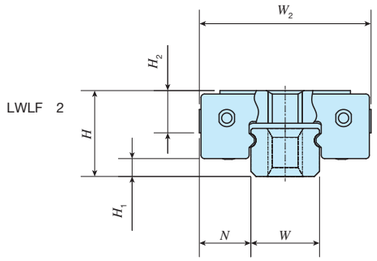
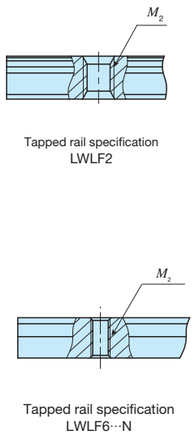
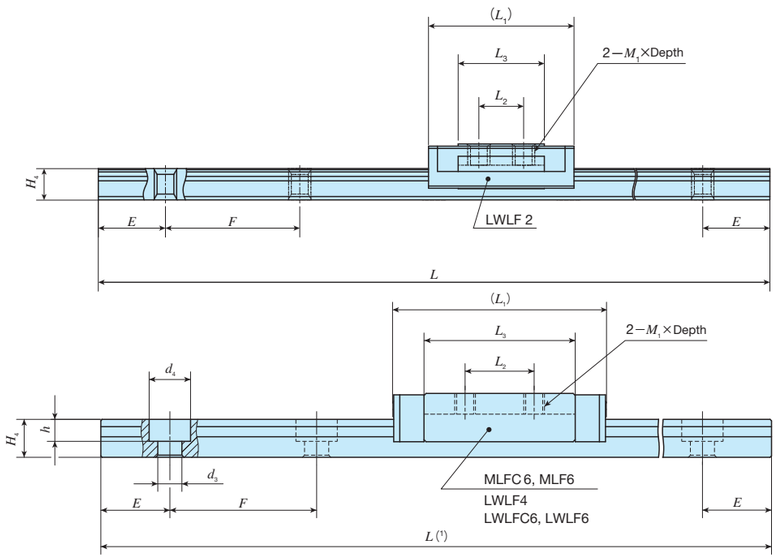
IKO C-Lube Linear Way ML

5k. LWLF en MLF series

Wide type					
Shape	MLF • LWLF				
Size	2	4	6	10	14
	18	24	30	42	



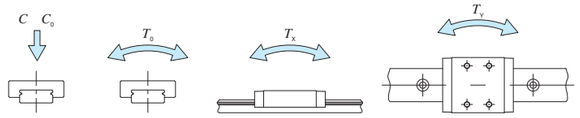




Identification number		Interchangeable	Mass (Ref.) g		Dimensions of assembly mm			Dimensions of slide unit mm									Dimensions of track rail mm								Appended mounting bolt for track rail mm	Basic dynamic load rating (4)	Basic static load rating (4)	Static moment rating (4)		
MLF series	LWLF series (No C-Lube)		Slide unit	Track rail (per 100 mm)	H	H_1	N	W_2	W_3	W_4	L_1	L_2	L_3	M_1×depth	H_2	H_3		W	H_4	M_2	d_3	d_4	h	E	F	Bolt size× ℓ	C	C_0	T_0	T_X	T_Y
																										N	N	N·m	N·m	N·m
–	LWLF 2(2)	–	0.21	2	2.5	0.5	1.5	5	–	–	6.5	2	3.9	M1 × 0.9	1.2	–		2	1.4	M1 Through	–	–	–	3	6	M1× ℓ (3) (Not appended)	66.8	118	0.12	0.07 0.47	0.09 0.56
–	LWLF 4(2)	–	2.1	6.8	4	1	3	10	–	5	17	6.5	11.9	M2 × 1.3	–	–		4	2.6	–	1.8	2.8	0.75	5	10	Cross-recessed pan head screw for precision equipment M1.6×5	390	677	1.4	1.3 7.1	1.5 8.4
MLFC 6(2)		–	2.1	13	4.5	1	3	12	–	6	15	4.5	9.8	M2 × 1.6	–	–		6	2.8	–	2.4	4	1.5	7.5	15	Cross-recessed pan head screw for precision equipment M2×4	334	542	1.7	0.84 5.1	1.0 6.1
	LWLFC 6(2)	–	2.4																											
MLFC 6···N(2)*		–	2.1	12																M3 Through	–	–	–			M3× ℓ (3) (Not appended)					
	LWLFC 6···N(2)*	–	2.4																											
MLF 6(2)		–	3.1	13							20	8	14.6							–	2.4	4	1.5			Cross-recessed pan head screw for precision equipment M2×4	443	813	2.5	1.8 9.9	2.2 11.8
	LWLF 6(2)	–	3.4																											
MLF 6···N(2)*		–	3.1	12																M3 Through	–	–	–			M3× ℓ (3) (Not appended)					
	LWLF 6···N(2)*	–	3.4																											

