

C-Lube Linear Way ME Linear Way E

ME • LWE



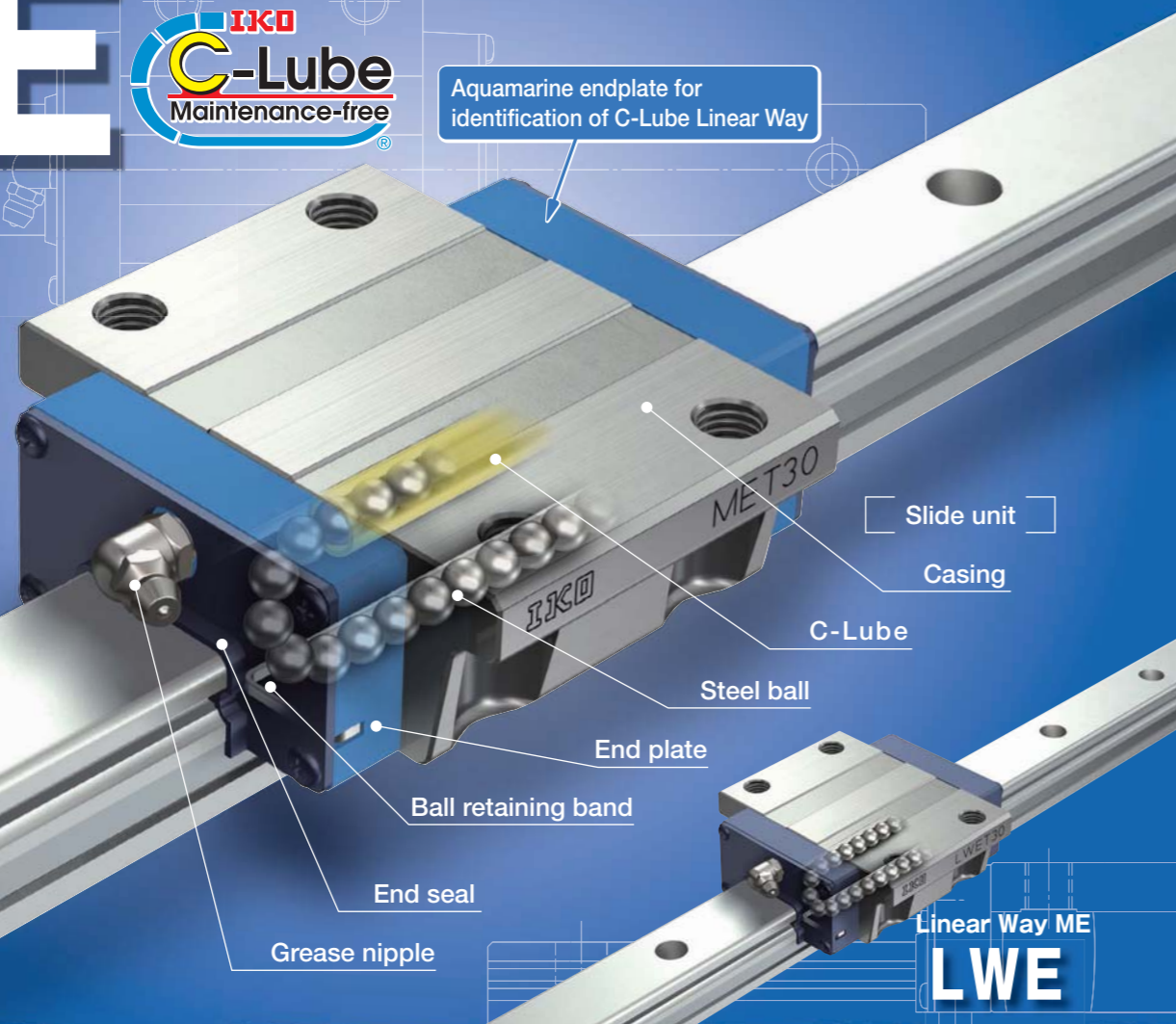
C-Lube Linear Way ME

ME



Aquamarine endplate for identification of C-Lube Linear Way

Track rail



Features

Compact utility series

Pursuit making lower, slimmer, and shorter to compact in all respects achieve a general and versatile linear motion rolling guide.

Wide variation corresponding to needs

Two shapes of slide unit, flanged type and block type are lined up with three variations in length of slide unit with same section. They are available for optimal products to fit for requirement of machine and equipment.

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.

Low Decibel type Linear Way E

Achieving smooth and quiet motion

Due to resin separator built-in balls, smooth and quiet motion is achieved by eliminating of direct contact of balls each other. This feature reduces noise level in factory and contributes eco-friendly.

Identification number and specification

The specifications of ME series and LWE(...Q) series are indicated by the identification number, consisting of a model code, a size, a part code, a material symbol, a preload symbol, a classification symbol, an interchangeable code and any supplemental codes.

Interchangeable specification	1	2	3	4	5	6	7	8	9	10
Slide unit only	ME	C	20	C1			T ₁	P	S1	/U
Track rail only ⁽¹⁾	LWE		20		R1000				P	S1 /F
Assembled set	ME	C	20	C1	R1000		T ₁	P	S1	/FU
Non interchangeable specification										
Assembled set	ME	C	20	C1	R1000		T ₁	P		/FU

- 1 Series: Model code on page II-43
- 2 Length of slide unit: Part code on page II-43
- 3 Size: Size on page II-43
- 4 Number of slide units: Part code on page II-43
- 5 Length of track rail: Material code on page II-43
- 6 Material: Material code on page II-43
- 7 Preload amount: Preload symbol on page II-46
- 8 Accuracy class: Classification symbol on page II-46
- 9 Interchangeable: Interchangeable code on page II-47
- 10 Special specification: Supplemental code on page II-47

Note (1) : For the model code of track rail of interchangeable specification, indicate "LWE" regardless of the slide unit type to be combined.

Identification number and specification — Series · Length of slide unit · Size —

1 Series	C-Lube Linear Way ME (ME series)	Flange type, mounting from bottom : ME Flange type, mounting from top : MET Block type, mounting from top : MES
	Linear Way E ⁽¹⁾ (LWE series)	Flange type mounting from bottom : LWE Flange type mounting from top : LWET Block type mounting from top : LWES
	Low Decibel Type Linear Way E ⁽¹⁾ (LWE...Q series)	Flange type mounting from bottom : LWE...Q Flange type mounting from top : LWET...Q Block type mounting from top : LWES...Q

Applicable size and shape of slide unit are shown in Table 1.
For the model code of a single track rail of interchangeable specification, indicate "LWE" regardless of the slide unit type to be combined.

Note (1) : Linear Way without C-Lube

2 Length of slide unit	Short	: C	Applicable size and shape of slide unit are shown in Table 1 below.
	Standard	: No symbol	
	High rigidity long	: G	

3 Size	15, 20, 25, 30, 35, 45	Applicable size and shape of slide unit are shown in Table 1 below.

4 Number of slide unit		: CO	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		: RO	Indicate the length of track rail in mm. For standard and maximum lengths, see "Track rail length" in Table 2.1 and 2.2 on page II-45.

