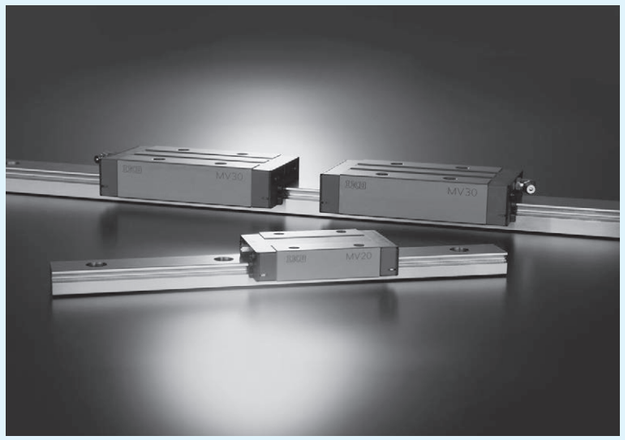
IKO

C-Lube Linear Way ME
Linear Way E



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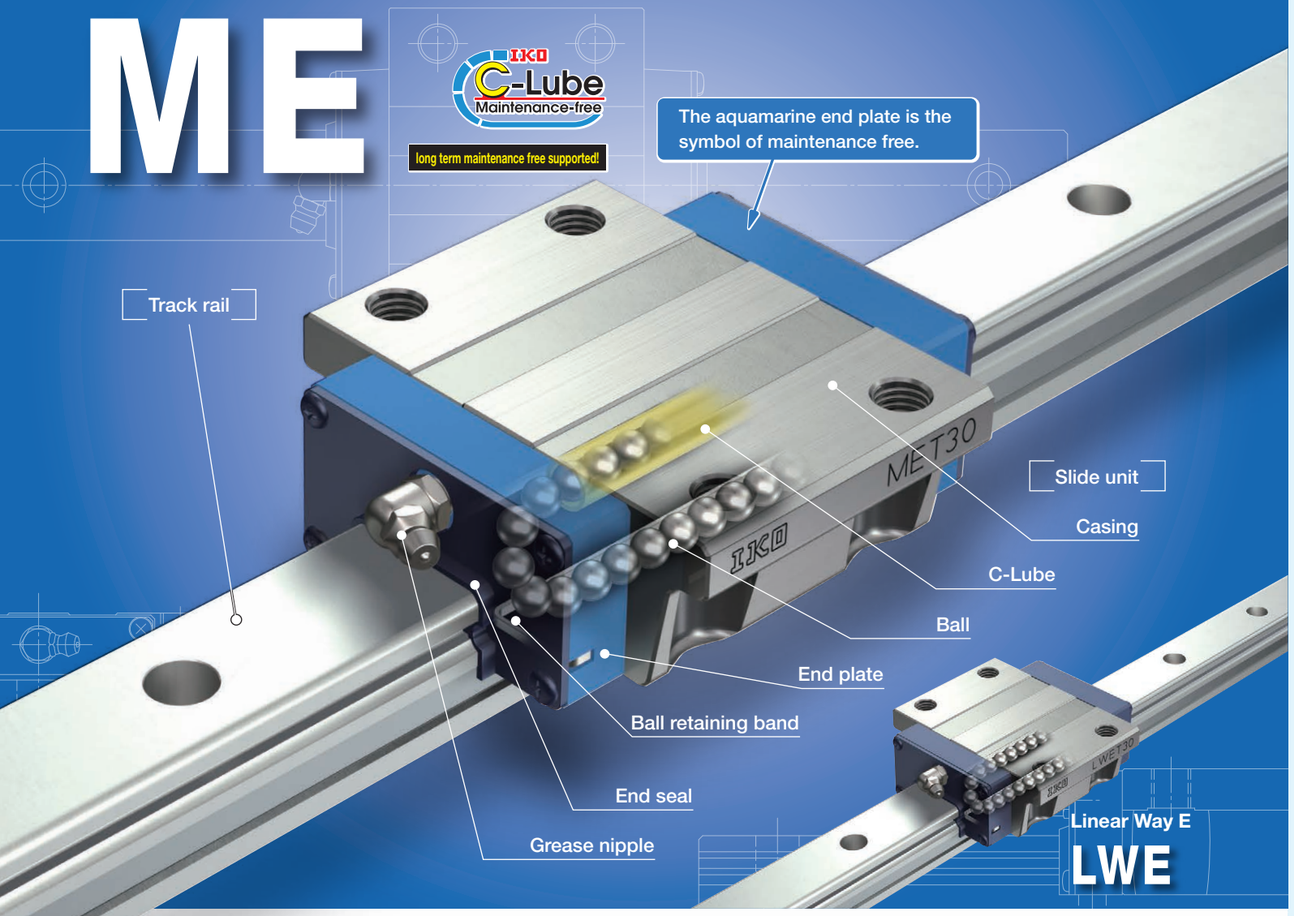
ALMOTION

C-Lube Linear Way ME

ME

IKO C-Lube Maintenance-free

long term maintenance free supported!



Points

Compact and versatile series with utility

1 Versatile linear motion rolling guide that has achieved utility pursuing compactness in every aspect.

Wide range of variations for your needs

For details P.I-26

2 As two shapes of slide unit, flange type and block type (with small width) and 3 types with different slide unit length with same section are available, you can select an optimal product for the specifications of your machine and device.

Stainless steel selections superior in corrosion resistance are listed on lineup.

For details P.I-41

3 Products made of stainless steel are highly resistant to corrosion, so that they are suitable for applications where rust prevention oil is not preferred, such as in cleanroom environment.

Achieved smooth and quiet motion Low Decibel Linear Way E

4 Due to resin separator built-in balls, Low Decibel Linear Way E achieved smooth and quiet motion by eliminating of direct contact of balls each other. This feature reduces noise level in factory and contributes to a human-friendly environment.

Identification Number and Specification

Example of an identification number

The specifications of ME and LWE (···Q) series are indicated by the identification number. Indicate the identification number, consisting of a model code, dimensions, a part code, a material code, a preload symbol, a classification symbol, an interchangeable code, and any supplemental codes for each specification to apply.

	1	2	3	4	5	1	6	7	8	9	10
Non-interchangeable specification											
Assembled set	ME	C	20	C1	R1000			T_1	P		/FU
Interchangeable specification											
Single slide unit	ME	C	20	C1				T_1	P	S1	/U
Single track rail (1)	LWE		20		R1000				P	S1	/F
Assembled set	ME	C	20	C1	R1000			T_1	P	S1	/FU

1 **Model** — Model code Page Ⅱ－65

2 **Length of slide unit** — Model code Page Ⅱ－65

3 **Size** — Dimensions Page Ⅱ－65

4 **Number of slide units** — Part code Page Ⅱ－65

5 **Length of track rail** — Part code Page Ⅱ－65

6 **Material type** — Material code Page Ⅱ－65

7 **Preload amount** — Preload symbol Page Ⅱ－68

8 **Accuracy class** — Classification symbol Page Ⅱ－68

9 **Interchangeable** — Interchangeable code Page Ⅱ－69

10 **Special specification** — Supplemental code Page Ⅱ－69

Note (1) Indicate "LWE" for the model code of the single track rail regardless of the series and the combination of slide unit model.

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

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Identification Number and Specification —Model · Length of Slide Unit · Size ·

1 Model

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 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

For applicable models and sizes, see Table 1.
Indicate "LWE" for the model code of single track rail regardless of the series and the slide unit model to be combined.

Note (1) This model has no built-in C-Lube.

2 Length of slide unit

Short	: C	For applicable models and sizes, see Table 1.
Standard	: No symbol	
Long	: G	

3 Size

15,20,25,30,35,45 — For applicable models and sizes, see Table 1.

4 Number of slide units

: C○ — For an assembled set, indicates the number of slide units assembled on a track rail. For a single slide unit, only "C1" is specified.

5 Length of track rail

: R○ — Indicate the length of track rail in mm. For standard and maximum lengths, see Tables 2.1 and 2.2.

