147
No.4,505,522



Structure of C-Lube Linear Way ML

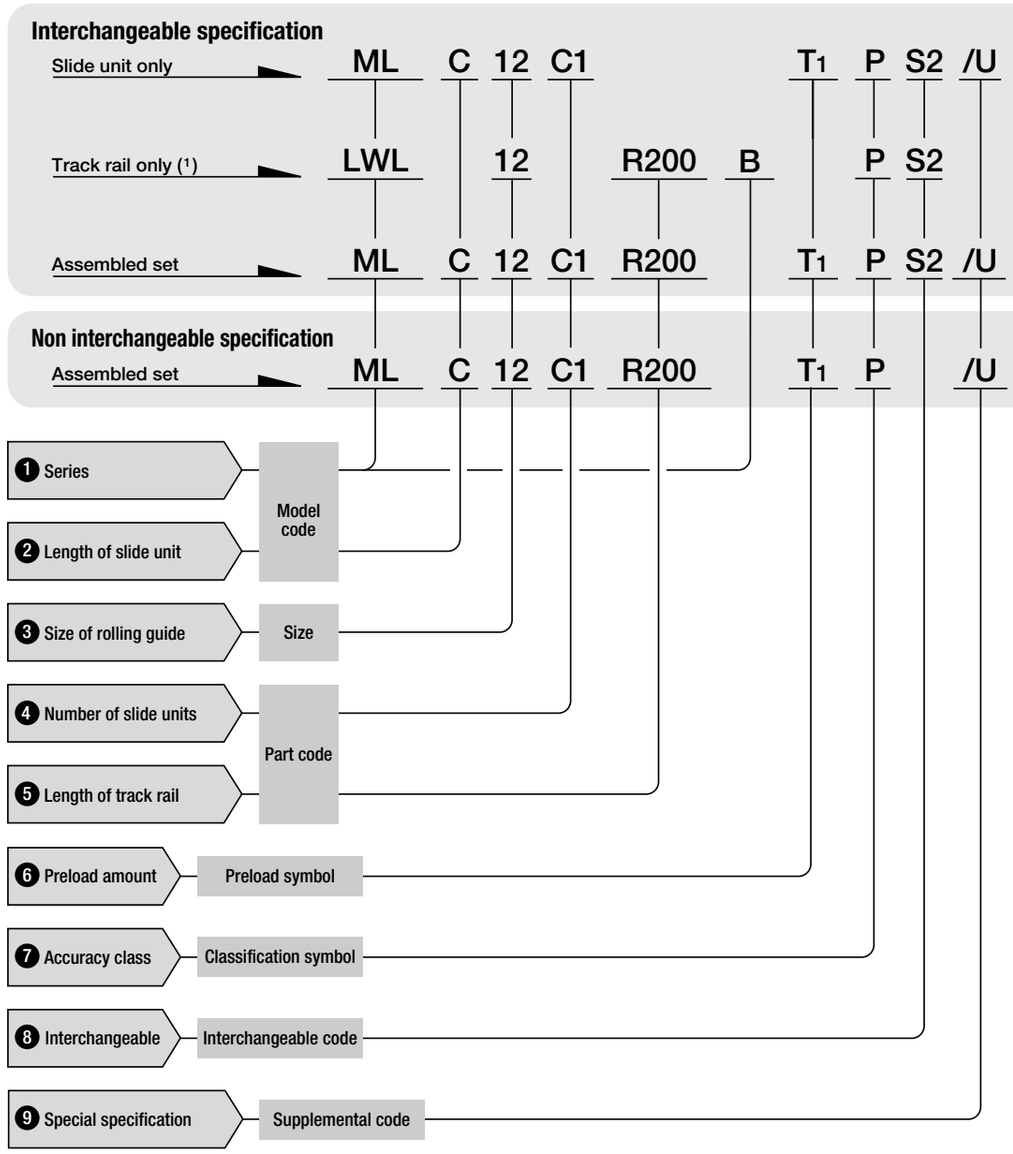
Variation of IKO C-Lube Linear Way ML



1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

Identification number and specification

The specification of C-Lube Linear Way ML is indicated by the identification number, consisting of a model code, a size, a part code, a preload symbol, a classification symbol and any supplemental codes. For details of each specification, see page 78.



Note(1) : In case ordering track rail only, model code should be changed as shown below.
Track rail of interchangeable ML ➡ Model code LWL···B (Ex: LWL9R160BHS2)
Track rail of interchangeable MLF ➡ Model code LWLF···B (Ex: LWLF42R320BHS2)

1 Series

Standard type	: ML
Wide type	: MLF

2 Length of slide unit

Short	: C
Standard	: No symbol
High rigidity long	: G

Applicable size and shape of slide unit are shown in Table 1 and 2.