6 Material	High carbon steel	: No symbol	Applicable size and shape of slide unit are shown in Table 1.
	Stainless steel	: SL	

— Number of slide unit · Length of slide unit · Material —

Table 1 Models and Size of ME and LWE (...Q)

Material	Shape	Length of slide unit	Series	Size					
				15	20	25	30	35	45
High carbon steel	Flange type, mounting from bottom	Short	MEC	○	○	○	○	○	—
			LWEC	○	○	○	○	○	—
		Standard	ME	○	○	○	○	○	○
			LWE	○	○	○	○	○	○
			LWE...Q	○	○	○	○	○	—
		High rigidity long	MEG	○	○	○	○	—	—
	LWEG		○	○	○	○	—	—	
	Flange type, mounting from top		Short	METC	○	○	○	○	○
		LWETC		○	○	○	○	○	—
		Standard	MET	○	○	○	○	○	○
			LWET	○	○	○	○	○	○
			LWET...Q	○	○	○	○	○	—
High rigidity long		METG	○	○	○	○	—	—	
	LWETG	○	○	○	○	—	—		
	Block type, mounting from top	Short	MESC	○	○	○	○	○	—
LWESC			○	○	○	○	○	—	
Standard		MES	○	○	○	○	○	○	
		LWES	○	○	○	○	○	○	
		LWES...Q	○	○	○	○	○	—	
High rigidity long		MESG	○	○	○	○	—	—	
	LWESG	○	○	○	○	—	—		
	Stainless steel	Flange type, mounting from bottom	Short	MEC...SL	○	○	○	○	—
LWEC...SL				○	○	○	○	—	—
Standard			ME...SL	○	○	○	○	—	—
			LWE...SL	○	○	○	○	—	—
			LWE...Q...SL	○	○	○	○	—	—
High rigidity long			MEG...SL	○	○	○	○	—	—
		LWEG...SL	○	○	○	○	—	—	
		Flange type, mounting from top	Short	METC...SL	○	○	○	○	—
LWETC...SL				○	○	○	○	—	—
Standard			MET...SL	○	○	○	○	—	—
			LWET...SL	○	○	○	○	—	—
			LWET...Q...SL	○	○	○	○	—	—
High rigidity long	METG...SL		○	○	○	○	—	—	
	LWETG...SL	○	○	○	○	—	—		
	Block type, mounting from top	Short	MESC...SL	○	○	○	○	—	—
LWESC...SL			○	○	○	○	—	—	
Standard		MES...SL	○	○	○	○	—	—	
		LWES...SL	○	○	○	○	—	—	
		LWES...Q...SL	○	○	○	○	—	—	
High rigidity long		MESG...SL	○	○	○	○	—	—	
	LWESG...SL	○	○	○	○	—	—		


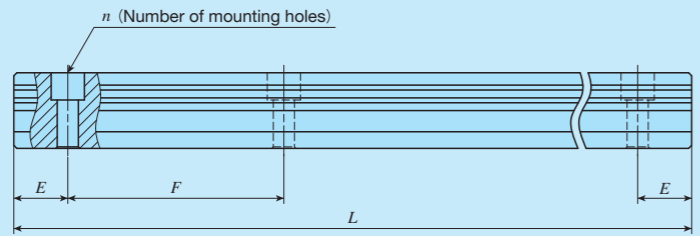
Remark : The mark  indicates that interchangeable specification is available.

Table 2.1 Standard and maximum lengths of high carbon steel track rails



Item	Model number	ME 15 LWE 15 LWE 15...Q	ME 20 LWE 20 LWE 20...Q	ME 25 LWE 25 LWE 25...Q	ME 30 LWE 30 LWE 30...Q	ME 35 LWE 35 LWE 35...Q	ME 45 LWE 45
	Standard length $L(n)$		160 (3) 220 (4) 280 (5) 340 (6) 460 (8) 640 (11) 820 (14)	220 (4) 280 (5) 340 (6) 460 (8) 640 (11) 820 (14) 1 000 (17) 1 240 (21)	220 (4) 280 (5) 340 (6) 460 (8) 640 (11) 820 (14) 1 000 (17) 1 240 (21) 1 600 (27)	280 (4) 440 (6) 600 (8) 760 (10) 1 000 (13) 1 240 (16) 1 640 (21) 2 040 (26) 2 520 (32) 3 000 (38)	280 (4) 440 (6) 600 (8) 760 (10) 1 000 (13) 1 240 (16) 1 640 (21) 2 040 (26) 2 520 (32) 3 000 (38)
Pitch of mounting holes F		60	60	60	80	80	105
$E^{(1)}$		20	20	20	20	20	22.5
Standard range of $E^{(2)}$	incl.	6	8	9	9	10	12
	under	36	38	39	49	50	64.5
Maximum length ⁽³⁾		1 600 (2 980)	2 200 (2 980)	2 980 (4 000)	3 000 (3 960)	3 000 (3 960)	2 985 (3 930)

unit : mm

Notes (1) : When specifying a butt-jointing interchangeable track rail (supplemental code "T"), pay attention to the E dimension at the butt-jointing part.

(2) : Not applicable to the track rail with female threads for bellows (supplemental code "J").

(3) : Track rails with the maximum lengths shown in parentheses can also be manufactured. Consult **IKO** for further information.

In LWE...Q, values in () is not applicable.

Remarks 1 : The above table shows representative model numbers but is applicable to all models of the same size.

2 : For the model code of track rail of interchangeable specification, indicate "LWE" regardless of the slide unit type to be combined.

Table 2.2 Standard and maximum lengths of stainless steel track rails

Item	Model number	ME 15...SL LWE 15...SL	ME 20...SL LWE 20...SL	ME 25...SL LWE 25...SL	ME 30...SL LWE 30...SL
	Standard length $L(n)$		160 (3) 220 (4) 280 (5) 340 (6) 460 (8) 640 (11) 820 (14)	220 (4) 280 (5) 340 (6) 460 (8) 640 (11) 820 (14) 1 000 (17)	220 (4) 280 (5) 340 (6) 460 (8) 640 (11) 820 (14) 1 000 (17)
Pitch of mounting holes F		60	60	60	80
$E^{(1)}$		20	20	20	20
Standard range of $E^{(2)}$	incl.	6	8	9	9
	under	36	38	39	49
Maximum length ⁽³⁾		1 200 (1 600)	1 200 (1 960)	1 200 (1 960)	1 200 (1 960)

unit : mm

Notes (1) : When specifying a butt-jointing interchangeable track rail (supplemental code "T"), pay attention to the E dimension at the butt-jointing part.

(2) : Not applicable to the track rail with female threads for bellows (supplemental code "J").

(3) : Track rails with the maximum lengths shown in parentheses can also be manufactured. Consult **IKO** for further information.

Remarks 1 : The above table shows representative model numbers but is applicable to all models of the same size.

2 : For the model code of track rail of interchangeable specification, indicate "LWE" regardless of the slide unit type to be combined.

7 Preload amount

Clearance	: T _c	Specify this item for an assembled set or a single slide unit.
Standard	: No symbol	
Light preload	: T ₁	For applicable combinations of accuracy and preload amount, see Table 3. For details of preload amount, see Table 4.
Medium preload	: T ₂	

8 Accuracy class

Ordinary	: No symbol	For applicable combinations of accuracy and preload amount, see Table 5. In case of interchangeable specification products, assemble slide units and track rails of the same class. For details of accuracy, see Table 4.
High class	: H	
Precision class	: P	
Super precision	: SP	

Table 3 Preload amount

Preload type	Symbol	Preload amount N	Application
Clearance	T _c	0 ⁽¹⁾	· Very smooth motion · To absorb slight misalignment
Standard	(No symbol)	0 ⁽²⁾	· Very smooth motion
Light preload	T ₁	0.02C ₀	· Minimum vibration · Load is evenly balanced. · Smooth and precise motion
Medium preload	T ₂	0.05C ₀	· Medium vibration · Medium overhung load

Notes (1) : Clearance of about 10 μm

(2) : Zero or minimal amount of preload

Remark : C₀ means the basic static load rating.