6 Material type

High carbon steel made	: No symbol	For applicable models and sizes, see Table 1.
Stainless steel made (2)	: SL	

Note (2) Mount a standard grease nipple (brass) on the stainless steel type, too.
Stainless steel grease nipple is also available. If needed, please contact IKO.

Number of Slide Unit · Length of Track Rail · Material—

IKO

Table 1 Models and sizes of ME and LWE (···Q) series

Material	Shape	Slide unit Length	Model	Size 15	20	25	30	35	45
High carbon steel made	Flange type mounting from bottom	Short	MEC	○	○	○	○	○	–
			LWEC	○	○	○	○	○	–
		Standard	ME	○	○	○	○	○	○
			LWE	○	○	○	○	○	○
			LWE···Q	○	○	○	○	○	–
		Long	MEG	○	○	○	○	–	–
			LWEG	○	○	○	○	–	–
	Flange type mounting from top	Short	METC	○	○	○	○	○	–
			LWETC	○	○	○	○	○	–
		Standard	MET	○	○	○	○	○	○
			LWET	○	○	○	○	○	○
			LWET···Q	○	○	○	○	○	–
		Long	METG	○	○	○	○	–	–
			LWETG	○	○	○	○	–	–
	Block type mounting from top	Short	MESC	○	○	○	○	○	–
			LWESC	○	○	○	○	○	–
		Standard	MES	○	○	○	○	○	○
			LWES	○	○	○	○	○	○
			LWES···Q	○	○	○	○	○	–
		Long	MESG	○	○	○	○	–	–
			LWESG	○	○	○	○	–	–
Stainless steel made	Flange type mounting from bottom	Short	MEC···SL	○	○	○	○	–	–
			LWEC···SL	○	○	○	○	–	–
		Standard	ME···SL	○	○	○	○	–	–
			LWE···SL	○	○	○	○	–	–
		Long	MEG···SL	○	○	○	○	–	–
			LWEG···SL	○	○	○	○	–	–
	Flange type mounting from top	Short	METC···SL	○	○	○	○	–	–
			LWETC···SL	○	○	○	○	–	–
		Standard	MET···SL	○	○	○	○	–	–
			LWET···SL	○	○	○	○	–	–
		Long	METG···SL	○	○	○	○	–	–
			LWETG···SL	○	○	○	○	–	–
	Block type mounting from top	Short	MESC···SL	○	○	○	○	–	–
			LWESC···SL	○	○	○	○	–	–
		Standard	MES···SL	○	○	○	○	–	–
			LWES···SL	○	○	○	○	–	–
		Long	MESG···SL	○	○	○	○	–	–
			LWESG···SL	○	○	○	○	–	–

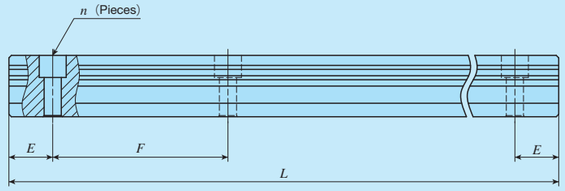
Remark: For the models indicated in ▭, the interchangeable specification is available.

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1mm=0.03937inch

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



unit: mm

Item \ Identification 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)	570 (6) 885 (9) 1 200 (12) 1 620 (16) 2 040 (20) 2 460 (24) 2 985 (29)
Pitch of mounting holes F	60	60	60	80	80	105
E (1)	20	20	20	20	20	22.5
Standard E dimensions (2) or higher	6	8	9	9	10	12
Standard E dimensions (2) below	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)

Notes (1) When specifying a butt-jointing 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) Length up to the value in ( ) can be produced. If needed, please contact IKO. The values in ( ) is not applicable to LWE···Q series.
Remarks 1. A typical identification number is indicated, but is applied to all models of the same size.
2. Indicate "LWE" for the model code of single track rail regardless of the series and the slide unit model to be combined.
3. If not directed, E dimensions for both ends will be the same within the range of standard E dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification. For more information, see page Ⅲ—30.

Table 2.2 Standard and maximum lengths of stainless steel track rails unit: mm

Item \ Identification 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)	280 (4) 440 (6) 600 (8) 760 (10) 1 000 (13)
Pitch of mounting holes F	60	60	60	80
E (1)	20	20	20	20
Standard E dimensions (2) or higher	6	8	9	9
Standard E dimensions (2) below	36	38	39	49
Maximum length (3)	1 200 (1 600)	1 200 (1 960)	1 200 (1 960)	1 200 (1 960)

Notes (1) When specifying a butt-jointing 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) Length up to the value in ( ) can be produced. If needed, please contact IKO.
Remarks 1. A typical identification number is indicated, but is applied to all models of the same size.
2. Indicate "LWE" for the model code of single track rail regardless of the series and the slide unit model to be combined.
3. If not directed, E dimensions for both ends will be the same within the range of standard E dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification. For more information, see page Ⅲ—30.

7 Preload amount

Clearance	: Tc	Specify this item for an assembled set or a single slide unit.
Standard	: No symbol	For details of the preload amount, see Table 3.
Light preload	: T1	For applicable combinations of accuracy class and preload amount, see Table 4.
Medium preload	: T2	

8 Accuracy class

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

Table 3 Preload amount

Preload type \ Item	Preload symbol	Preload amount N	Operational conditions
Clearance	Tc	0 (1)	· Very light motion · To absorb slight errors
Standard	(No symbol)	0 (2)	· Light and precise motion
Light preload	T1	0.02C_0	· Almost no vibrations · Load is evenly balanced · Light and precise motion
Medium preload	T2	0.05C_0	· Medium vibration · Medium overhung load

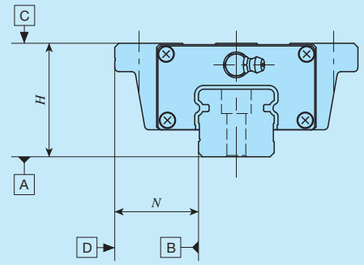
Notes (1) Clearance of about 10 μm
(2) Indicates zero or minimal amount of preload
Remark: C_0 indicates the basic static load rating.

Table 4 Combination of accuracy class and preload

Preload type (preload symbol) \ Classification (classification symbol)	Ordinary (No symbol)	High (H)	Precision (P)	Super precision (SP)
Clearance (Tc) (1)	○	–	–	–
Standard (no symbol)	○	○	○	○
Light preload (T1)	–	○	○	○
Medium preload (T2) (1)	–	○	○	○

Note (1) Not applicable to LWE···Q series.
Remark: The mark ▭ indicates that interchangeable specification products are available.

Table 5 Tolerance and allowance



unit: mm

Item \ Class (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 the slide unit C surface to A surface	See Fig. 1.			
Parallelism in operation of the slide unit D surface to B surface	See Fig. 1.			

Notes (1) It means the size variation between slide units mounted on the same track rail.
(2) Applicable to the interchangeable specification.

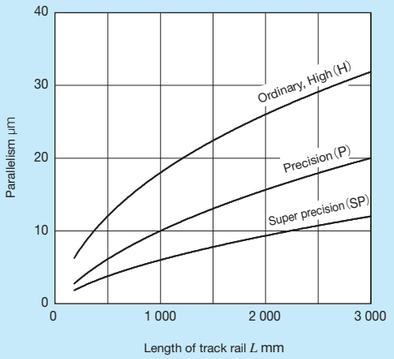


Fig. 1 Parallelism in operation

ME • LWE

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

9 Interchangeable

S1 specification	: S1	This is specified for the interchangeable specifications. Assemble a track rail and a slide unit with the same interchangeable code. When using in combination with different interchangeable codes, please contact IKO. Note that the combination of interchangeable codes will not have any effect on accuracy. For applicable models and sizes, see Table 1. "No symbol" is indicated for non-interchangeable specification.
S2 specification	: S2	
Non-interchangeable specification	: No symbol	

10 Special specification

/A, /BS, /D, /E, /F, /I, /J○, /L○, /LF○, /MA, /M4, /N, /Q, /RE, /T, /U, /V○, /W○, /Y○, /Z○

For applicable special specifications, see Tables 6.1, 6.2, 6.3, and 6.4.
For combination of multiple special specifications, see Table 7.
For details of special specifications, see page Ⅲ−29.