3 Size

Table 1 Type and size of standard type C-Lube Linear Way ML

Size \ Type	Stainless steel		
	Short **MLC**	Standard **ML**	High rigidity long **MLG**
5	☆	☆	–
7	☆	☆	☆
9	☆	☆	☆
12	☆	☆	☆
15	☆	☆	☆
20	☆	☆	☆
25	☆	☆	☆

Remark : The mark ☆ indicates that it is also applicable to interchangeable specification.

Table 2 Type and size of wide type C-Lube Linear Way MLF

Size \ Type	Stainless steel		
	Short **MLFC**	Standard **MLF**	High rigidity long **MLFG**
10	☆	☆	–
14	☆	☆	☆
18	☆	☆	☆
24	☆	☆	☆
30	☆	☆	☆
42	☆	☆	☆

Remark : The mark ☆ indicates that it is also applicable to interchangeable specification.

4 Number of slide unit

Assembled set	: C○
Slide unit only	: C1

For an assembled set, indicate the number of slide units assembled on one track rail. For an interchangeable slide unit only, "C1" can be indicated.

5 Length of track rail

Assembled set	: R○
Track rail only	: R○

Indicate the length of track rail in mm. For standard and maximum lengths, see "Track rail length" on page A-8.

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

6 Preload amount

Clearance : T_0
Standard : No symbol
Light preload : T_1

Specify this items for an assembled set or an interchangeable single slide unit.
Applicable preload and size are shown in Table 3.
For detail of preload amount, see page 86.

Table 3 Preload of C-Lube Linear Way ML/MLF

Size		Preload and symbol		
Standard type	Wide type	Clearance (T_0)	Standard (No symbol)	Light preload (T_1)
5	10	☆	☆	–
7	14	☆	☆	☆
9	18	☆	☆	☆
12	24	☆	☆	☆
15	30	☆	☆	☆
20	42	☆	☆	☆
25	–	☆	☆	☆

Remark : The mark ☆ indicates that it is also applicable to interchangeable specification.
Only standard preload is applicable for/HB. (Ceramic ball specification)

7 Accuracy class

High class : H
Precision class : P

In interchangeable specification, please combine same accuracy codes on both slide unit and track rail. For detail of accuracy, see page 81.

8 Interchangeable

Interchangeable : S2

Specify this item for the interchangeable specification products. Assemble track rails and slide units with the same interchangeable code.

9 Special specifications

Applicable special specifications are shown in Table 4. When a combination of several special specifications is required, please refer Table 5 and arrange their supplemental codes in alphabetical order. For detail of specifications, see page 88.

Table 4 Applicable specifications

Specifications	Supplemental code	Assembled set	Track rail only	Slide unit only	Dimension
Butt jointing track rail	A	○	–	–	
Opposite reference surfaces arrangement	D	☆	–	–	
Specified rail mounting hole positions	E	☆	☆	–	
Ceramic ball specification	HB	○ (1)	–	–	
Appending inspection sheet	I	○	–	–	
Black chrome surface treatment	LR	○ (2)	–	–	
Without track rail mounting bolts	MN	☆	☆	–	
No rubber end seals	N	☆	–	☆	
Track rail with stopper pins	S	○	–	–	See Table 6
Under seals	U	☆ (3)	–	☆ (3)	See Table 7
Matched sets to be used as an assembled group	W	○	–	–	

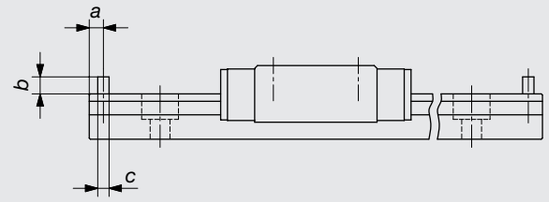
Note(1) : Applicable to size 7, 9, 12 and 15.
(2) : Not applicable to size 5 and 10.
(3) : Not applicable to size 5, 7, 10 and 14.
Remark : The mark ☆ indicates that it is also applicable to interchangeable specification.

Table 5 Combination of special specifications

	A	D	E	HB	I	LR	MN	N	S	U
D	○									
E	–	–								
HB	○	○	○							
I	○	○	○	○						
LR	–	○	○	○	○					
MN	○	☆	☆	○	○	○				
N	○	☆	☆	○	○	○	☆			
S	○	○	○	○	○	○	○	○		
U	○	☆	☆	○	○	○	☆	–	○	
W	○	○	–	○	○	○	○	○	○	○

Remark 1 : In the table, the mark ○ indicates that this combination can be made.
2 : The mark ☆ indicates that the combination is available for also interchangeable specification.
3 : When a combination of several special specifications is required, arrange their supplemental codes in alphabetical order.