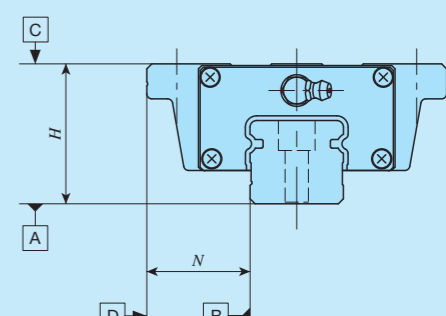
Table 4 Accuracy class and preload

Accuracy class (Symbol)	Ordinary (No symbol)	High (H)	Precision (P)	Super precision (SP)
Preload (Symbol)				
Clearance (T _c) ⁽¹⁾	○	—	—	—
Standard (No symbol)	○	○	○	○
Light preload (T ₁)	—	○	○	○
Medium preload (T ₂) ⁽¹⁾	—	○	○	○

Note (1) : Not applicable to LWE...Q.

Remark : The mark indicates that interchangeable specification products are available.

Table 5 Accuracy



Classification (symbol)	Ordinary (No symbol)	High (H)	Precision (P)	Super precision (SP)
Dim. H tolerance	±0.080	±0.040	±0.020	±0.010
Dim. N tolerance	±0.100	±0.050	±0.025	±0.015
Dim. variation of $H^{(1)}$	0.025	0.015	0.007	0.005
Dim. variation of $N^{(1)}$	0.030	0.020	0.010	0.007
Dim. variation of H for multiple assembled sets ⁽²⁾	0.045	0.035	0.025	—
Parallelism in operation of C to A	See Fig. 1.			
Parallelism in operation of D to B	See Fig. 1.			

unit : mm

Notes (1) : It means the size variation between slide units mounted on the same track rail.

(2) : It applies to the interchangeable specification.

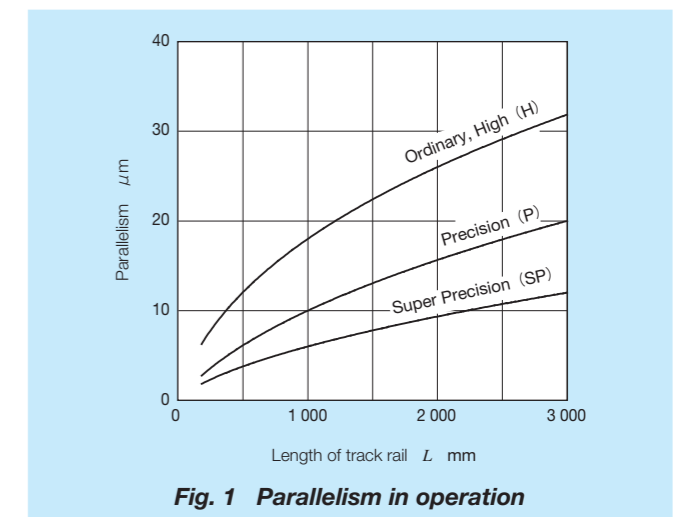
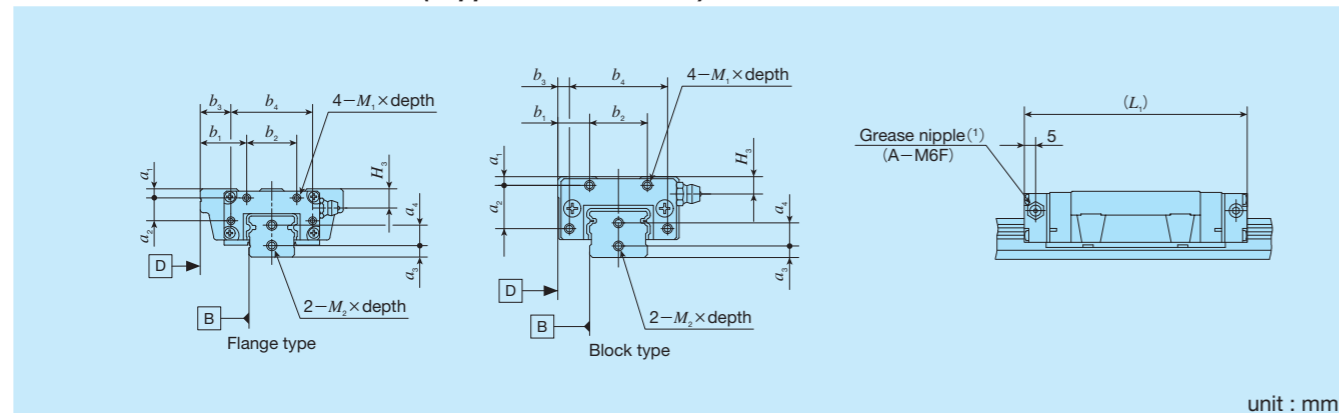


Table 8 Female threads for bellows (Supplemental code /JJ)



Model number			Slide unit								Track rail										
			a ₁	a ₂	b ₁	b ₂	b ₃	b ₄	M ₁ ×depth	L ₁ ⁽²⁾	H ₁	a ₃	a ₄	M ₂ ×depth							
ME(T)C 15	LWE(T)C 15	—	3	12	18	12	28	M3×6	58	5.7	4	7	M3×6								
ME(T) 15	LWE(T) 15	LWE(T) 15...Q			74																
ME(T)G 15	LWE(T)G 15	—			87																
MESC 15	LWESC 15	—			58																
MES 15	LWES 15	LWES 15...Q			74																
MESG 15	LWESG 15	—			87																
ME(T)C 20	LWE(T)C 20	—			3	15			19.5					12.5	34	M3×6	64	6	4	8	M3×6
ME(T) 20	LWE(T) 20	LWE(T) 20...Q							83												
ME(T)G 20	LWE(T)G 20	—							99												
MESC 20	LWESC 20	—							64												
MES 20	LWES 20	LWES 20...Q	83																		
MESG 20	LWESG 20	—	99																		
ME(T)C 25	LWE(T)C 25	—	3.5	17			23.5	16.5	40	M3×6	76	7	5	9			M4×8				
ME(T) 25	LWE(T) 25	LWE(T) 25...Q					100														
ME(T)G 25	LWE(T)G 25	—					119														
MESC 25	LWESC 25	—					76														
MES 25	LWES 25	LWES 25...Q			100																
MESG 25	LWESG 25	—			119																
ME(T)C 30	LWE(T)C 30	—			5	17	28	34			50				M3×6	83		11	6	14	M4×8
ME(T) 30	LWE(T) 30	—					112														
—	—	LWE(T) 30...Q					111														
ME(T)G 30	LWE(T)G 30	—					144														
MESC 30	LWESC 30	—	83																		
MES 30	LWES 30	—	112																		
—	—	LWES 30...Q	111																		
MESG 30	LWESG 30	—	144																		
ME(T)C 35	LWE(T)C 35	—	6	20			30	20	60	M3×6		93	13	7		15	M4×8				
ME(T) 35	LWE(T) 35	—					126														
—	—	LWE(T) 35...Q			125																
MESC 35	LWESC 35	—			93																
MES 35	LWES 35	—			126																
—	—	LWES 35...Q			125																
ME(T) 45	LWE(T) 45	—			7	26	35	23			74	M4×8			138			15	8	19	M5×10
MES 45	LWES 45	—					18	6							125						

Notes (1) : The specification and mounting positions of grease nipple are different from those of the standard specification product. Size 15 models are provided with a special specification grease nipple (NPB2 type). For detail of dimensions, consult **IKO** for further information.