Table 6.1 Application of special specifications (Interchangeable specification, single slide unit)

Special specification	Supplemental code	Size					
		15	20	25	30	35	45
Female threads for bellows (1)	/J○	○	○	○	○	○	○
No end seal	/N	○	○	○	○	○	○
With C-Lube plate (2)	/Q	○	○	○	○	○	○
Special environment seal (2)	/RE	○	○	○	○	×	×
Under seal	/U	○	○	○	○	○	○
Double end seals	/V○	○	○	○	○	○	○
Scrapers	/Z○	○	○	○	○	○	○

Notes (1) Not applicable to stainless steel made products.
(2) Applicable to LWE series.

Table 6.2 Application of special specifications (Interchangeable specification, single track rail)

Special specification	Supplemental code	Size					
		15	20	25	30	35	45
Specified rail mounting hole positions	/E	○	○	○	○	○	○
Caps for rail mounting holes	/F	○	○	○	○	○	○
Female threads for bellows (1)	/J	○	○	○	○	○	○
Black chrome surface treatment	/LR	○	○	○	○	○	○
With track rail mounting bolt	/MA	○	○	○	○	○	○
Changed size of mounting holes	/M4	○	×	×	×	×	×
Butt-jointing track rails	/T	○	○	○	○	○	○

Note (1) Not applicable to stainless steel made products.

Table 6.3 Application of special specifications (Interchangeable specification, assembled set)

Special specification	Supplemental code	Size					
		15	20	25	30	35	45
Stainless steel end plate (1)	/BS	○	○	○	○	×	×
Opposite reference surfaces arrangement	/D	○	○	○	○	○	○
Specified rail mounting hole positions	/E	○	○	○	○	○	○
Caps for rail mounting holes	/F	○	○	○	○	○	○
Female threads for bellows (2)	/J○	○	○	○	○	○	○
Black chrome surface treatment	/L○	○	○	○	○	○	○
Fluorine black chrome surface treatment	/LF○	○	○	○	○	○	○
With track rail mounting bolt	/MA	○	○	○	○	○	○
Changed size of mounting holes	/M4	○	×	×	×	×	×
No end seal	/N	○	○	○	○	○	○
With C-Lube plate (1)	/Q	○	○	○	○	○	○
Special environment seal (1)	/RE	○	○	○	○	×	×
Butt-jointing track rails	/T	○	○	○	○	○	○
Under seal	/U	○	○	○	○	○	○
Double end seals	/V○	○	○	○	○	○	○
Specified grease (3)	/Y○	○	○	○	○	○	○
Scrapers	/Z○	○	○	○	○	○	○

Notes (1) Applicable to LWE series.
(2) Not applicable to stainless steel made products.
(3) ME series is applicable only to /YCG.

Table 6.4 Application of special specifications (Non-interchangeable specification)

Special specification	Supplemental code	Size					
		15	20	25	30	35	45
Butt-jointing track rails (1)	/A	○	○	○	○	○	○
Stainless steel end plate (2)	/BS	○	○	○	○	×	×
Opposite reference surfaces arrangement	/D	○	○	○	○	○	○
Specified rail mounting hole positions	/E	○	○	○	○	○	○
Caps for rail mounting holes	/F	○	○	○	○	○	○
Inspection sheet	/I	○	○	○	○	○	○
Female threads for bellows	/J○	○	○	○	○	○	○
Black chrome surface treatment	/L○	○	○	○	○	○	○
Fluorine black chrome surface treatment	/LF○	○	○	○	○	○	○
With track rail mounting bolt	/MA	○	○	○	○	○	○
Changed size of mounting holes	/M4	○	×	×	×	×	×
No end seal (1)	/N	○	○	○	○	○	○
With C-Lube plate (3)	/Q	○	○	○	○	○	○
Special environment seal (2)	/RE	○	○	○	○	×	×
Under seal (1)	/U	○	○	○	○	○	○
Double end seals	/V○	○	○	○	○	○	○
A group of multiple assembled sets	/W○	○	○	○	○	○	○
Specified grease (4)	/Y○	○	○	○	○	○	○
Scrapers	/Z○	○	○	○	○	○	○

Notes (1) Not applicable to LWE···Q series.
(2) Applicable to LWE series.
(3) Applicable to LWE (···Q) series.
(4) ME series is applicable only to /YCG.

Table 7 Combination of supplemental codes

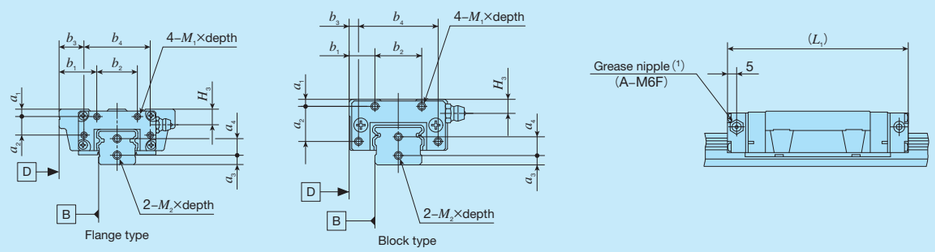
	A	BS	D	E	F	I	J	L	LF	MA	M4	N	Q	RE	T	U	V	W	Y
BS	○																		
D	○	○																	
E	–	○	–																
F	○	○	○	○															
I	○	○	○	○	○														
J	○	○	○	○	○	○													
L	○	○	○	○	○	○	○												
LF	○	○	○	○	○	○	○	–											
MA	○	○	○	○	○	○	○	○	○										
M4	○	○	○	○	○	○	○	○	○	○(1)									
N	○	○	○	○	–	○	–	○	○	○	○								
Q	○	○	○	○	○	○	–	○	○	○	○	○							
RE	○	○	○	○	○	○	○	○	○	○	○	–	○						
T	–	○	○	○	○	–	–	○	○	○	○	○	○	○					
U	○	○	○	○	○	○	○	○	○	○	○	–	○	○	○				
V	○	○	○	○	○	○	●	○	○	○	○	–	–	○	○	○			
W	○	○	○	–	○	○	○	○	○	○	○	○	○	○	–	○	○		
Y	○	○	○	○	○	○	○	○	○	○	○	○	–	○	○	○	○	○	
Z	○	○	○	○	○	○	●	○	○	○	○	–	–	○	○	○	●	○	○

Note (1) When combining "/MA" and "/M4", indicate "/MA4".
Remarks 1. The combination of "—" shown in the table is not available.
2. Contact IKO for the combination of the interchangeable specification marked with ●.
3. When using multiple types for combination, please indicate by arranging the symbols in alphabetical order.