Notes (1) Track rail lengths L are shown in Table 3.2 on page Ⅱ−11.
(2) Steel balls are not retained. No end seal is attached.
(3) Choose screws whose dimension allow fixing thread depth into track rail ℓ to be less than H_4.
(4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below.
The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
Remarks 1. The identification numbers with * are our semi-standard items.
2. There is no oil hole on the slide unit.

1N≒0.102kgf



Example of identification number of assembled set

Model code		Dimensions	Part code		Model code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MLF	C	6	C2	R120		T0	P		/D
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨

① Model: MLF, LWLF, LWLF···N — Wide type
② Length of slide unit: C — Short; No symbol — Standard
③ Size: 2, 4, 6, 10
④ Number of slide unit (2)
⑤ Length of track rail (120 mm)
⑥ Preload amount: T0 — Clearance; No symbol — Standard
⑦ Accuracy class: H — High; P — Precision
⑧ Interchangeable: No symbol — Non-interchangeable specification; S1 — S1 specification; S2 — S2 specification
⑨ Special specification: A, BS, D, E, I, MN, N, Q, RE, S, W, Y

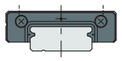
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1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

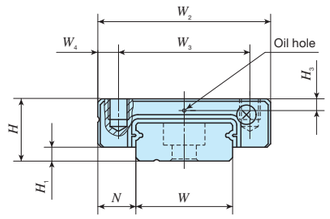
IKO C-Lube Linear Way ML

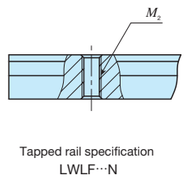
Wide type

Shape: **MLF • LWLF**

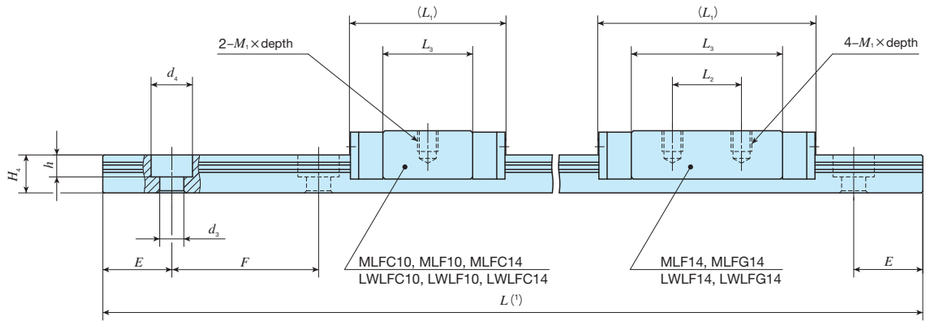


Size	2	4	6	10	14
	18	24	30	42	





Tapped rail specification
LWLF···N

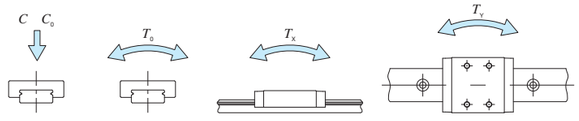


Identification number		Interchangeable	Mass (Ref.) g		Dimensions of assembly mm			Dimensions of slide unit mm								Dimensions of track rail mm								Appended mounting bolt for track rail (2) mm	Basic dynamic load rating (4)	Basic static load rating (4)	Static moment rating (4)		
MLF series	LWLF series (No C-Lube)		Slide unit	Track rail (per 100 mm)	H	H_1	N	W_2	W_3	W_4	L_1	L_2	L_3	M_1×depth	H_3	W	H_4	M_2	d_3	d_4	h	E	F	Bolt size× ℓ	C N	C_0 N	T_0 N·m	T_x N·m	T_y N·m
MLFC 10		○	6.1	28	6.5	1.5	3.5	17	13	2	20.5	–	13.6	M2.5×1.5	1.3	10	4	–	2.9	4.8	1.6	10	20	Cross-recessed pan head screw for precision equipment M2.5×7	712	1 180	6.1	2.6 14.9	2.2 12.5