(2) : The values are for the slide unit with female threads for bellows at both ends.

Remark : The table shows representative model numbers but is applicable to stainless steel type models of the same size.

Table 9 Track rail mounting bolt size (Supplemental code /MA)

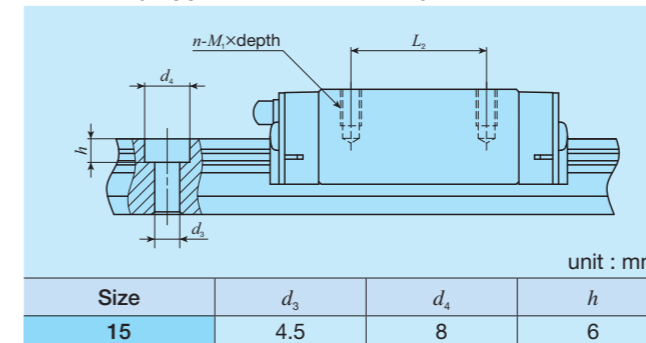
Size	Bolt size for track rail
15	M 3×16 M 4×16 ⁽¹⁾
20	M 5×16
25	M 6×20
30	M 6×25
35	M 8×30
45	M10×35

Note (1) : Applicable to the track rail of supplemental code "/M4" of special specification.

Remarks 1 : Stainless steel bolts are appended for stainless steel mode track rail.

2 : Hexagon socket bolts of JIS B 1176 or equivalent.

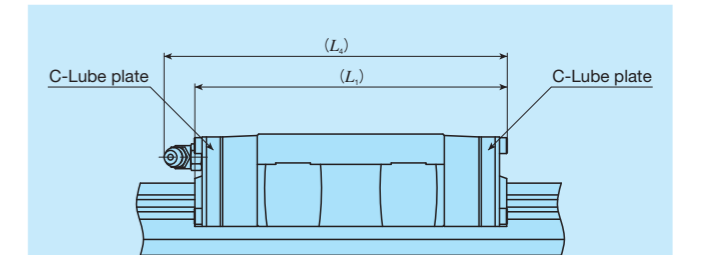
Table 10 Changed size of mounting holes (Supplemental code /M4)



unit : mm

Size	d ₃	d ₄	h
15	4.5	8	6

Table 11 Slide unit with C-Lube plates (Supplemental code /Q)



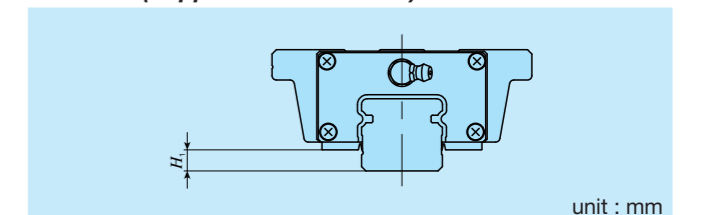
unit : mm

Model number	L ₁	L ₂
LWEC 15	—	52
LWE 15	—	68
—	LWE15...Q	70
LWEG 15	—	81
LWEC 20	—	58
LWE 20	LWE20...Q	78
LWEG 20	—	94
LWEC 25	—	70
LWE 25	LWE25...Q	94
LWEG 25	—	113
LWEC 30	—	80
LWE 30	LWE30...Q	109
LWEG 30	—	141
LWEC 35	—	90
LWE 35	—	123
—	LWE35...Q	124
LWE 45	—	138
—	—	148

Remarks 1 : The values for a slide unit with C-Lube plates at both ends are shown.

2 : The above table shows representative model numbers but is applicable to all models of the same size.

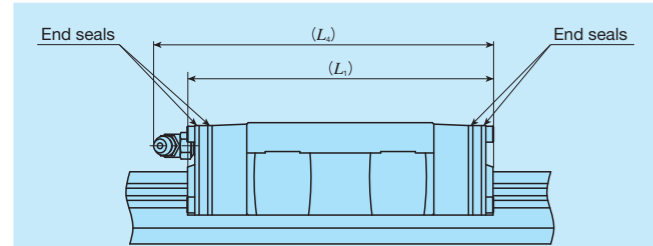
Table 12 H1 dimension of slide unit with under seals (Supplemental code /U)



unit : mm

Size	H ₁
15	5
20	5
25	6
30	9
35	10
45	13

Table 13 Slide unit with double end seals (Supplemental code IV, IVV)



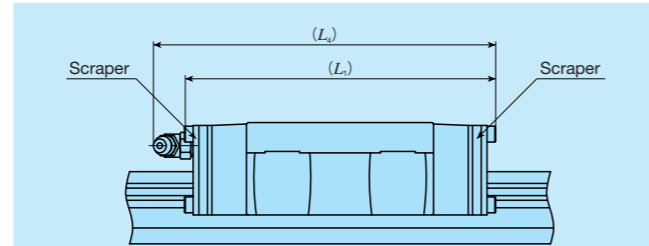
unit : mm

Model number	L_1	L_4
MEC 15	48	50
ME 15	64	66
MEG 15	76	78
MEC 20	54	68
ME 20	73	87
MEG 20	89	103
MEC 25	67	80
ME 25	91	104
MEG 25	110	123
MEC 30	78	89
ME 30	107	118
MEG 30	138	150
MEC 35	88	101
ME 35	121	134
ME 45	137	148

Remarks 1 : The total lengths of slide unit with double end seals at both ends are shown.

2 : The table shows representative model numbers but is applicable to all models of the same size.

Table 14 Slide unit with scrapers (Supplemental code IZ, IZZ)



unit : mm

Model number	L_1	L_4
MEC 15	48	50
ME 15	64	66
MEG 15	77	79
MEC 20	55	69
ME 20	75	88
MEG 20	91	104
MEC 25	69	81
ME 25	93	105
MEG 25	112	124
MEC 30	79	90
ME 30	108	119
MEG 30	140	151
MEC 35	89	101
ME 35	122	134
ME 45	138	148

Remarks 1 : The total lengths of slide unit with scrapers at both ends are shown.

2 : The table shows representative model numbers but is applicable to all models of the same size.

Lubrication

Lithium-soap base grease (ALVANIA grease EP 2: SHELL) is pre-packed in ME and LWE(...Q) series slide units. In ME, C-Lube (Capillary sleeve) a component part is placed in the ball recirculation path, thereby extending the re-lubrication (greasing) interval time and reducing maintenance work for a long period. ME and LWE series are provided with grease nipple shown in Table 15. Supply nozzles matching the size of grease nipple are also available. For these parts for lubrication, refer to Table 15.1 on page III-22 and Table 16 on page III-23 and consult **IKO** for further information.

Table 15 Parts for lubrication

Size	Grease nipple ⁽¹⁾	Applicable supply nozzle type	Nominal size of female threads for piping
15	A-M4	A-5120V A-5240V B-5120V B-5240V	M4
20	B-M6	Grease gun available on the market	M6
25			
30			
35	JIS type 4		PT1/8
45			

Note⁽¹⁾ : In grease nipple specification please see Table 15.1 and 15.2 on page III-22.