ME • LWE

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

Table 8 Dimension of female threads for bellows (Supplemental code Single unit: /J Assembled set: /J /JJ)



unit: mm

Identification number			Slide unit								Track Rail		
			a_1	a_2	b_1	b_2	b_3	b_4	M_1×depth	L_1 (2)	H_3	a_3	a_4	M_2×depth
ME(T)C 15	LWE(T)C 15	–	3	12	18	16	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	–			9		3			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	20	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	–			11		4			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	26	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	–			11		4			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	20	50	M3×6	83	11	6	14	M4× 8
ME(T) 30	LWE(T) 30	–								112				
–	–	LWE(T)30···Q		20	25	40				111	10			
ME(T)G 30	LWE(T)G 30	–		17	28	34				144	11			
MESC 30	LWESC 30	–		17	13	34	5			83	11			
MES 30	LWES 30	–								112				
–	–	LWES 30···Q		20	10	40				111	10			
MESG 30	LWESG 30	–		17	13	34				144	11			
ME(T)C 35	LWE(T)C 35	–	6	20	30	40	20	60	M3×6	93	13	7	15	M4× 8
ME(T) 35	LWE(T) 35	–								126				
–	–	LWE(T)35···Q								125	11			
MESC 35	LWESC 35	–			15		5			93	13			
MES 35	LWES 35	–								126				
–	–	LWES 35···Q								125	11			
ME(T) 45	LWE(T) 45	–	7	26	35	50	23	74	M4×8	138	15	8	19	M5×10
MES 45	LWES 45	–			18		6							

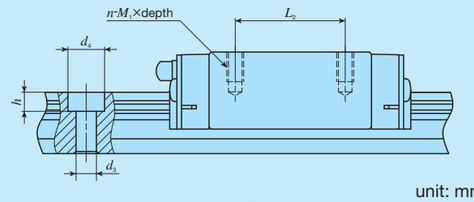
Notes (1) The specification and mounting positions of grease nipple are different from those of the standard specification product. Provided grease nipple for size 15 models is NPB2 type (special specification).
For details of dimensions, please contact IKO.
(2) Dimensions of the specification that female threads for bellows are fitted to both ends of the slide unit are indicated.
Remark: This is also applicable to stainless steel 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. Hexagon socket head bolts equivalent to JIS B 1176
2. For stainless steel model, stainless steel made bolts are appended.

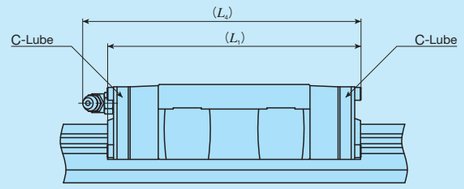
Table 10 Changed dimensions of mounting holes (Supplemental code /M4)



unit: mm

Size	d_3	d_4	h
15	4.5	8	6

Table 11 Dimension of slide unit with C-Lube plate (Supplemental code /Q)

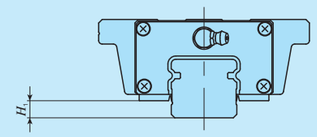


unit: mm

Identification number		L_1	L_4
LWEC 15	–	52	55
LWE 15	–	68	71
–	LWE15···Q		70
LWEG 15	–	81	83
LWEC 20	–	58	70
LWE 20	LWE20···Q	78	90
LWEG 20	–	94	105
LWEC 25	–	70	82
LWE 25	LWE25···Q	94	106
LWEG 25	–	113	125
LWEC 30	–	80	91
LWE 30	LWE30···Q	109	119
LWEG 30	–	141	151
LWEC 35	–	90	102
LWE 35	–	123	135
–	LWE35···Q	124	
LWE 45	–	138	148

Remarks 1. The dimensions of the slide unit with C-Lube at both ends are indicated.
2. A typical identification number is indicated, but is applied to all LWE (···Q) series models of the same size.

Table 12 H_1 dimension with under seal (Supplemental code /U)



unit: mm

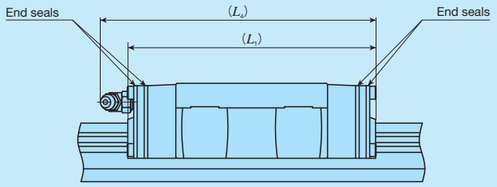
Identification number		H_1
ME 15	LWE 15	5
ME 20	LWE 20	5
ME 25	LWE 25	6
ME 30		9
	LWE 30	7
	LWEC 30	8.5
ME 35		10
	LWE 35	8
	LWEC 35	9.5
ME 45		13
	LWE 45	14

Remarks 1. A typical identification number is indicated, but is applied to all models of the same size.
2. LWE 30 and LWE 35 have different H_1 dimensions only when the slide unit length is short.

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

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Table 13 Dimension of slide unit with double end seals (Supplemental code Single unit: /V Assembled set: /V /VV)

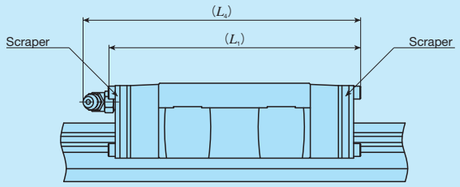


unit: mm

Identification number			L_1	L_4
MEC 15	LWEC 15	–	48	50
ME 15	LWE 15	LWE15···Q	64	66
MEG 15	LWEG 15	–	76	78
MEC 20	LWEC 20	–	54	68
ME 20	LWE 20	LWE20···Q	73	87
MEG 20	LWEG 20	–	89	103
MEC 25	LWEC 25	–	67	80
ME 25	LWE 25	LWE25···Q	91	104
MEG 25	LWEG 25	–	110	123
MEC 30	LWEC 30	–	78	89
ME 30	LWE 30	LWE30···Q	107	118
MEG 30	LWEG 30	–	138	150
MEC 35	LWEC 35	–	88	101
ME 35	LWE 35	LWE35···Q	121	134
ME 45	LWE 45	–	137	148

Remarks 1. The dimensions of the slide unit with double end seals at both ends are indicated.
2. A typical identification number is indicated, but is applied to all models of the same size.

Table 14 Dimension of slide unit with scrapers (Supplemental code Single unit: /Z Assembled set: /Z /ZZ)



unit: mm

Identification number			L_1	L_4
MEC 15	LWEC 15	–	48	50
ME 15	LWE 15	LWE15···Q	64	66
MEG 15	LWEG 15	–	77	79
MEC 20	LWEC 20	–	55	69
ME 20	LWE 20	LWE20···Q	75	88
MEG 20	LWEG 20	–	91	104
MEC 25	LWEC 25	–	69	81
ME 25	LWE 25	LWE25···Q	93	105
MEG 25	LWEG 25	–	112	124
MEC 30	LWEC 30	–	79	90
ME 30	LWE 30	–	108	119
–	–	LWE30···Q	109	
MEG 30	LWEG 30	–	140	151
MEC 35	LWEC 35	–	89	101
ME 35	LWE 35	–	122	134
–	–	LWE35···Q	123	135
ME 45	LWE 45	–	138	148

Remarks 1. The dimensions of the slide unit with scraper at both ends are indicated.
2. A typical identification number is indicated, but is applied to all models of the same size.

Lubrication

Lithium-soap base grease with extreme-pressure additive (Alvania EP grease 2 [Shell Lubricants Japan K.K.]) is pre-packed in ME and LWE (···Q) series. Additionally, ME series has C-Lube placed in the recirculation part of balls, so that the interval for reapplicating lubricant can be extended and maintenance works such as grease job can be reduced significantly.
ME and LWE (···Q) series have grease nipple as indicated in Table 15. Supply nozzles fit to each shapes of grease nipple are also available. For order of these parts for lubrication, see Table 14.1 on page Ⅲ—23 and Table 15 on page Ⅲ—24.

Dust Protection

The slide units of ME and LWE (···Q) series are equipped with end seals as standard for dust protection. However, if large amount of contaminant or dust are floating, or if large particles of foreign substances such as chips or sand may adhere to the track rail, it is recommended to cover the whole unit with bellows or telescope type shield, etc.
ME series and LWE (···Q) series are provided with specific bellows. The bellows are easy to mount and provide excellent dust protection. If needed, please refer to Ⅲ—26 for ordering.

Table 15 Parts for lubrication

Size	Grease nipple type (1)	Applicable supply nozzle type	Bolt 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) For grease nipple specification, see Tables 14.1 and 14.2 on page Ⅲ—23.
Remark: Stainless steel grease nipple is also available. If needed, please contact IKO.

Precaution for Use

❶ Mounting surface, reference mounting surface, and typical mounting structure

When mounting the ME and LWE (···Q) series, properly align the reference mounting surface B and D of the track rail and slide unit with the reference mounting surface of the table and bed and fix them. (See Fig. 2)
The reference mounting surfaces B and D and mounting surfaces A and C are precisely ground. Machining the mounting surface of the table and bed, such as machine or device, to high accuracy and mounting them properly will ensure stable linear motion with high accuracy.
Reference mounting surface of the slide unit is the opposite side of the IKO mark. The track rail reference mounting surface is identified by locating the IKO mark on the top surface of the track rail. It is the side surface above the mark (in the direction of the arrow). (See Fig. 3.)