	LWLFC 10···B	○	5.9															M3 Through	–	–	–			M3× ℓ (3) (Not appended)					
MLFC 10···N*		–	6.1	29														–	2.9	4.8	1.6			Cross-recessed pan head screw for precision equipment M2.5×7	849	1 510	7.8	4.2 22.4	3.5 18.8
	LWLFC 10···N*	–	5.9								24.5		17.6					M3 Through	–	–	–			M3× ℓ (3) (Not appended)					
MLFC 14	LWLFC 14···B	○	13	54	9	2	5.5	25	19	3	22.5	–	13	M3 ×3	1.7	14	5.5	–	3.5	6	3.2	15	30	M3×8	1 240	1 700	12.2	3.8 24.6	3.2 20.7
	LWLFC 14···N*	–		56														M4 Through	–	–	–			M4× ℓ (3) (Not appended)					
MLF 14		○	20	54							31.5	10	22					–	3.5	6	3.2			M3×8	1 770	2 840	20.3	10.1 54.7	8.4 45.9
	LWLF 14···B	○	21																										
MLF 14···N*		–	20	56														M4 Through	–	–	–			M4× ℓ (3) (Not appended)					
	LWLF 14···N*	–	21																										
MLFG 14		○	29	54							42	19	32.5					–	3.5	6	3.2			M3×8	2 320	4 160	29.8	21.0 104	17.6 87.6
	LWLFG 14···B	○	31																										
MLFG 14···N*		–	29	56														M4 Through	–	–	–			M4× ℓ (3) (Not appended)					
	LWLFG 14···N*	–	31																										

1N≒0.102kgf

Notes (1) Track rail lengths L are shown in Table 3.2 on page Ⅱ−11.
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176.
(3) Choose screws whose dimension allow fixing thread depth into track rail ℓ to be less than H_4.
(4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below.
The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.

Remarks 1. The specification of oil hole is shown in Table 13 on page Ⅱ−18.
2. The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

Model code		Dimensions	Part code		Model code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MLF	G	14	C2	R240		T1	P		/D
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨

① Model

MLF	Wide type
LWLF···B	
LWLF···N	

② Length of slide unit

C	Short
No symbol	Standard
G	Long

③ Size: 10, 14

④ Number of slide unit (2)

⑤ Length of track rail (240 mm)

⑥ Preload amount

T0	Clearance
No symbol	Standard
T1	Light preload

⑦ Accuracy class

H	High
P	Precision

⑧ Interchangeable

No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

⑨ Special specification: A, BS, D, E, I, LR, MN, N, Q, RE, S, W, Y

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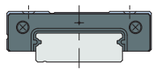
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