Dust Protection

The ME and LWE(...Q) series of slide units are equipped with end seals as standard for protection against dust. If Linear way will be used in a working environment that contains lots of dust, contaminants, or comparatively large particles such as chips and sands that may cover its track rail, **IKO** recommend protecting the linear motion parts against them with a protective cover or the like. Bellows to match the dimension of ME and LWE(...Q) are optionally available. Please refer to page III-25 for ordering.

Precautions for Use

① Mounting surface, reference mounting surface, and general mounting structure

To mount ME series or LWE (...Q) series, correctly fit the reference mounting surfaces B and D of the slide unit and the track rail to the reference mounting surfaces of the table and the bed, and then fix them tightly. (See Fig. 2)

The reference mounting surfaces B and D and mounting surfaces A and C of ME series or LWE (...Q) series, are accurately finished by grinding. Stable and high accuracy linear motion can be obtained by finishing the mating mounting surfaces of machines or equipment with high accuracy and correctly mounting the guide on these surfaces.

The slide unit reference mounting surface is always the side surface opposite to the **IKO** mark. The track rail reference mounting surface is identified by locating the **IKO** mark on the top surface of the track rail. The track rail reference mounting surface is the side surface above the **IKO** mark (in the direction of the arrow). (See Fig. 3)

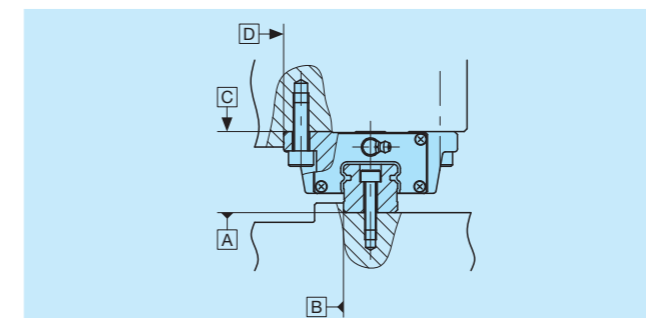


Fig. 2 Reference mounting surfaces and general mounting structure of Linear Way

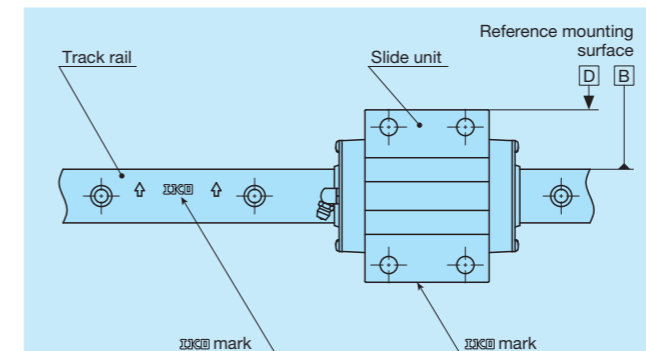
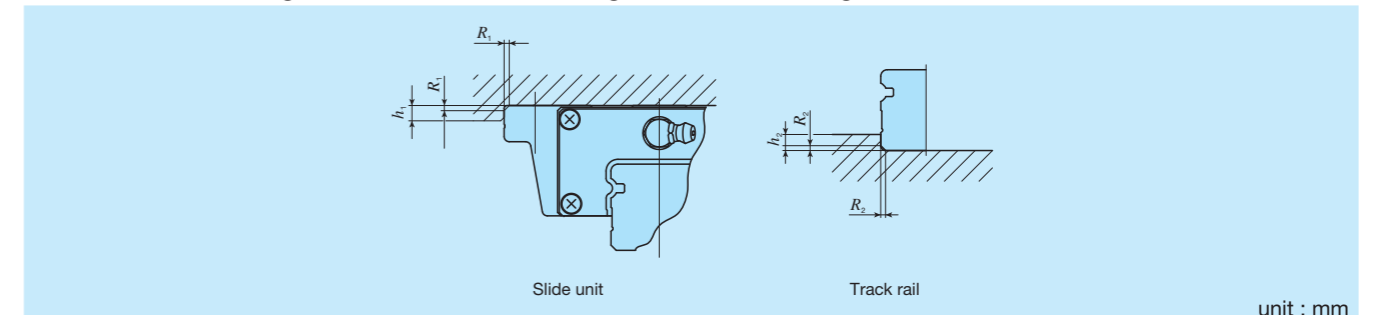


Fig. 3 Reference mounting surfaces of Linear Way

Table 17 Shoulder heights and corner of the mating reference mounting



unit : mm

Model number	Slide unit		Track rail	
	Shoulder height h_1	Comer radius R_1 (max.)	Shoulder height h_2	Comer radius R_2 (max.)
15	4	1 (0.5) ⁽¹⁾	3	0.5
20	5	1 (0.5) ⁽¹⁾	3	0.5
25	6	1	4	1
30	8	1	5	1
35	8	1	6	1
45	8	1.5	7	1.5

Note⁽¹⁾ : In MES and LWES(...Q), values in () are applicable.

② Corner radius and shoulder height of reference mounting surfaces

It is recommended to make a relieved fillet at the corner of the mating reference mounting surfaces as shown in Fig. 4. However, in some series, corner radii R1 and R2 shown in Fig. 4 can also be used. Table 17 show recommended shoulder heights and corner radii of the mating reference mounting surfaces.

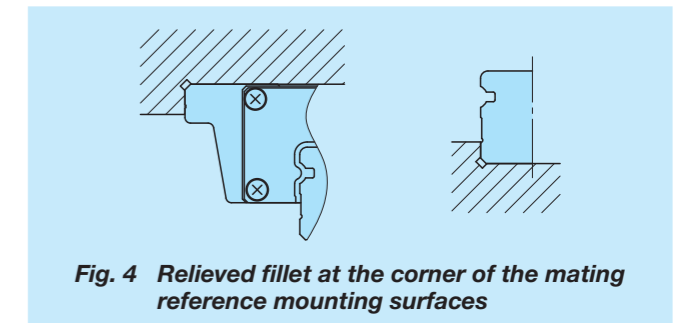


Fig. 4 Relieved fillet at the corner of the mating reference mounting surfaces

③ Tightening torque of mounting bolts

The standard torque values for ME and LWE(...Q) series mounting bolts are shown in Tables 16. When machines or equipment are subjected to severe vibration, shock, large fluctuating load, or moment load, the bolts should be tightened with a torque 1.2 to 1.5 times higher than the standard torque values shown.

When the mating member material is cast iron or aluminum, tightening torque should be lowered in accordance with the strength characteristics of the material.