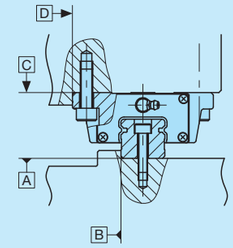


Fig. 2 Reference mounting surface and typical mounting structure

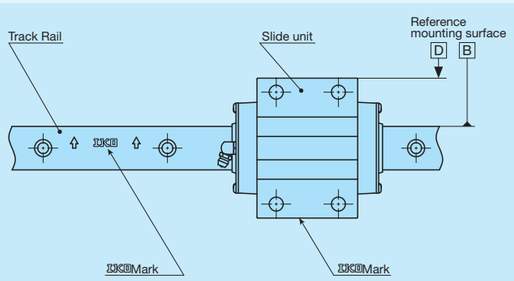


Fig. 3 Reference mounting surface

❷ Shoulder height and corner radius of the reference mounting surface

For the opposite corner of the mating reference mounting, it is recommended to have relieved fillet as indicated in Fig. 4. Recommended value for the shoulder height on the mating side is indicated in Table 17.

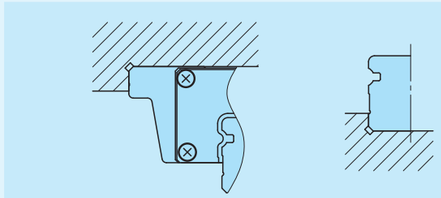


Fig. 4 Corner of the mating reference mounting

❸ Tightening torque for fixing screw

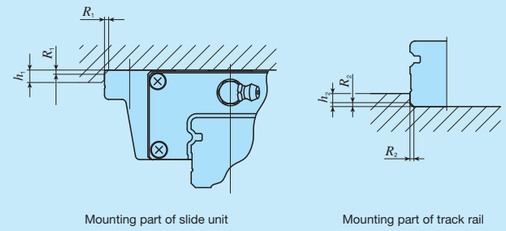
Typical tightening torque for mounting of the ME and LWE (···Q) series to the steel mating member material is indicated in Table 16. When vibration and shock of the machine or device are large, fluctuating load is large, or moment load is applied, fix it by using the torque 1.2 to 1.5 times larger than the value indicated in the table as necessary. If the mating member material is cast iron or aluminum alloy, reduce the tightening torque depending on the strength characteristics of the mating member material.

Table 16 Tightening torque for fixing screw

Bolt size	Tightening torque N·m	
	High carbon steel-made screw	Stainless steel-made screw
M 3×0.5	1.8	1.1
M 4×0.7	4.1	2.5
M 5×0.8	8.0	5.0
M 6×1	13.6	8.5
M 8×1.25	32.7	20.4
M10×1.5	63.9	–
M12×1.75	110	–

Remark: The tightening torque is calculated based on strength division 12.9 and property division A2-70.

Table 17 Shoulder height and corner radius of the reference mounting surface



unit: mm

Size	Mounting part of slide unit		Mounting part of track rail	
	Shoulder height h_1	Corner radius R_1 (maximum)	Shoulder height h_2	Corner radius R_2 (maximum)
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) The values in ( ) are applied to MES and LWES (···Q).

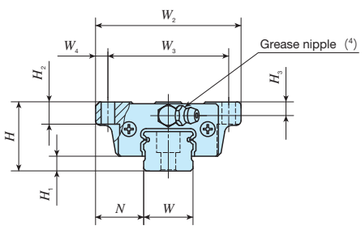
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

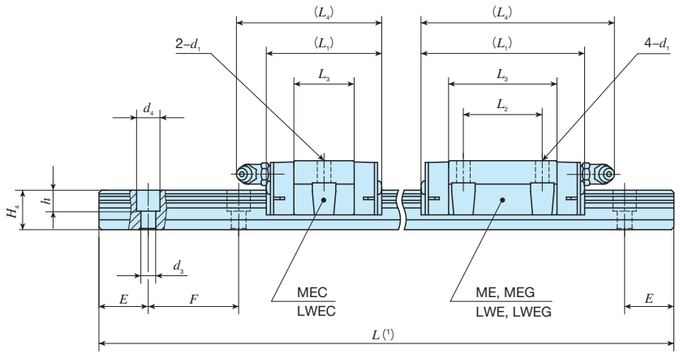
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IKO C-Lube Linear Way ME

Flange type mounting from bottom

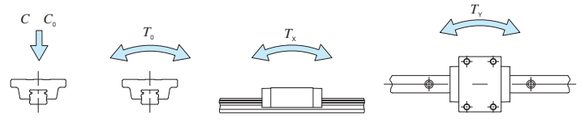
Shape	ME · LWE
Size	15 · 20 · 25 · 30 · 35 · 45





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm										Dimensions of track rail mm							Recommended mounting bolt for track rail (2) mm	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
ME series	LWE series (No C-Lube)		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	Bolt size × ℓ	C N	C_0 N	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 / 149	21.3 / 149
MEC 15···SL	LWEC 15···SL	○																												
ME 15	LWE 15	○	0.18								57	26	38.4	61													7 640	9 390	75.1	57.6 / 333	57.6 / 333
ME 15···SL	LWE 15···SL	○																												
–	LWE 15···Q	–				5							38.3														6 550	8 610	68.9	53.0 / 307	53.0 / 307
MEG 15	LWEG 15	○	0.24			5.8					70	36	51.1	73													9 340	12 500	100	99.5 / 533	99.5 / 533
MEG 15···SL	LWEG 15···SL	○																												
MEC 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 / 235	31.5 / 235
	LWEC 20	○											24.5														7 570				
MEC 20···SL		○											24.7														7 580				
	LWEC 20···SL	○											24.5														7 570				
ME 20		○	0.30					67	32		44.2	78														11 600	13 400	145	95.6 / 566	95.6 / 566
	LWE 20	○									44																			
ME 20···SL		○									44.2																			
	LWE 20···SL	○									44																			
–	LWE 20···Q	–				5																					10 500			100 / 562	100 / 562
MEG 20		○	0.40			6		83	45		60.1	94														14 400	18 300	197	172 / 930	172 / 930
	LWEG 20	○									59.9																			
MEG 20···SL		○									60.1																			
	LWEG 20···SL	○									59.9																			

Notes (1) Track rail lengths L are shown in Tables 2.1 and 2.2 on page Ⅱ−67.
(2) Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 are recommended.
(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.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−73.
Remark: The value in ( ) represents dimensions when the track rail mounting hole dimension is set for M4 holes. Indicate the identification number with /M4 at the end.



Example of identification number of assembled set

Model code	Dimensions	Part code		Model code	Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
ME	G	15	C2	R340			T1	P		/U
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨	⑩

① Model

ME	Flange type mounting from bottom
LWE	
LWE···Q	

② Length of slide unit

C	Short
No symbol	Standard
G	Long

③ Size: 15, 20

④ Number of slide unit (2)

⑤ Length of track rail (340 mm)

⑥ Material type

No symbol	High carbon steel made
SL	Stainless steel made

⑦ Preload amount

T_C	Clearance
No symbol	Standard
T_1	Light preload
T_2	Medium preload

⑥ Accuracy class

No symbol	Ordinary
H	High
P	Precision
SP	Super precision

⑨ Interchangeable

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

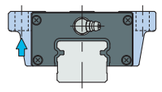
⑩ Special specification: A, BS, D, E, F, Ⅰ, J, L, LF, MA M4, N, Q, RE, T, U, V, W, Y, Z