IKO C-Lube Linear Way ML

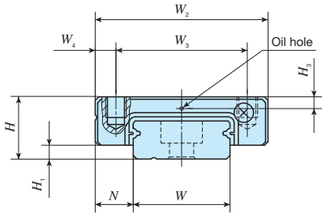
Wide type

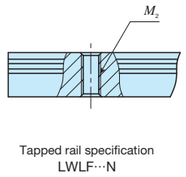
MLF • LWLF

Shape

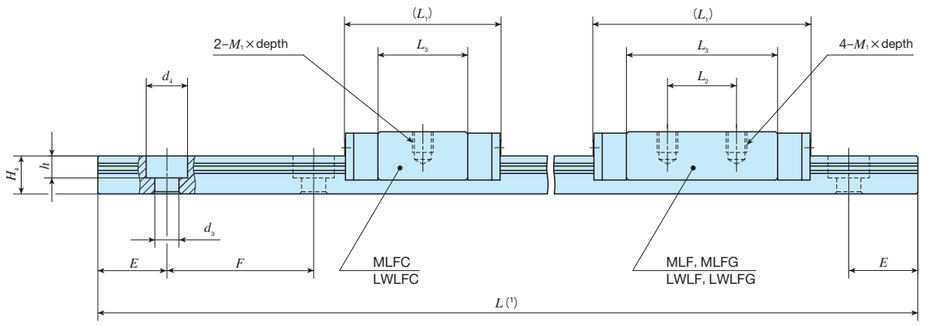


Size					
2	4	6	10	14	
18	**24**	**30**	**42**		





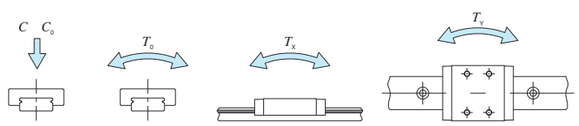
Tapped rail specification
LWLF···N



Identification number		Interchangeable	Mass (Ref.) g		Dimensions of assembly mm			Dimensions of slide unit mm								Dimensions of track rail mm								Appended mounting bolt for track rail (2) mm	Basic dynamic load rating (4)	Basic static load rating (4)	Static moment rating (4)		
MLF series	LWLF series (No C-Lube)		Slide unit	Track rail (per 100 mm)	H	H_1	N	W_2	W_3	W_4	L_1	L_2	L_3	M_1×depth	H_3	W	H_4	M_2	d_3	d_4	h	E	F	Bolt size× ℓ	C N	C_0 N	T_0 N·m	T_x N·m	T_y N·m
MLFC 18	LWLFC 18···B	○	26	90	12	3	6	30	21	4.5	26.5	–	16.6	M3×3	2.5	18	7	–	3.5	6.5	4.5	15	30	M3×8	1 510	2 120	19.4	5.5 35.9	4.7 30.1
MLFC 18···N*	LWLFC 18···N*	–	26	92														M4 Through	–	–	–			M4× ℓ (3) (Not appended)					
MLF 18		○	42	90							38.5	12	28.6					–	3.5	6.5	4.5			M3×8	2 280	3 810	34.9	16.9 88.8	14.2 74.5
	LWLF 18···B	○	44																									
–	LWLF 18···BCS	○																										
MLF 18···N*		–	42	92														M4 Through	–	–	–			M4× ℓ (3) (Not appended)					
	LWLF 18···N*	–	44																									
MLFG 18		○	59	90					23	3.5	50.5	24	40.4					–	3.5	6.5	4.5			M3×8	2 870	5 300	48.5	31.9 159	26.7 134
	LWLFG 18···B	○	61																									
MLFG 18···N*		–	59	92														M4 Through	–	–	–			M4× ℓ (3) (Not appended)					
	LWLFG 18···N*	–	61																									
MLFC 24		○	46	139	14	3	8	40	28	6	30.5	–	17.7	M3×3.5	3.2	24	8	–	4.5	8	4.5	20	40	M4×10	2 800	3 340	40.7	9.7 67.6	8.2 56.8
	LWLFC 24···B	○	45																									
MLF 24		○	74								44	15	31												4 310	6 200	75.6	30.6 168	25.7 141
	LWLF 24···B	○	76																									
–	LWLF 24···BCS	○																										
MLFG 24		○	108								59	28	46.3												5 620	9 060	111	63.3 321	53.1 270
	LWLFG 24···B	○	111																									

Notes (1) Track rail lengths L are shown in Table 3.2 on page Ⅱ−11 and Table 3.3 on page Ⅱ−12.
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
(3) Choose screws whose dimension allow fixing thread depth into track rail ℓ to be less than H_4.
(4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_x, T_y) are shown in the sketches below.
The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.

Remarks 1. The specification of oil hole is shown in Table 13 on page Ⅱ−18.
2. The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

Model code	Dimensions	Part code		Model code	Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MLF	G	18	C2	R300			T1	P		/D
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨	⑩

① Model

MLF	Wide type
LWLF···B	
LWLF···N	

② Length of slide unit

C	Short
No symbol	Standard
G	Long

③ Size: 18, 24

④ Number of slide unit (2)

⑤ Length of track rail (300 mm)

⑥ Material type

No symbol	Stainless steel made
CS	High carbon steel made

⑦ Preload amount

T0	Clearance
No symbol	Standard
T1	Light preload

⑧ Accuracy class

H	High
P	Precision

⑨ Interchangeable

No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

⑩ Special specification: A, BS, D, E, I, LR, MN, N, Q, RE, S, U, W, Y

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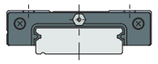
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