Table 16 Tightening torque of mounting bolts of Linear Way

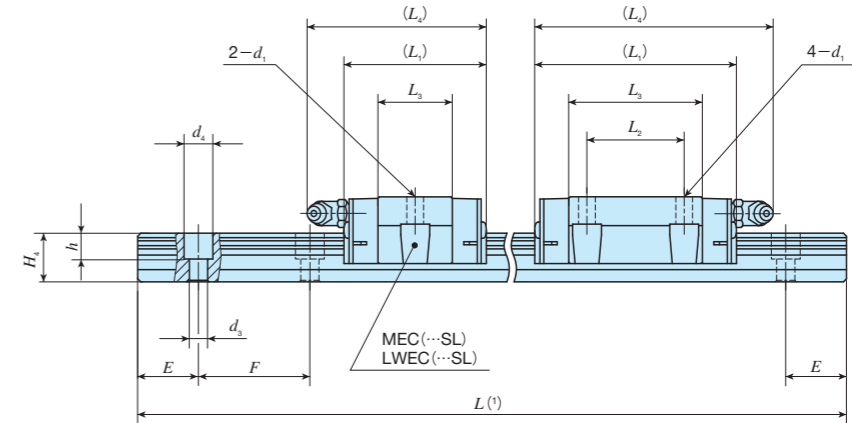
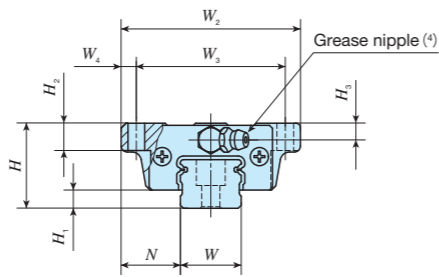
Bolt size	Tightening torque N·m	
	Carbon steel bolt	Stainless steel bolt
M 3×0.5	1.7	1.1
M 4×0.7	4.0	2.5
M 5×0.8	7.9	5.0
M 6×1	13.3	8.5
M 8×1.25	32.0	20.4
M10×1.5	62.7	—
M12×1.75	108	—

Remark : The values show recommended tightening torque for strength division 12.9 (for carbon steel bolt) and property division A2-70 (for stainless steel bolt).

IKO C-Lube Linear Way ME

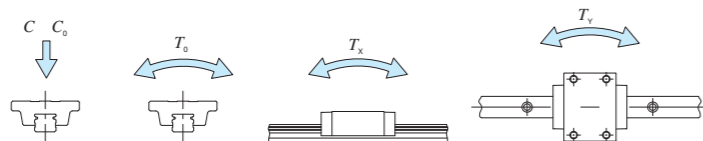
Flange type, mounting from bottom

Shape	ME • LWE		
Size	15	20	25
	30	35	45



Model number	Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm						Recommended mounting bolt for track rail mm Bolt size × length	Basic ⁽³⁾ dynamic load rating C N	Basic ⁽³⁾ static load rating C ₀ N	Static moment rating ⁽³⁾																																												
		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	d ₁	H ₂	H ₃	W	H ₄	d ₃				d ₄	h	E	F	T ₀ N·m	T _x N·m	T _y N·m																																						
MEC 15	LWEC 15	0.11	1.57	24	5.8	18.5	52	41	5.5	41	—	22.4	45	4.5	7	4.5	15	14.5	3.6 (4.5)	6.5 (8)	4.5 (6)	20	60	M3×16 (M4×16)	5 240	5 480	43.8	21.3 ³ 149	21.3 ³ 149																																						
MEC 15...SL	LWEC 15...SL									61	38.4	70	36												51.1	73	58	78	5.5	94	59.9	9	5.5	20	16	6	9.5	8.5	20	60	M5×16	7 640	9 390	75.1	57.6 ⁶ 333	57.6 ⁶ 333																					
ME 15	LWE 15																																									5	38.3	70	36	51.1	73	58	78	5.5	94	59.9	9	5.5	20	16	6	9.5	8.5	20	60	M5×16	6 550	8 610	68.9	53.0 ⁰ 307	53.0 ⁰ 307
ME 15...SL	LWE 15...SL																																																														9 340	12 500	100	99.5 ⁵ 533	99.5 ⁵ 533
MEG 15	LWEG 15	0.24			5.8																																																														
MEC 20	LWEC 20	0.18	2.28	28	6	19.5	59	49	5	47	—	24.7	58	5.5	9	5.5	20	16	6	9.5	8.5	20	60	M5×16	7 580	7 340	78.9	31.5 ⁵ 235	31.5 ⁵ 235																																						
MEC 20...SL	LWEC 20...SL									67	32	44.2	78												5.5					94	59.9	9	5.5	20	16	6	9.5	8.5	20	60	M5×16	7 570	11 600	145	95.6 ⁶ 561	95.6 ⁶ 561																					
ME 20	LWE 20																																									44	44	78	5.5	94	59.9	9	5.5	20	16	6	9.5	8.5	20	60	M5×16	10 500	13 400	145	100 ⁰ 557	100 ⁰ 557					
ME 20...SL	LWE 20...SL																																																									14 400					18 300	197	172 ⁹ 918	172 ⁹ 918	
MEG 20	LWEG 20	0.40			6																																																														
MEG 20...SL	LWEG 20...SL																																																																		

Notes (1) : Track rail lengths *L* are shown in Table 2.1 and 2.2 on page II-45.
 (2) : Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 or equivalent are recommended.
 (3) : 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.
 (4) : For grease nipple specifications, see Table 15 on page II-51.
 Remark : Values in parentheses are applicable to the track rail of supplemental code "/M4" of special specification.



Example of identification number of assembled set

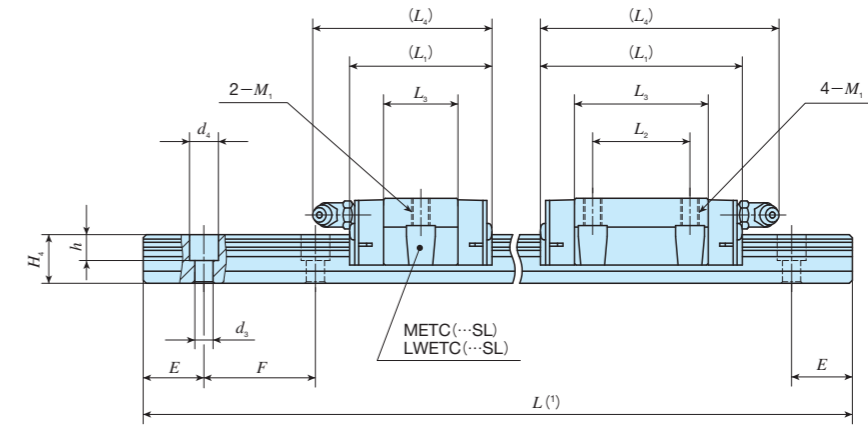
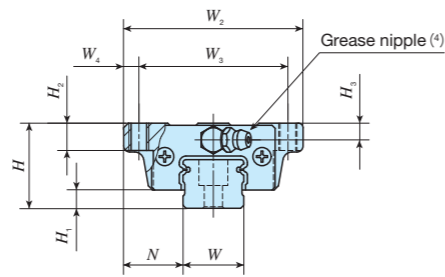
Model code	Size	Part code	Model code	Material	Preload amount	Class symbol	Interchangeable code	Supplemental code
ME	G	15	C2	R340	T1	P	S1	/U
1	2	3	4	5	6	7	8	9

1 Series ME Flange type, mounting from bottom LWE LWE...Q	2 Length of slide unit C Short No symbol Standard G High rigidity long	3 Size 15, 20	4 Number of slide unit (two slide units)	5 Length of track rail (340mm)	6 Material No symbol High carbon steel SL Stainless steel	7 Preload amount T0 Clearance No symbol Standard T1 Light preload T2 Medium preload	8 Accuracy class No symbol Ordinary H High P Precision SP Super precision	9 Interchangeable code S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification	10 Special specification A, BS, D, E, F, I, J, L, LF, MA, M4 N, Q, RE, T, U, V, W, Y, Z
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IKO C-Lube Linear Way ME