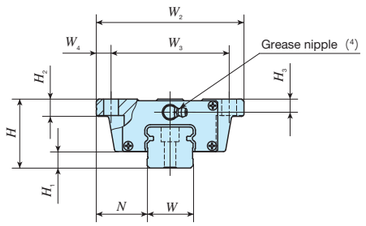
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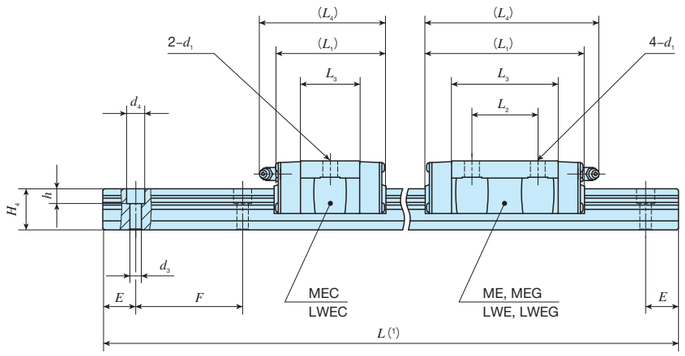
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

IKO C-Lube Linear Way ME

Flange type mounting from bottom

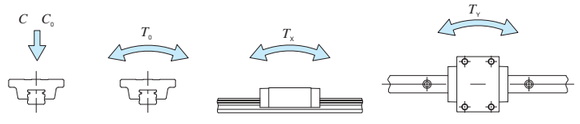
Shape	ME · LWE		
			
Size	15	20	25
	30	35	45





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm										Dimensions of track rail mm							Recommended mounting bolt for track rail (2) mm	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
ME series	LWE series (No C-Lube)		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	Bolt size× ℓ	C N	C_0 N	T_0 N · m	T_X N · m	T_Y N · m
MEC 25	LWEC 25	○	0.33	3.09	33	7	25	73	60	6.5	59	–	32	70	7		10	6.5	23	19	7	11	9	20	60	M 6×20	12 400	12 300	153	71.8 / 480	71.8 / 480
MEC 25···SL	LWEC 25···SL	○																													
ME 25	LWE 25	○	0.56								83	35	56	94													18 100	21 100	262	195 / 1 090	195 / 1 090
ME 25···SL	LWE 25···SL	○																													
–	LWE 25···Q	–				6																					15 500	19 400	240	175 / 1 010	175 / 1 010
MEG 25	LWEG 25	○	0.73			7					102	50	75	113													22 200	28 200	349	336 / 1 740	336 / 1 740
MEG 25···SL	LWEG 25···SL	○																													
MEC 30	LWEC 30	○	0.58	5.09	42	10	31	90	72	9	68	–	36	78	9		10	8	28	25	7	11	9	20	80	M 6×25	20 600	18 800	287	129 / 855	129 / 855
MEC 30···SL	LWEC 30···SL	○																													
ME 30	LWE 30	○	0.99								97	40	64.8	107													29 500	31 300	479	328 / 1 920	328 / 1 920
ME 30···SL	LWE 30···SL	○																													
–	LWE 30···Q	–	0.97	5.04							96			106													21 600	26 400	398	278 / 1 580	278 / 1 580
MEG 30	LWEG 30	○	1.50	5.09							129	60	96.5	139													39 200	47 000	718	704 / 3 690	704 / 3 690
MEG 30···SL	LWEG 30···SL	○																													
MEC 35	LWEC 35	○	0.84	6.85	48	11	33	100	82	9	78	–	41.6	90	9		13	10	34	28	9	14	12	20	80	M 8×30	29 900	26 800	412	176 / 1 190	162 / 1 100
ME 35	LWE 35	○	1.52								111	50	74.6	123													42 900	44 700	686	448 / 2 660	412 / 2 450
–	LWE 35···Q	–	1.53	6.84							110		76.6	122													30 500	37 600	687	482 / 2 550	482 / 2 550
ME 45	LWE 45	○	2.46	11.2	60	14	37.5	120	100	10	125	60	81.4	136	11		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 Tables 2.1 and 2.2 on page Ⅱ−67.
(2) Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 are recommended.
(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.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−73.



Example of identification number of assembled set

Model code	Dimensions	Part code	Model code	Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
ME	G	30	C2	R440			T1	P		/U
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨	⑩

① Model

ME	Flange type mounting from bottom
LWE	
LWE···Q	

② Length of slide unit

C	Short
No symbol	Standard
G	Long

③ Size: 25, 30, 35, 45

④ Number of slide unit (2)

⑤ Length of track rail (440 mm)

⑥ Material type

No symbol	High carbon steel made
SL	Stainless steel made

⑦ Preload amount

T_C	Clearance
No symbol	Standard
T_1	Light preload
T_2	Medium preload

⑥ Accuracy class

No symbol	Ordinary
H	High
P	Precision
SP	Super precision

⑨ Interchangeable

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

⑩ Special specification: A, BS, D, E, F, I, J, L, LF, MA N, Q, RE, T, U, V, W, Y, Z

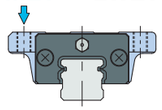
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1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

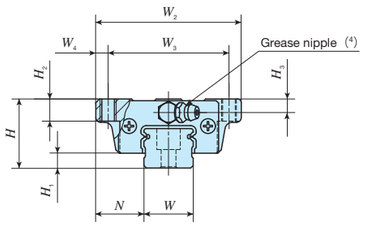
IKO C-Lube Linear Way ME

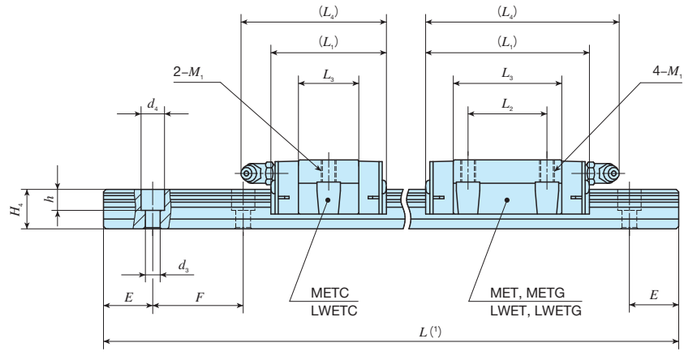
Flange type mounting from top

Shape: MET · LWET



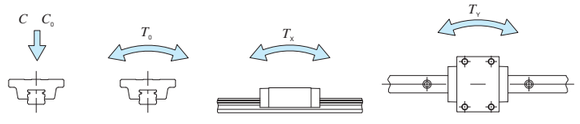
Size			
15	20	25	
30	35	45	





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm									Dimensions of track rail mm							Recommended mounting bolt for track rail (2) mm	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
ME series	LWE series (No C-Lube)		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	Bolt size× ℓ	C N	C_0 N	T_0 N·m	T_X N·m	T_Y N·m
METC 15	LWETC 15	○	0.11	1.57	24	5.8	18.5	52	41	5.5	41	–	22.4	45	M5		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 / 149	21.3 / 149
METC 15···SL	LWETC 15···SL	○																												
MET 15	LWET 15	○	0.18								57	26	38.4	61													7 640	9 390	75.1	57.6 / 333	57.6 / 333
MET 15···SL	LWET 15···SL	○																												
–	LWET 15···Q	–				5							38.3														6 550	8 610	68.9	53.0 / 307	53.0 / 307
METG 15	LWETG 15	○	0.24			5.8					70	36	51.1	73													9 340	12 500	100	99.5 / 533	99.5 / 533
METG 15···SL	LWETG 15···SL	○																												
METC 20		○	0.18	2.28	28	6	19.5	59	49	5	47	–	24.7	58	M6		9	5.5	20	16	6	9.5	8.5	20	60	M5×16	7 580	7 340	78.9	31.5 / 235	31.5 / 235
	LWETC 20	○											24.5														7 570				
METC 20···SL		○											24.7														7 580				
	LWETC 20···SL	○											24.5														7 570				
MET 20		○	0.30								67	32	44.2	78													11 600	13 400	145	95.6 / 566	95.6 / 566
	LWET 20	○											44																		
MET 20···SL		○											44.2																		
	LWET 20···SL	○											44																		
–	LWET 20···Q	–				5																					10 500			100 / 562	100 / 562
METG 20		○	0.40			6					83	45	60.1	94													14 400	18 300	197	172 / 930	172 / 930
	LWETG 20	○											59.9																		
METG 20···SL		○											60.1																		
	LWETG 20···SL	○											59.9																		

Notes (1) Track rail lengths L are shown in Tables 2.1 and 2.2 on page Ⅱ−67.
(2) Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 are recommended.
(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.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−73.
Remark: The value in ( ) represents dimensions when the track rail mounting hole dimension is set for M4 holes. Indicate the identification number with /M4 at the end.