Table 6 Dimension of track rail with stopper pins (Supplemental code: /S)



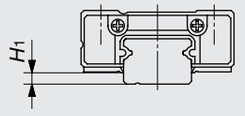
unit : mm

Model number	*a*	*b*	*c*
ML 5	2	2	1.6
ML 7	2.5	2.5	2
ML 9		3	
ML 12			
ML 15		4	
ML 20		5	
ML 25	3.5		

Model number	*a*	*b*	*c*
MLF 10	2.5	2	1.6
MLF 14		3	2
MLF 18			
MLF 24			
MLF 30		4	
MLF 42		5	

Remark : The table shows representative model numbers but is also applicable to all types of the same size.

Table 7 H_1 dimension of slide unit with under seals (Supplemental code: /U)



unit : mm

Model number	H_1
ML 9	1
ML 12	2
ML 15	3
ML 20	4
ML 25	5(1)

Model number	H_1
MLF 18	2
MLF 24	
MLF 30	
MLF 42	3

Note(1) : H_1 dimension of size 25 (ML25) is the same as the dimension without under seals.
Remark : The table shows representative model numbers but is applicable to all models of the same size of ML and MLF series.

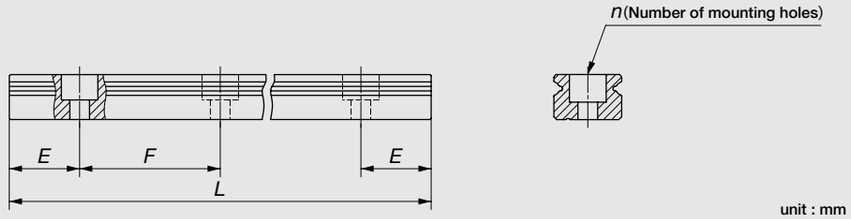
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

Track rail length

Standard and maximum lengths of track rail are shown in Table 8.1 and 8.2.
Track rail in any lengths are also available. Simply indicate the necessary length of track rail in millimeter (mm) in the identification number.

- In non-interchangeable specification, for track rail longer than the maximum length shown in Table 8.1 and 8.2, butt-jointing track rails are available upon request. In this case, indicate supplemental code "/A" in the identification number.
- *E* dimensions at both ends are the same unless otherwise specified. To change these dimensions, specify the specified rail mounting hole positions (supplemental code "/E") of special specification.

Table 8.1 C-Lube Linear Way ML (Standard type) Standard and maximum lengths of track rails



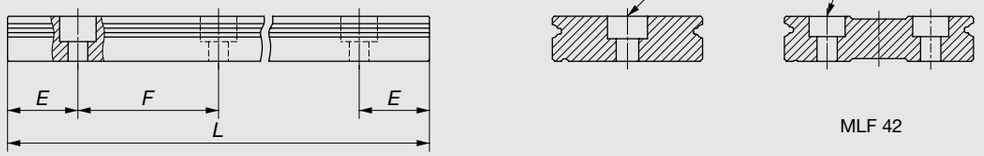
unit : mm

Item \ Model number		ML 5	ML 7	ML 9	ML 12
Standard length $L(n)$		60(4) 90(6) 105(7) 120(8) 150(10)	60(4) 90(6) 120(8) 150(10) 180(12) 240(16)	60(3) 80(4) 120(6) 160(8) 220(11) 280(14)	100(4) 150(6) 200(8) 275(11) 350(14) 475(19)
Mounting hole pitch F		15	15	20	25
E		7.5	7.5	10	12.5
Reference dimension E (1)	Over (Incl.)	4	4.5	4.5	5
	Under	11.5	12	14.5	17.5
Maximum length(2)		210 (510)	300 (990)	860 (1 200)	1 000 (1 450)
Maximum number of track rails for butt jointing		5	7	2	2
Maximum length of butt jointing track rails		915	1 905	1 660	1 925

Item \ Model number		ML 15	ML 20	ML 25
Standard length $L(n)$		160(4) 240(6) 320(8) 440(11) 560(14) 680(17)	180(3) 240(4) 360(6) 480(8) 660(11) 840(14)	240(4) 300(5) 360(6) 480(8) 660(11) 900(15)
Mounting hole pitch F		40	60	60
E		20	30	30
Reference dimension E (1)	Over (Incl.)	5.5	8	9
	Under	25.5	38	39
Maximum length(2)		1 000 (1 480)	960 (1 800)	960 (1 800)
Maximum number of track rails for butt jointing		2	2	2
Maximum length of butt jointing track rails		1 880	1 740	1 740

Note(1) : Not applied to optional specification "track rail stopper pins" (supplemental code "/S")
(2) : The track rails can be manufactured up to the maximum length shown in parentheses. If required, please consult IKO.
Remark 1 : The above table shows representative model numbers but is applicable to all models of the same size.
2 : "Maximum number of butt-jointing track rails" and "Maximum length of butt-jointing track rails" do not apply to the track rails of interchangeable specification and tapped rail specification.