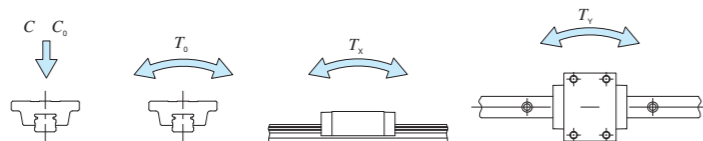
Flange type, mounting from top

Shape	MET • LWET		
Size	15	20	25
	30	35	45



Model number	Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm						Recommended mounting bolt for track rail mm Bolt size × length	Basic ⁽³⁾ dynamic load rating C N	Basic ⁽³⁾ static load rating C ₀ N	Static moment rating ⁽³⁾									
		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	M ₁	H ₂	H ₃	W	H ₄	d ₃				d ₄	h	E	F	T ₀ N·m	T _x N·m	T _y N·m			
METC 15	LWETC 15	0.11								41	—	22.4	45															5 240	5 480	43.8	21.3 149 ³	21.3 149 ³
METC 15...SL	LWETC 15...SL				5.8																											
MET 15	LWET 15	0.18	1.57	24		18.5	52	41	5.5	57	26	38.4	61	M5	7	4.5	15	14.5	3.6 (4.5)	6.5 (8)	4.5 (6)	20	60	M3×16 (M4×16)			7 640	9 390	75.1	57.6 333	57.6 333	
—	LWET 15...Q	—			5							38.3																				
METG 15	LWETG 15	0.24			5.8					70	36	51.1	73															9 340	12 500	100	99.5 533 ⁵	99.5 533 ⁵
METC 20	LWETC 20	0.18								47	—	24.7	58															7 580				
METC 20...SL	LWETC 20...SL											24.5																7 570	7 340	78.9	31.5 235 ⁵	31.5 235 ⁵
MET 20	LWET 20	0.30	2.28	28	6	19.5	59	49	5	67	32	44.2	78	M6	9	5.5	20	16	6	9.5	8.5	20	60	M5×16			11 600	13 400	145	95.6 561 ⁶	95.6 561 ⁶	
—	LWET 20...Q	—			5							44																10 500			100 557	100 557
METG 20	LWETG 20	0.40			6					83	45	60.1	94															14 400	18 300	197	172 918	172 918
METG 20...SL	LWETG 20...SL											59.9																				
												60.1																				

Notes (1) : Track rail lengths *L* are shown in Table 2.1 and 2.2 on page II-45.
 (2) : Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 or equivalent are recommended.
 (3) : The directions of basic dynamic load rating (*C*), basic static load rating (*C₀*) and static moment rating (*T₀*, *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.
 (4) : For grease nipple specifications, see Table 15 on page II-51.
 Remark : Values in parentheses are applicable to the track rail of supplemental code "/M4" of special specification.



Example of identification number of assembled set

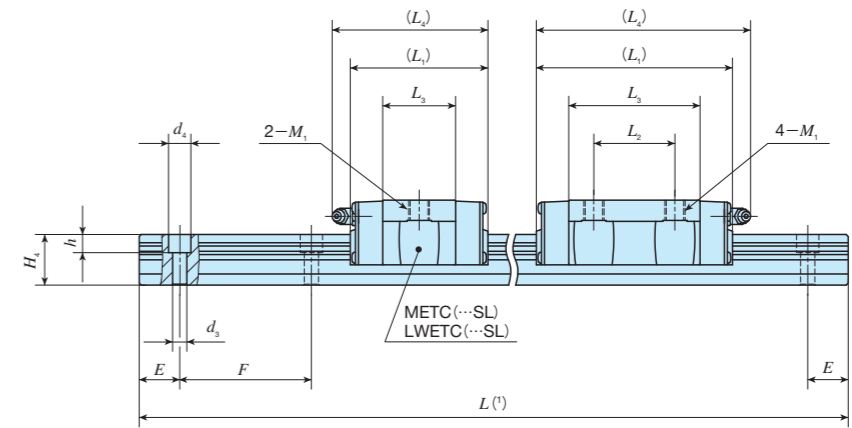
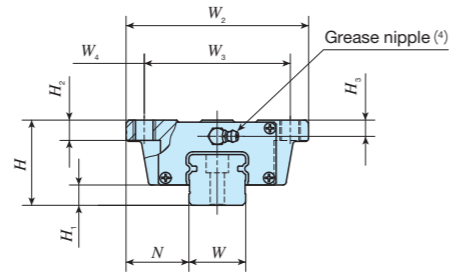
Model code	Size	Part code	Model code	Material	Preload amount	Class symbol	Interchangeable code	Supplemental code
MET	G	15	C2	R340	T1	P	S1	/U
1	2	3	4	5	6	7	8	9

1 Series MET Flange type, mounting from top LWET LWET...Q	3 Size 15, 20	7 Preload amount T0 Clearance No symbol Standard T1 Light preload T2 Medium preload	9 Interchangeable code S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification
2 Length of slide unit C Short No symbol Standard G High rigidity long	5 Length of track rail (340mm)	8 Accuracy class No symbol Ordinary H High P Precision SP Super precision	10 Special specification A, BS, D, E, F, I, J, L, LF, MA, M4 N, Q, RE, T, U, V, W, Y, Z
6 Material No symbol High carbon steel SL Stainless steel			

IKO C-Lube Linear Way ME

Flange type, mounting from top

Shape	MET • LWET		
Size	15	20	25
	30	35	45



Model number	Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm							Recommended mounting bolt for track rail mm Bolt size × length	Basic ⁽³⁾ dynamic load rating C N	Basic ⁽³⁾ static load rating C ₀ N	Static moment rating ⁽³⁾								
		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	M ₁	H ₂	H ₃	W	H ₄	d ₃	d ₄				h	E	F	T ₀ N·m	T _x N·m	T _y N·m			
METC 25	LWETC 25	○	0.33							59	—	32	70															12 400	12 300	153	71.8 480	71.8 480
METC 25...SL	LWETC 25...SL	○			7																							18 100	21 100	262	195 1 090	195 1 090
MET 25	LWET 25	○	0.56	3.09	33					83	35	56	94	M 8	10	6.5	23	19	7	11	9	20	60	M 6×20			15 500	19 400	240	175 1 010	175 1 010	
MET 25...SL	LWET 25...SL	○			6																							22 200	28 200	349	336 1 740	336 1 740
METG 25	LWETG 25	○	0.73		7					102	50	75	113															20 600	18 800	287	129 855	129 855
METC 30	LWETC 30	○	0.58							68	—	36	78															29 500	31 300	479	328 1 920	328 1 920
METC 30...SL	LWETC 30...SL	○		5.09																								21 600	26 400	398	278 1 570	278 1 570
MET 30	LWET 30	○	0.99		42	10	31	90	72	9				M10	10	8	28	25	7	11	9	20	80	M 6×25			39 200	47 000	718	704 3 670	704 3 670	
MET 30...SL	LWET 30...SL	○		5.04																								29 900	26 800	412	176 1 190	162 1 100
METG 30	LWETG 30	○	1.50							129	60	96.5	139															42 900	44 700	686	448 2 660	412 2 450
METG 30...SL	LWETG 30...SL	○		5.09																								30 500	37 600	687	482 2 530	482 2 530
METC 35	LWETC 35	○	0.84		48	11	33	100	82	9				M10	13	10	34	28	9	14	12	20	80	M 8×30			61 100	60 200	1 210	672 4 070	618 3 750	
MET 35	LWET 35	○	1.52																									30 500	37 600	687	482 2 530	482 2 530
MET 35...Q	LWET 35...Q	—	1.53	6.84						110	50	76.6	122															61 100	60 200	1 210	672 4 070	618 3 750
MET 45	LWET 45	○	2.46	11.2	60	14	37.5	120	100	10	125	60	81.4	M12	15	13	45	34	11	17.5	14	22.5	105	M10×35			61 100	60 200	1 210	672 4 070	618 3 750	

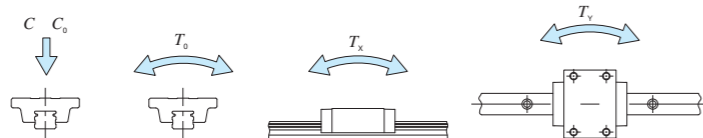
Notes ⁽¹⁾ : Track rail lengths L are shown in Table 2.1 and 2.2 on page II-45.