Example of identification number of assembled set

Model code		Dimensions	Part code		Model code	Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MET	G	15	C2	R340			T1	P		/U
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨	⑩

① Model

MET	Flange type mounting from top
LWET	
LWET···Q	

② Length of slide unit

C	Short
No symbol	Standard
G	Long

③ Size: 15, 20

④ Number of slide unit (2)

⑤ Length of track rail (340 mm)

⑥ Material type

No symbol	High carbon steel made
SL	Stainless steel made

⑦ Preload amount

T_C	Clearance
No symbol	Standard
T_1	Light preload
T_2	Medium preload

⑧ Accuracy class

No symbol	Ordinary
H	High
P	Precision
SP	Super precision

⑨ Interchangeable

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

⑩ Special specification: A, BS, D, E, F, Ⅰ, J, L, LF, MA M4, N, Q, RE, T, U, V, W, Y, Z

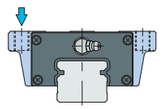
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1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

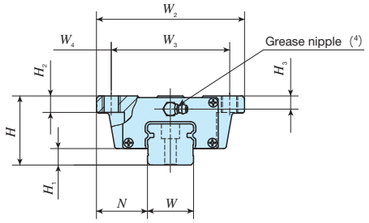
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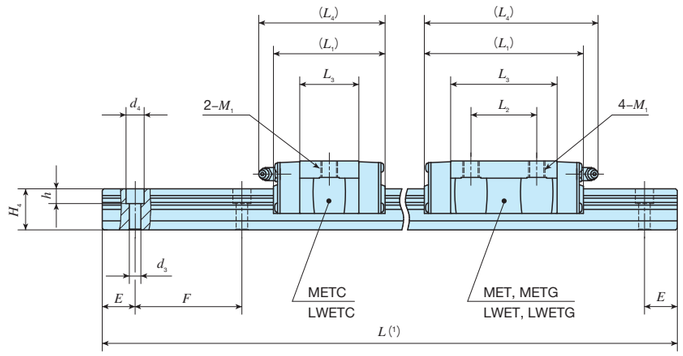
Flange type mounting from top

Shape: **MET · LWET**



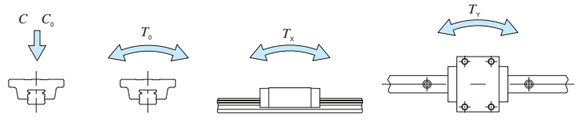
Size			
15	20	25	
30	35	45	





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm										Dimensions of track rail mm							Recommended mounting bolt for track rail (2) mm	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
ME series	LWE series (No C-Lube)		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	Bolt size× ℓ	C N	C_0 N	T_0 N·m	T_X N·m	T_Y N·m
METC 25	LWETC 25	○	0.33	3.09	33	7	25	73	60	6.5	59	–	32	70	M 8		10	6.5	23	19	7	11	9	20	60	M 6×20	12 400	12 300	153	71.8 480	71.8 480
METC 25···SL	LWETC 25···SL	○																													
MET 25	LWET 25	○	0.56								83	35	56	94													18 100	21 100	262	195 1 090	195 1 090
MET 25···SL	LWET 25···SL	○																													
–	LWET 25···Q	–				6																					15 500	19 400	240	175 1 010	175 1 010
METG 25	LWETG 25	○	0.73			7					102	50	75	113													22 200	28 200	349	336 1 740	336 1 740
METG 25···SL	LWETG 25···SL	○																													
METC 30	LWETC 30	○	0.58	5.09	42	10	31	90	72	9	68	–	36	78	M10		10	8	28	25	7	11	9	20	80	M 6×25	20 600	18 800	287	129 855	129 855
METC 30···SL	LWETC 30···SL	○																													
MET 30	LWET 30	○	0.99								97	40	64.8	107													29 500	31 300	479	328 1 920	328 1 920
MET 30···SL	LWET 30···SL	○																													
–	LWET 30···Q	–	0.97	5.04							96			106													21 600	26 400	398	278 1 580	278 1 580
METG 30	LWETG 30	○	1.50	5.09							129	60	96.5	139													39 200	47 000	718	704 3 690	704 3 690
METG 30···SL	LWETG 30···SL	○																													
METC 35	LWETC 35	○	0.84	6.85	48	11	33	100	82	9	78	–	41.6	90	M10		13	10	34	28	9	14	12	20	80	M 8×30	29 900	26 800	412	176 1 190	162 1 100
MET 35	LWET 35	○	1.52								111	50	74.6	123													42 900	44 700	686	448 2 660	412 2 450
–	LWET 35···Q	–	1.53	6.84							110		76.6	122													30 500	37 600	687	482 2 550	482 2 550
MET 45	LWET 45	○	2.46	11.2	60	14	37.5	120	100	10	125	60	81.4	136	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 Tables 2.1 and 2.2 on page Ⅱ−67.
(2) Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 are recommended.
(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.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−73.



Example of identification number of assembled set

Model code	Dimensions	Part code	Model code	Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MET	G	30	C2	R440			T1	P		/U
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨	⑩

① Model

MET	Flange type mounting from top
LWET	
LWET···Q	

② Length of slide unit

C	Short
No symbol	Standard
G	Long

③ Size: 25, 30, 35, 45

④ Number of slide unit (2)

⑤ Length of track rail (440 mm)

⑥ Material type

No symbol	High carbon steel made
SL	Stainless steel made

⑦ Preload amount

T_C	Clearance
No symbol	Standard
T_1	Light preload
T_2	Medium preload

⑧ Accuracy class

No symbol	Ordinary
H	High
P	Precision
SP	Super precision

⑨ Interchangeable

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

⑩ Special specification: A, BS, D, E, F, I , J, L, LF, MA N, Q, RE, T, U, V, W, Y, Z

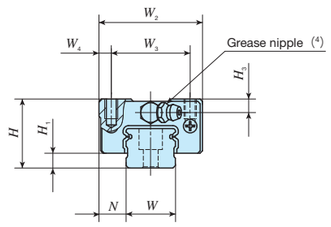
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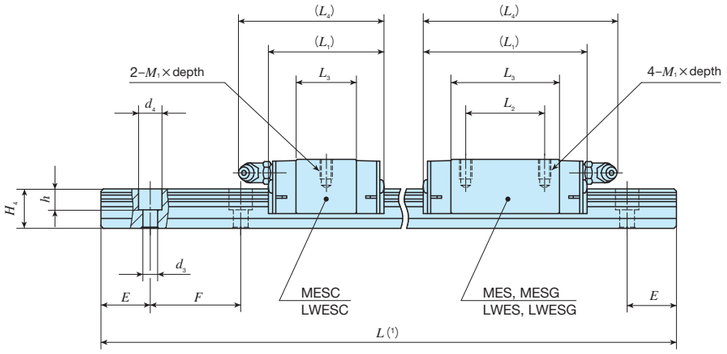
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1mm=0.03937inch

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Block type mounting from top

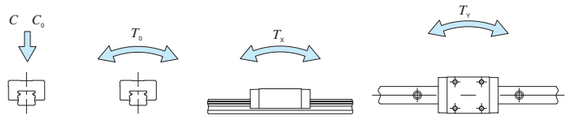
Shape	MES · LWES		
Size	15	20	25
	30	35	45