Table 8.2 C-Lube Linear Way MLF (Wide type) Standard and maximum lengths of track rails



unit : mm

Item \ Model number		MLF 10	MLF 14	MLF 18	MLF 24
Standard length $L(n)$		60(3) 80(4) 120(6) 160(8) 220(11) 280(14)	90(3) 120(4) 150(5) 180(6) 240(8) 300(10)	90(3) 120(4) 150(5) 180(6) 240(8) 300(10)	120(3) 160(4) 240(6) 320(8) 400(10) 480(12)
Mounting hole pitch F		20	30	30	40
E		10	15	15	20
Reference dimension E (1)	Over (Incl.)	4.5	5.5	5.5	6.5
	Under	14.5	20.5	20.5	26.5
Maximum length(2)		300 (500)	300 (990)	690 (1 860)	680 (1 960)
Maximum number of track rails for butt jointing		7	8	3	3
Maximum length of butt jointing track rails		1 840	1 950	1 920	1 840

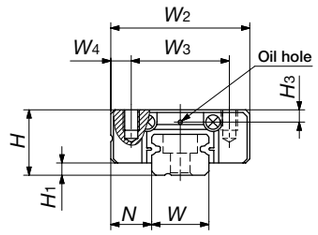
Item \ Model number		MLF 30	MLF 42
Standard length $L(n)$		160(4) 240(6) 320(8) 440(11) 560(14) 680(17)	160(4) 240(6) 320(8) 440(11) 560(14) 680(17)
Mounting hole pitch F		40	40
E		20	20
Reference dimension E (1)	Over (Incl.)	6.5	6.5
	Under	26.5	26.5
Maximum length(2)		680 (2 000)	680 (2 000)
Maximum number of track rails for butt jointing		3	3
Maximum length of butt jointing track rails		1 840	1 840

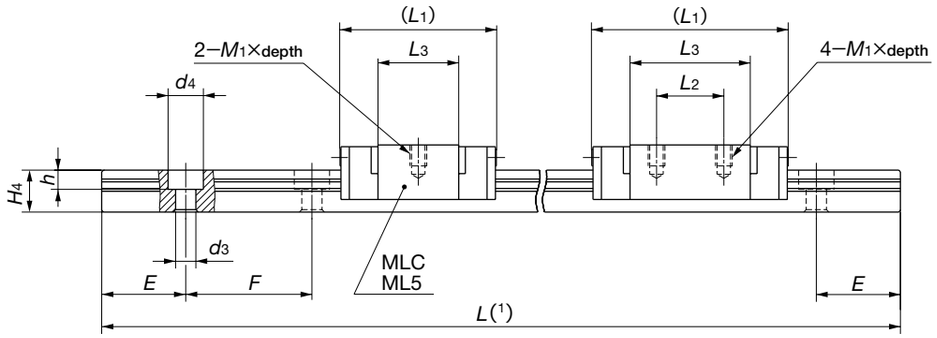
Note(1) : Not applied to optional specification "track rail stopper pins" (supplemental code "/S")
(2) : The track rails can be manufactured up to the maximum length shown in parentheses. If required, please consult IKO.
Remark 1 : The above table shows representative model numbers but is applicable to all models of the same size.
2 : "Maximum number of butt-jointing track rails" and "Maximum length of butt-jointing track rails" do not apply to the track rails of interchangeable specification and tapped rail specification.

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

IKO C-Lube Linear Way ML Standard type

MLC
ML
MLG

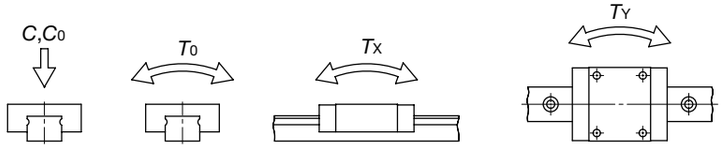




Model number		Interchangeable	Mass (Reference) g		Dimension of assembly mm			Dimension of slide unit mm						
			Slide unit	Track rail (per 100mm)	H	H1	N	W2	W3	W4	L1	L2	L3	M1×depth
MLC	5	☆	3.4	12	6	1	3.5	12	8	2	16	—	9.6	M2×1.5
ML	5	☆	4.3								19		12.6	
MLC	7	☆	6.7	22	8	1.5	5	17	12	2.5	19	—	9.6	M2×2.5
ML	7	☆	9.1								23.5	8	14.3	
MLG	7	☆	13								31	12	21.6	
MLC	9	☆	11	35	10	2	5.5	20	15	2.5	21.5	—	11.9	M3×3
ML	9	☆	18								30	10	20.8	
MLG	9	☆	26								40.5	15	30.9	
MLC	12	☆	22	65	13	3	7.5	27	20	3.5	25	—	13	M3×3.5
ML	12	☆	34								34	15	21.6	
MLG	12	☆	48								44	20	32	