⁽²⁾ : Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 or equivalent are recommended.

⁽³⁾ : The directions of basic dynamic load rating (C), basic static load rating (C₀) and static moment rating (T₀, 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.

⁽⁴⁾ : For grease nipple specifications, see Table 151 on page II-51.



Example of identification number of assembled set

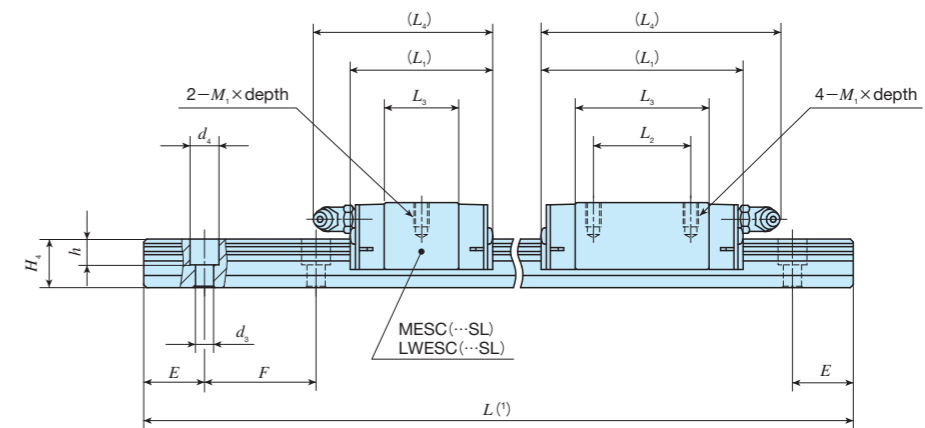
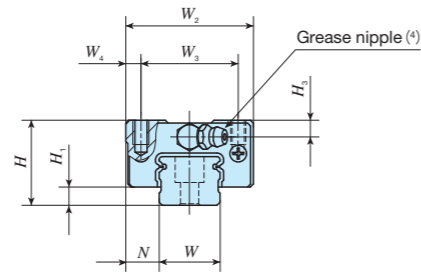
Model code	Size	Part code	Model code	Material	Preload amount	Class symbol	Interchangeable code	Supplemental code
MET	G	30	C2	R440	T1	P	S1	/U
1	2	3	4	5	6	7	8	9

1 Series	3 Size	7 Preload amount	9 Interchangeable code
MET LWET LWET...Q	25, 30, 35, 45	T0 Clearance No symbol Standard T1 Light preload T2 Medium preload	S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification
2 Length of slide unit	4 Number of slide unit (two slide units)	8 Accuracy class	10 Special specification
C Short No symbol Standard G High rigidity long		No symbol Ordinary H High P Precision SP Super precision	A, BS, D, E, F, I, J, L, LF, MA, N Q, RE, T, U, V, W, Y, Z
5 Length of track rail (440mm)	6 Material		
	No symbol High carbon steel SL Stainless steel		

IKO C-Lube Linear Way ME

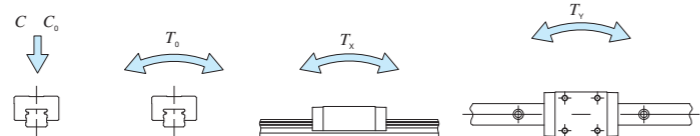
Block type, mounting from top

Shape	MES • LWES		
Size	15	20	25
	30	35	45



Model number	Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm						Recommended ⁽²⁾ mounting bolt for track rail mm	Basic ⁽³⁾ dynamic load rating C N	Basic ⁽³⁾ static load rating C ₀ N	Static moment rating ⁽³⁾									
		Slide unit kg	Track rail kg/m	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	d ₃	d ₄				h	E	F	T ₀ N·m	T _x N·m	T _y N·m				
MESC 15	LWESC 15	0.09								41	-	22.4	45															5 240	5 480	43.8	21.3 149	21.3 149
MESC 15...SL	LWESC 15...SL				5.8																											
MES 15	LWES 15	0.14	1.57	24		9.5	34	26	4	57	26	38.4	61	M4×7	4.5	15	14.5	3.6 (4.5)	6.5 (8)	4.5 (6)	20	60	M3×16 (M4×16)				7 640	9 390	75.1	57.6 333	57.6 333	
-	LWES 15...Q				5							38.3																				
MESG 15	LWESG 15	0.18			5.8					70	36	51.1	73														9 340	12 500	100	99.5 533	99.5 533	
MESC 20	LWESC 20	0.15								47	-	24.7	58														7 580					
MESC 20...SL	LWESC 20...SL											24.5															7 570	7 340	78.9	31.5 235	31.5 235	
MES 20	LWES 20	0.25	2.28	28	6	11	42	32	5	67	32	44.2	78	M5×8	5.5	20	16	6	9.5	8.5	20	60	M5×16				11 600	13 400	145	95.6 561	95.6 561	
-	LWES 20...Q				5							44															10 500					
MESG 20	LWESG 20	0.33			6					83	45	60.1	94														14 400	18 300	197	172 918	172 918	
MESC 20...SL	LWESG 20...SL											59.9																				

Notes (1) : Track rail lengths *L* are shown in Table 2.1 and 2.2 on page II-45.
 (2) : Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 or equivalent are recommended.
 (3) : The directions of basic dynamic load rating (*C*), basic static load rating (*C₀*) and static moment rating (*T₀*, *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.
 (4) : For grease nipple specifications, see Table 15 on page II-51.
 Remark : Values in parentheses are applicable to the track rail of supplemental code "/M4" of special specification.



Example of identification number of assembled set

Model code	Size	Part code	Model code	Material	Preload amount	Class symbol	Interchangeable code	Supplemental code
MES	G	15	C2	R340	T1	P	S1	/U
1	2	3	4	5	6	7	8	9

1 Series MES Block type, mounting from top LWES LWES...Q	3 Size 15, 20	7 Preload amount T0 Clearance No symbol Standard T1 Light preload T2 Medium preload	9 Interchangeable code S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification
2 Length of slide unit C Short No symbol Standard G High rigidity long	5 Length of track rail (340mm)	8 Accuracy class No symbol Ordinary H High P Precision SP Super precision	10 Special specification A, BS, D, E, F, I, J, L, LF, MA, M4 N, Q, RE, T, U, V, W, Y, Z