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm									Dimensions of track rail mm							Recommended mounting bolt for track rail (2) mm	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
ME series	LWE series (No C-Lube)		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	Bolt size× ℓ	C N	C_0 N	T_0 N·m	T_X N·m	T_Y N·m
MESC 15	LWESC 15	○	0.09	1.57	24	5.8	9.5	34	26	4	41	–	22.4	45	M4×7	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	21.3 149	21.3 149
MESC 15···SL	LWESC 15···SL	○																										
MES 15	LWES 15	○	0.14								57	26	38.4	61											7 640	9 390	75.1	57.6 333	57.6 333
MES 15···SL	LWES 15···SL	○																										
–	LWES 15···Q	–				5							38.3												6 550	8 610	68.9	53.0 307	53.0 307
MESG 15	LWESG 15	○	0.18			5.8					70	36	51.1	73											9 340	12 500	100	99.5 533	99.5 533
MESG 15···SL	LWESG 15···SL	○																										
MESC 20		○	0.15	2.28	28	6	11	42	32	5	47	–	24.7	58	M5×8	5.5	20	16	6	9.5	8.5	20	60	M5×16	7 580	7 340	78.9	31.5 235	31.5 235
	LWESC 20	○											24.5												7 570				
MESC 20···SL		○											24.7												7 580				
	LWESC 20···SL	○											24.5												7 570				
MES 20		○	0.25								67	32	44.2	78											11 600	13 400	145	95.6 566	95.6 566
	LWES 20	○											44																
MES 20···SL		○											44.2																
	LWES 20···SL	○											44																
–	LWES 20···Q	–				5																			10 500			100 562	100 562
MESG 20		○	0.33			6					83	45	60.1	94											14 400	18 300	197	172 930	172 930
	LWESG 20	○											59.9																
MESG 20···SL		○											60.1																
	LWESG 20···SL	○											59.9																

Notes (1) Track rail lengths L are shown in Tables 2.1 and 2.2 on page Ⅱ−67.
(2) Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 are recommended.
(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.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−73.
Remark: The value in ( ) represents dimensions when the track rail mounting hole dimension is set for M4 holes. Indicate the identification number with /M4 at the end.



Example of identification number of assembled set

Model code	Dimensions	Part code	Model code	Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MES	G	15	C2	R340			T1	P		/U
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨	⑩

① Model

MES	Block type mounting from top
LWES	
LWES···Q	

② Length of slide unit

C	Short
No symbol	Standard
G	Long

③ Size: 15, 20

④ Number of slide unit (2)

⑤ Length of track rail (340 mm)

⑥ Material type

No symbol	High carbon steel made
SL	Stainless steel made

⑦ Preload amount

T_C	Clearance
No symbol	Standard
T_1	Light preload
T_2	Medium preload

⑧ Accuracy class

No symbol	Ordinary
H	High
P	Precision
SP	Super precision

⑨ Interchangeable

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

⑩ Special specification: A, BS, D, E, F, Ⅰ, J, L, LF, MA M4, N, Q, RE, T, U, V, W, Y, Z

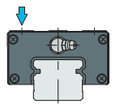
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www.almotion.nl | www.lineairegeleiding.nl | www.lineairegeleidingshop.nl | www.linearmotion.nl

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

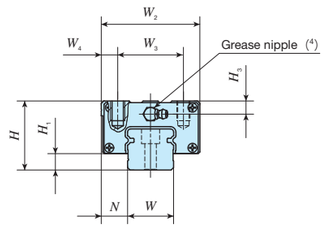
IKO C-Lube Linear Way ME

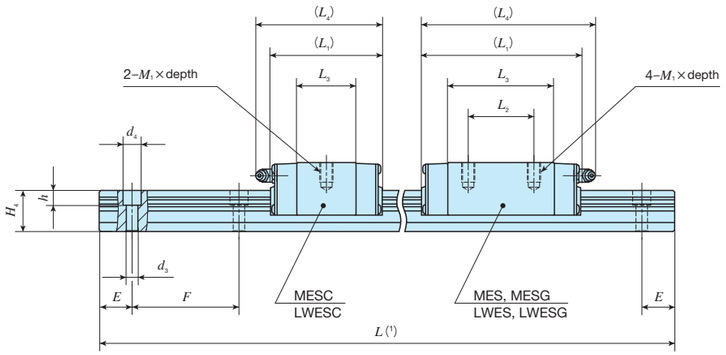
Block type mounting from top

Shape: **MES · LWES**



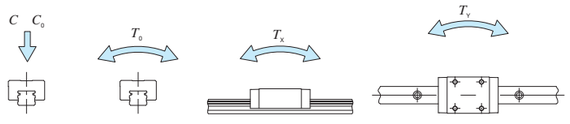
Size			
15	20	25	
30	35	45	





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm								Dimensions of track rail mm							Recommended mounting bolt for track rail (2) mm	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
ME series	LWE series (No C-Lube)		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	Bolt size× ℓ	C N	C_0 N	T_0 N·m	T_X N·m	T_Y N·m
MESC 25	LWESC 25	○	0.26	3.09	33	7	12.5	48	35	6.5	59	–	32	70	M 6×9	6.5	23	19	7	11	9	20	60	M 6×20	12 400	12 300	153	71.8 480	71.8 480
MESC 25···SL	LWESC 25···SL	○																											
MES 25	LWES 25	○	0.43								83	35	56	94											18 100	21 100	262	195 1 090	195 1 090
MES 25···SL	LWES 25···SL	○																											
–	LWES 25···Q	–				6																			15 500	19 400	240	175 1 010	175 1 010
MESG 25	LWESG 25	○	0.55			7					102	50	75	113											22 200	28 200	349	336 1 740	336 1 740
MESG 25···SL	LWESG 25···SL	○																											
MESC 30	LWESC 30	○	0.46	5.09	42	10	16	60	40	10	68	–	36	78	M 8×12	8	28	25	7	11	9	20	80	M 6×25	20 600	18 800	287	129 855	129 855
MESC 30···SL	LWESC 30···SL	○																											
MES 30	LWES 30	○	0.78								97	40	64.8	107											29 500	31 300	479	328 1 920	328 1920
MES 30···SL	LWES 30···SL	○																											
–	LWES 30···Q	–	0.75	5.04							96			106											21 600	26 400	398	278 1 580	278 1 580
MESG 30	LWESG 30	○	1.13	5.09							129	60	96.5	139											39 200	47 000	718	704 3 690	704 3 690
MESG 30···SL	LWESG 30···SL	○																											
MESC 35	LWESC 35	○	0.67	6.85	48	11	18	70	50	10	78	–	41.6	90	M 8×12	10	34	28	9	14	12	20	80	M 8×30	29 900	26 800	412	176 1 190	162 1 100
MES 35	LWES 35	○	1.21								111	50	74.6	123											42 900	44 700	686	448 2 660	412 2 450
–	LWES 35···Q	–	1.20	6.84							110		76.6	122											30 500	37 600	687	482 2 550	482 2 550
MES 45	LWES 45	○	2.05	11.2	60	14	20.5	86	60	13	125	60	81.4	136	M10×15	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 Tables 2.1 and 2.2 on page Ⅱ−67.
(2) Track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength division 12.9 are recommended.
(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.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−73.



Example of identification number of assembled set

Model code	Dimensions	Part code	Model code	Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MES	G	30	C2	R440			T1	P		/U
①	②	③	④	⑤	①	⑥	⑦	⑧	⑨	⑩

① Model

MES	Block type mounting from top
LWES	
LWES···Q	

② Length of slide unit

C	Short
No symbol	Standard
G	Long

③ Size: 25, 30, 35, 45

④ Number of slide unit (2)

⑤ Length of track rail (440 mm)

⑥ Material type

No symbol	High carbon steel made
SL	Stainless steel made

⑦ Preload amount

T_C	Clearance
No symbol	Standard
T_1	Light preload
T_2	Medium preload

⑧ Accuracy class

No symbol	Ordinary
H	High
P	Precision
SP	Super precision

⑨ Interchangeable

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

⑩ Special specification: A, BS, D, E, F, Ⅰ, J, L, LF, MA, N, Q, RE, T, U, V, W, Y, Z

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