H3	Dimension of track rail mm W	H4	d3	d4	h	E	F	Appended mounting bolt for track rail mm Bolt size x length	Basic dynamic load rating(2) C N	Basic static load rating(2) C0 N	Static moment rating(2) T0 N·m	Tx N·m	TY N·m
1.2	5	3.7	2.4	3.6	0.8	7.5	15	Cross-recessed head cap screw for precision equipment M2×6	562	841	2.2	1.4 8.5	1.2 7.2
									676	1 090	2.9	2.3 12.8	1.9 10.8
1.5	7	5	2.4	4.2	2.3	7.5	15	Hexagon socket head bolt M2×6	937	1 140	4.1	1.8 14.9	1.5 12.5
									1 330	1 890	6.9	4.7 28.2	3.9 23.6
									1 690	2 650	9.7	8.8 50.7	7.4 42.5
2.2	9	6	3.5	6	3.5	10	20	Hexagon socket head bolt M3×8	1 180	1 480	6.9	2.9 21.4	2.4 18.0
									1 810	2 760	12.8	9.1 51.1	7.6 42.9
									2 370	4 030	18.7	18.7 98.3	15.7 82.5
2.7	12	8	3.5	6.5	4.5	12.5	25	Hexagon socket head bolt M3×8	2 210	2 380	14.8	5.3 41.7	4.5 35.0
									3 330	4 290	26.6	15.4 93.1	12.9 78.2
									4 310	6 200	38.4	30.6 168	25.7 141

Note(1) : Track rail lengths *L* are shown in Table 8.1 on page A-8.
(2) : The directions of basic dynamic load rating (*C*), basic static load rating (C_0) and static moment rating (T_0, T_X and T_Y) are shown in the sketches below. The upper values in the T_X and T_Y column apply to one slide unit, and the lower values apply to two units in close contact.
Remark 1 : The mark ☆ indicates that it is also applicable to interchangeable specification.
2 : The appended bolts for mounting track rails are stainless hexagon socket head bolts of JIS B1176 or equivalent, or stainless cross-recessed head cap screws for precision equipment.
3 : Oil hole is provided for ML5 to ML12 models.
4 : For specification of oil hole, see page 101.



Example of identification number for assembled set (For details, see "Identification number and specification".)

ML — Series: MLC / ML / MLG

9 — Size

C2 — Number of slide unit (two slide units)

R160 — Length of track rail (160 mm)

T1 — Preload amount: Clearance : T_0 / Standard : No symbol / Light preload : T_1

P — Accuracy class: High : H / Precision : P

S2 — Interchangeable code: Interchangeable specification : S2 / Non interchangeable specification : No symbol

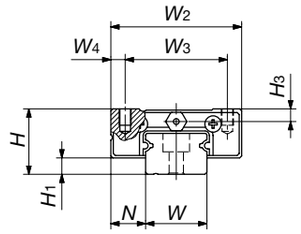
/U — Special specification: With under seals : /U

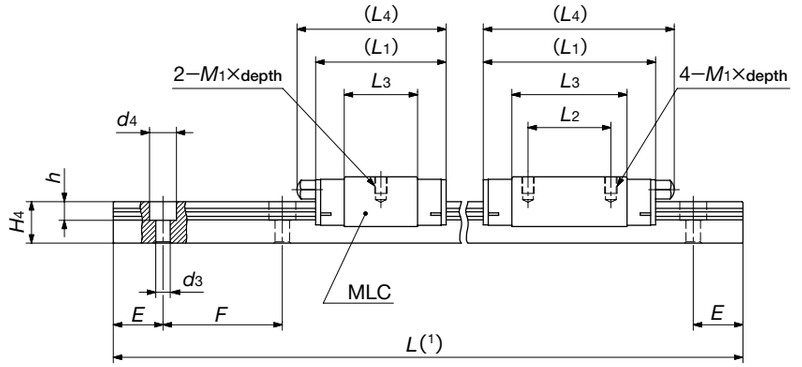
※In case ordering track rail only, model code is changed as shown below.
Track rail of interchangeable ML ➡ Model code LWL···B (Ex: LWL9R160BPS2)