IKO C-Lube Linear Way ML

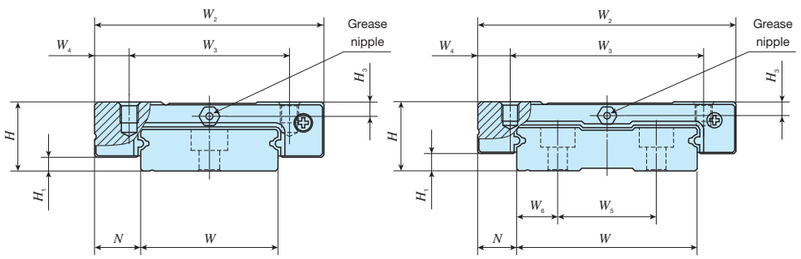
Wide type

MLF • LWLF

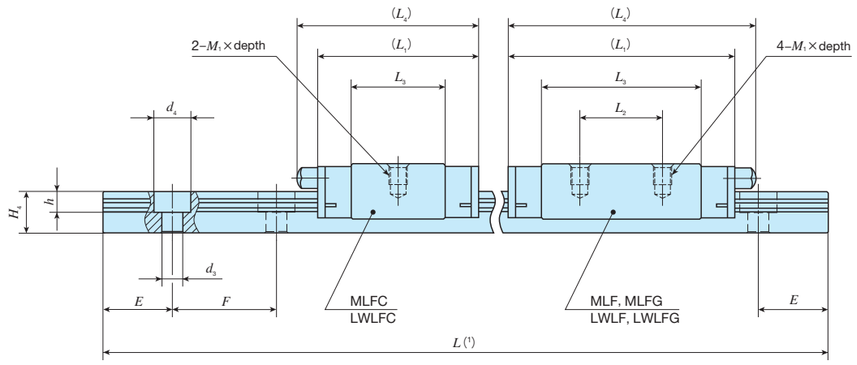
Shape



Size	2	4	6	10	14
	18	24	30	42	

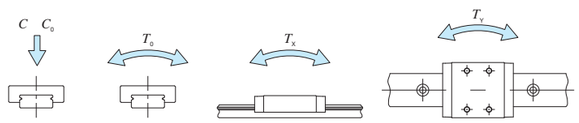


MLFC 42, LWLFC 42
MLF 42, LWLF 42
MLFG 42, LWLFG 42



Identification number		Interchangeable	Mass (Ref.) g		Dimensions of assembly mm			Dimensions of slide unit mm									Dimensions of track rail mm									Appended mounting bolt for track rail (2) mm	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
MLF series	LWLF series (No C-Lube)		Slide unit	Track rail (per 100 mm)	H	H_1	N	W_2	W_3	W_4	L_1	L_2	L_3	L_4	M_1×depth	H_3	W	H_4	W_5	W_6	d_3	d_4	h	E	F	Bolt size× ℓ	C	C_0	T_0	T_x	T_y
																											N	N	N · m	N · m	N · m
MLFC 30	LWLFC 30···B	○	70	198	15	3	10	50	35	7.5	35.5	–	20.5	40	M4×4.5	3.1	30	9	–	–	4.5	8	4.5	20	40	M4×12	3 890	4 540	69.1	15.4 107	13.0 89.9
MLF 30		○	111								49.5	18	34.8	54													5 970	8 440	128	48.7 256	40.8 215
	LWLF 30···B	○	112																												
–	LWLF 30···BCS	○																													
MLFG 30		○	167								68.5	35	53.8	73													7 810	12 300	187	100 508	84.3 426
	LWLFG 30···B	○	170																												
MLFC 42		○	95	294	16	4	9	60	45	7.5	41.5	–	25.7	46	M4×4.5	3.2	42	10	23	9.5	4.5	8	4.5	20	40	M4×12	5 440	6 810	144	30.8 180	25.8 151
	LWLFC 42···B	○											25.3														5 030	6 050	128	24.8 164	20.8 137
MLF 42		○	138								55	20	39.4	60													7 050	9 840	209	61.3 333	51.4 280
	LWLF 42···B	○	140										39																		
–	LWLF 42···BCS	○																													
MLFG 42		○	200								74.5	35	58.7	79													9 520	15 100	321	140 674	117 565
	LWLFG 42···B	○	204										58.3														9 200	14 400	305	126 644	106 541

Notes (1) Track rail lengths L are shown in Table 3.2 on page Ⅱ−11 and Table 3.3 on page Ⅱ−12.
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_x, T_y) are shown in the sketches below.
The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
Remark: The specifications of grease nipple are shown in Table 14 on page Ⅱ−18.



Example of identification number of assembled set

Model code	Dimensions	Part code		Model code	Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MLF	G	42	C2	R320			T1	P		/D
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨	⑩

① Model

MLF	Wide type
LWLF···B	

② Length of slide unit

C	Short
No symbol	Standard
G	Long

③ Size: 30, 42

④ Number of slide unit (2)

⑤ Length of track rail (320 mm)

⑥ Material type

No symbol	Stainless steel made
CS	High carbon steel made

⑦ Preload amount

T0	Clearance
No symbol	Standard
T1	Light preload

⑧ Accuracy class

H	High
P	Precision

⑨ Interchangeable

No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

⑩ Special specification: A, BS, D, E, Ⅰ, LR, MN, N, Q, RE, S, U, W, Y

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