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

IKO C-Lube Linear Way ML Standard type

MLC
ML
MLG

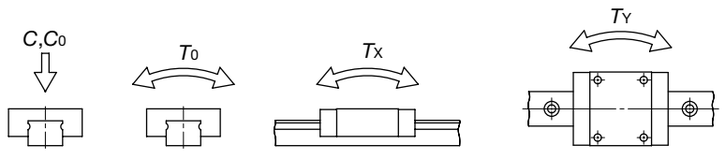




Model number	Interchangeable	Mass (Reference) g		Dimension of assembly mm			Dimension of slide unit mm							
		Slide unit	Track rail (per 100mm)	H	H1	N	W2	W3	W4	L1	L2	L3	L4	M1×depth
MLC 15	☆	43	107	16	4	8.5	32	25	3.5	32	–	17.8	36	M3×4
ML 15	☆	63								42	20	27.9	47	
MLG 15	☆	93								57	25	42.8	62	
MLC 20	☆	89	156	20	5	10	40	30	5	38	–	22.3	42	M4×6
ML 20	☆	130								50	25	34.6	55	
MLG 20	☆	189								68	30	52.3	72	
MLC 25	☆	189	243	25	5	12.5	48	35	6.5	55	–	31.9	65	M6×7
ML 25	☆	305								78	35	55.7	89	
MLG 25	☆	405								98	40	75.5	108	

H3	Dimension of track rail mm W	H4	d3	d4	h	E	F	Appended mounting bolt for track rail mm Bolt size x length	Basic dynamic load rating(2) C N	Basic static load rating(2) C0 N	Static moment rating(2) T0 N·m	Static moment rating(2) Tx N·m	Static moment rating(2) TY N·m
3.1	15	10	3.5	6.5	4.5	20	40	Hexagon socket head bolt M3×10	3 490	3 890	30.0	11.7 84.5	9.8 70.9
									4 980	6 490	50.0	29.7 172	24.9 144
									6 620	9 740	75.0	63.9 338	53.6 284
4.2	20	11	6	9.5	5.5	30	60	Hexagon socket head bolt M5×14	4 580	5 300	54.0	19.4 134	16.3 112
									6 650	9 080	92.6	52.7 280	44.2 235
									8 510	12 900	131	102 529	85.7 444
5	23	15	7	11.0	9.0	30	60	Hexagon socket head bolt M6×16	9 120	10 600	128	57.4 380	48.1 319
									13 500	18 500	223	163 887	137 744
									16 700	25 200	303	293 1 480	246 1 240

Note(1) : Track rail lengths *L* are shown in Table 8.1 on page A-8.
(2) : The directions of basic dynamic load rating (*C*), basic static load rating (C_0) and static moment rating (T_0, T_X and T_Y) are shown in the sketches below. The upper values in the T_X and T_Y column apply to one slide unit, and the lower values apply to two units in close contact.
Remark 1 : The mark ☆ indicates that it is also applicable to interchangeable specification.
2 : The appended bolts for mounting track rails are stainless hexagon socket head bolts of JIS B1176 or equivalent, or stainless cross-recessed head cap screws for precision equipment.
3 : For specification of grease nipple, see page 99.



Example of identification number for assembled set (For details, see "Identification number and specification".)

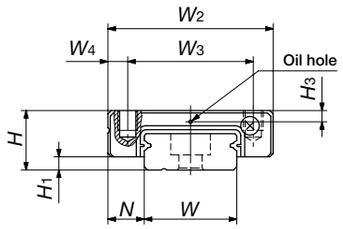
ML — Series: MLC / ML / MLG
20 — Size
C2 — Number of slide unit (two slide units)
R240 — Length of track rail (240 mm)
T1 — Preload amount: Clearance : T_0 / Standard : No symbol / Light preload : T_1
P — Accuracy class: High : H / Precision : P
S2 — Interchangeable code: Interchangeable specification : S2 / Non interchangeable specification : No symbol
/U — Special specification: With under seals : /U

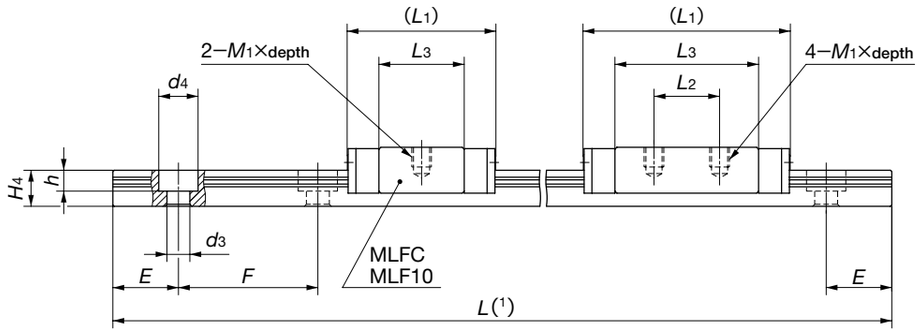
※In case ordering track rail only, model code is changed as shown below.
Track rail of interchangeable ML ➡ Model code LWL···B (Ex: LWL20R240BPS2)

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

IKO C-Lube Linear Way MLF Wide type

MLFC
MLF
MLFG

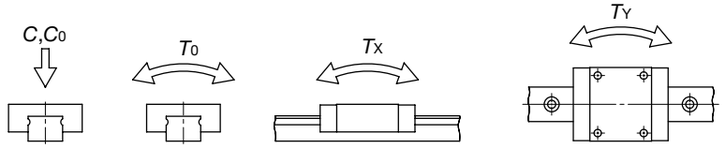




Model number	Interchangeable	Mass (Reference) g		Dimension of assembly mm			Dimension of slide unit mm							
		Slide unit	Track rail (per 100mm)	H	H1	N	W2	W3	W4	L1	L2	L3	M1×depth	H3
MLFC 10	☆	6.1	28	6.5	1.5	3.5	17	13	2	20.5	–	13.6	M2.5 ×1.5	1.3
MLF 10	☆	7.6								24.5		17.6		
MLFC 14	☆	13	54	9	2	5.5	25	19	3	22.5	–	13	M3 ×3	1.7
MLF 14	☆	20								31.5	10	22		
MLFG 14	☆	29								42	19	32.5		
MLFC 18	☆	26	90	12	3	6	30	21	4.5	26.5	–	16.6	M3 ×3	2.5
MLF 18	☆	42								39	12	28.6		
MLFG 18	☆	59						23	3.5	50.5	24	40.4		
MLFC 24	☆	46	139	14	3	8	40	28	6	30.5	–	17.7	M3 ×3.5	3.2
MLF 24	☆	74								44	15	31		
MLFG 24	☆	108								59	28	46.3		

Dimension of track rail mm							Appended mounting bolt for track rail mm	Basic dynamic load rating(2)	Basic static load rating(2)	Static moment rating(2)		
W	H4	d3	d4	h	E	F	Bolt size x length	C	C0	T0	TX	TY
								N	N	N·m	N·m	N·m
10	4	2.9	4.8	1.6	10	20	Cross-recessed head cap screw for precision equipment M2.5×7	712	1 180	6.1	2.6 14.9	2.2 12.5
								849	1 510	7.8	4.2 22.4	3.5 18.8
14	5.5	3.5	6	3.2	15	30	Hexagon socket head bolt M3×8	1 240	1 700	12.2	3.8 24.6	3.2 20.7
								1 770	2 840	20.3	10.1 54.7	8.4 45.9
								2 320	4 160	29.8	21.0 104	17.6 87.6
18	7	3.5	6.5	4.5	15	30	Hexagon socket head bolt M3×8	1 510	2 120	19.4	5.5 35.9	4.7 30.1
								2 280	3 810	34.9	16.9 90.1	14.2 75.6
								2 870	5 300	48.5	31.9 159	26.7 134
24	8	4.5	8	4.5	20	40	Hexagon socket head bolt M4×10	2 800	3 340	40.7	9.7 67.6	8.2 56.8
								4 310	6 200	75.6	30.6 168	25.7 141
								5 620	9 060	111	63.3 321	53.1 270

Note(1) : Track rail lengths *L* are shown in Table 8.2 on page A-9.
(2) : The directions of basic dynamic load rating (*C*), basic static load rating (C_0) and static moment rating (T_0, T_X and T_Y) are shown in the sketches below. The upper values in the T_X and T_Y column apply to one slide unit, and the lower values apply to two units in close contact.
Remark 1 : The mark ☆ indicates that it is also applicable to interchangeable specification.
2 : The appended bolts for mounting track rails are stainless hexagon socket head bolts of JIS B1176 or equivalent, or stainless cross-recessed head cap screws for precision equipment.
3 : Oil hole is provided for MLF10 to MLF24 models.
4 : For specification of oil hole, see page 101.



Example of identification number for assembled set (For details, see "Identification number and specification".)

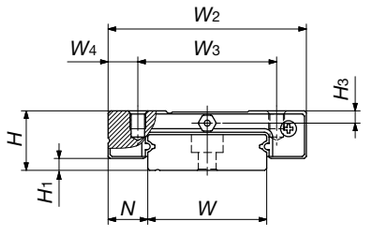
MLF — Series: MLFC / MLF / MLFG
24 — Size
C2 — Number of slide unit (two slide units)
R240 — Length of track rail (240 mm)
T1 — Preload amount: Clearance : T_0 / Standard : No symbol / Light preload : T_1
P — Accuracy class: High : H / Precision : P
S2 — Interchangeable code: Interchangeable specification : S2 / Non interchangeable specification : No symbol
/U — Special specification: With under seals : /U

※In case ordering track rail only, model code is changed as shown below.
Track rail of interchangeable MLF ➡ Model code LWLF···B (Ex: LWLF14R240BPS2)

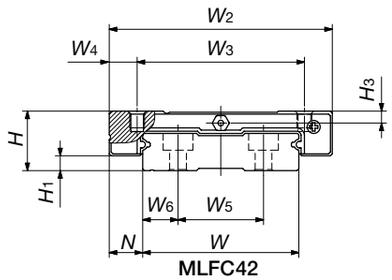
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

IKO C-Lube Linear Way MLF Wide type

MLFC
MLF
MLFG

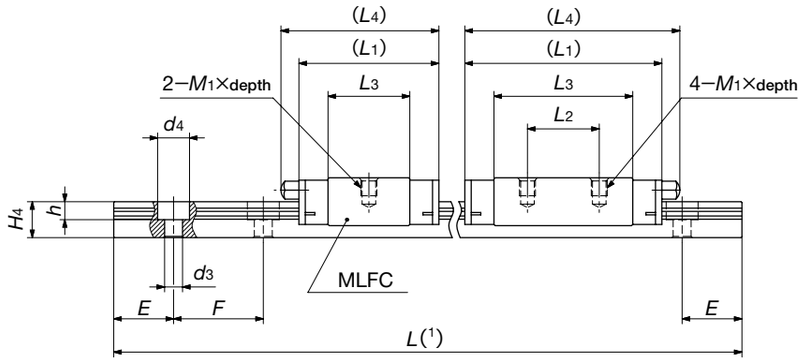


MLFC30
MLF 30
MLFG30



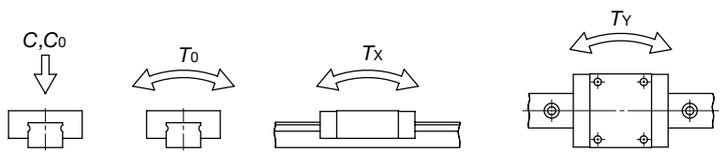
MLFC42
MLF 42
MLFG42

Model number	Interchangeable	Mass (Reference) g		Dimension of assembly mm			Dimension of slide unit mm								
		Slide unit	Track rail (per 100mm)	H	H1	N	W2	W3	W4	L1	L2	L3	L4	M1×depth	H3
MLFC 30	☆	70	198	15	3	10	50	35	7.5	35.5	—	20.5	40	M4×4.5	3.1
MLF 30	☆	111								50	18	34.8	54		
MLFG 30	☆	167								68.5	35	53.8	73		
MLFC 42	☆	95	294	16	4	9	60	45	7.5	41.5	—	25.7	46	M4×4.5	3.2
MLF 42	☆	138								55	20	39.4	60		
MLFG 42	☆	200								74.5	35	58.7	79		



Dimension of track rail mm									Appended mounting bolt for track rail mm	Basic dynamic load rating(2)	Basic static load rating(2)	Static moment rating(2)		
W	H4	W5	W6	d3	d4	h	E	F	Bolt size x length	C N	C0 N	T0 N·m	TX N·m	TY N·m
30	9	—	—	4.5	8	4.5	20	40	Hexagon socket head bolt M4×12	3 890	4 540	69.1	15.4 107	13.0 89.9
										5 970	8 440	128	48.7 259	40.8 217
										7 810	12 300	187	100 508	84.3 426
42	10	23	9.5	4.5	8	4.5	20	40	Hexagon socket head bolt M4×12	5 440	6 810	144	30.8 180	25.8 151
										7 050	9 840	209	61.3 333	51.4 280
										9 520	15 100	321	140 674	117 565

Note(1) : Track rail lengths *L* are shown in Table 8.2 on page A-9.
(2) : The directions of basic dynamic load rating (*C*), basic static load rating (C_0) and static moment rating (T_0, T_X and T_Y) are shown in the sketches below. The upper values in the T_X and T_Y column apply to one slide unit, and the lower values apply to two units in close contact.
Remark 1 : The mark ☆ indicates that it is also applicable to interchangeable specification.
2 : The appended bolts for mounting track rails are stainless hexagon socket head bolts of JIS B1176 or equivalent, or stainless cross-recessed head cap screws for precision equipment.
3 : For specification of grease nipple, see page 99.



Example of identification number for assembled set (For details, see "Identification number and specification".)

MLF — Series: MLFC / MLF / MLFG
42 — Size
C2 — Number of slide unit (two slide units)
R320 — Length of track rail (320 mm)
T1 — Preload amount: Clearance : T_0 / Standard : No symbol / Light preload : T_1
P — Accuracy class: High : H / Precision : P
S2 — Interchangeable code: Interchangeable specification : S2 / Non interchangeable specification : No symbol
/U — Special specification: With under seals : /U

※In case ordering track rail only, model code is changed as shown below.
Track rail of interchangeable MLF ➡ Model code LWLF···B (Ex: LWLF42R320BPS2)

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch