C-Lube Linear Way ML

ML

C-Lube Maintenance-free

long term maintenance free supported!



Linear Way L

LWL

Points

Extremely small size realized by simple structure

For details P.I-19

1 Super small-size linear motion rolling guide produced by two-row four-point contact simple structure and original small sizing technology. The track rail width of LWL1, the smallest size, is only 1mm.

Wide range of variations for your needs

For details P.I-25

2 The slide unit shape can be selected from two types, the standard type and the wide type suited for single-row track rail uses, and there are four types with different lengths of slide unit with same section. Furthermore, the track rail has the variation of standard type and tapped rail type with the screw thread implanted, allowing you to select an optimal product for the specifications of your machine and device.

Ball retained type for easy operation

3 The slide unit of ball retained type incorporates the ball retaining band, which prevents the ball from dropping down when the slide unit is removed from the track rail. This safety structure brings you an easy operation to the machines / equipment.

Stainless steel selections for excellent corrosion resistance

For details P.I-41

4 Stainless steel highly corrosion-resistant is used as the basic specification, so that the products are suitable for applications where rust prevention oil is not preferred, such as in cleanroom environment. High carbon steel products suited to general purposes are also provided.

Widely supports special environment uses

For details P.I-33

5 C-Lube Linear Way ML for special environment uses are provided as a series. Increasingly varied special environment uses are supported, such as by high-speed / low-noise specifications by combining silicon nitride ceramics and low dust-generation specifications.

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Identification Number and Specification

Example of an identification number

The specifications of ML(F) and LWL(F) 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	4	5	6	3	7	8	9	10	11
Non-interchangeable specification											
Assembled set	ML	C	12	C1	R200			T_1	P		/U
Interchangeable specification											
Single slide unit	ML	C	12	C1				T_1	P	S1	/U
Single track rail (1)	LWL		12		R200	B			P	S1	
Assembled set	ML	C	12	C1	R200			T_1	P	S1	/U

1 Model
2 Length of slide unit
3 Structure
→ Model code Page Ⅱ－7

4 Size
→ Dimensions Page Ⅱ－7

5 Number of slide units
6 Length of track rail
→ Part code Page Ⅱ－7

7 Material type
→ Material code Page Ⅱ－7

8 Preload amount
→ Preload symbol Page Ⅱ－13

9 Accuracy class
→ Classification symbol Page Ⅱ－14

10 Interchangeable
→ Interchangeable code Page Ⅱ－15

11 Special specification
→ Supplemental code Page Ⅱ－15

Note (1) Indicate "LWL…B" or "LWLF…B" for the model code of the single track rail regardless of the series and the combination of slide unit models.

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

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

1 Model

C-Lube Linear Way ML (ML(F) series)
Standard type : ML
Wide type : MLF

Linear way L (1) (LWL (F) series)
Standard type : LWL
Wide type : LWLF

For applicable models and sizes, see Table 2.1 and Table 2.2.
Indicate "LWL···B" or "LWLF···B" for the model code of the single track rail regardless of the series and the combination of slide unit models.

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

2 Length of slide unit

Short : C
Standard : No symbol
Long : G
Extra long : L

For applicable models and sizes, see Table 2.1 and Table 2.2.

3 Structure

Table 1.1 Structure of ML and LWL

Model	Types and sizes of track rails			Structure	
ML	Standard rail specification		Size: 5~25	Ball retained type	: No symbol
	Tapped rail specification		Size: 3	Ball non-retained type	: No symbol
			Size: 5, 7, 9	Ball retained type	: N
LWL	Standard rail specification			Ball retained type	: B
	Tapped rail specification	Mounting from bottom	Size: 2, 3	Ball non-retained type	: No symbol
			Size: 5, 7, 9	Ball retained type	: N
		Mounting from lateral	Size: 1	Ball non-retained type	: Y
	Solid rail specification		Size: 1	Ball non-retained type	: No symbol

Table 1.2 Structure of MLF and LWLF

Model	Types of track rails		Structure	
MLF	Standard rail specification	Size: 6	Ball non-retained type	: No symbol
		Size: 10~42	Ball retained type	
	Tapped rail specification	Size: 6	Ball non-retained type	: N
		Size: 10~18	Ball retained type	
LWLF	Standard rail specification	Size: 4, 6	Ball non-retained type	: No symbol
		Size: 10~42	Ball retained type	: B
	Tapped rail specification	Size: 2	Ball non-retained type	: No symbol
		Size: 6	Ball non-retained type	: N
		Size: 10~18	Ball retained type	

For applicable models and sizes, see Table 2.1 and Table 2.2.

4 Size

Standard type 1, 2, 3, 5, 7, 9, 12, 15, 20, 25
Wide type 2, 4, 6, 10, 14, 18, 24, 30, 42

For applicable models and sizes, see Table 2.1 and Table 2.2.

5 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.

6 Length of track rail

: R○

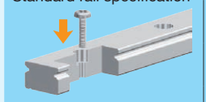
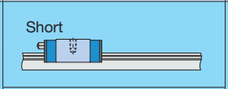
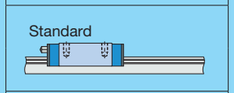
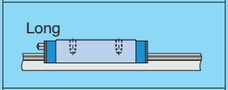
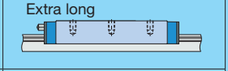
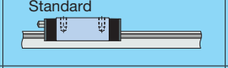
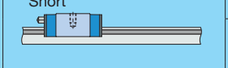
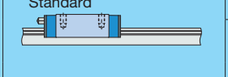
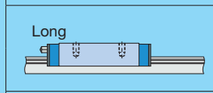
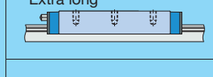
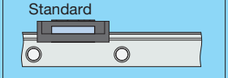
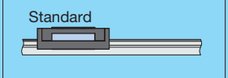
Indicate the length of track rail in mm.
For standard and maximum lengths, see Table 3.1, Table 3.2, and Table 3.3.

7 Material type

Stainless steel made : No symbol
High carbon steel made : CS

For applicable models and sizes, see Table 2.1 and Table 2.2.

Table 2.1 Models and sizes of standard type ML(F) and LWL(F) series

Types of track rails	Material type	Length of slide unit	Structure	Model	Size 1	2	3	5	7	9	12	15	20	25
Standard rail specification 	Stainless steel made	Short 	Ball retained type	MLC	–	–	–	○	○	○	○	○	○	○
				LWLC···B	–	–	–	○	○	○	○	○	○	○
		Standard 		ML	–	–	–	○	○	○	○	○	○	○
				LWL···B	–	–	–	○	○	○	○	○	○	○
		Long 		MLG	–	–	–	–	○	○	○	○	○	○
				LWLG···B	–	–	–	–	○	○	○	○	○	○
		Extra long 		MLL	–	–	–	–	–	○	○	○	–	–
	High carbon steel made	Standard 		LWL···BCS	–	–	–	–	–	○	○	○	○	–
Tapped rail specification Mounting from bottom 	Stainless steel made	Short 	Ball non-retained type	MLC	–	–	○	–	–	–	–	–	–	–
				LWLC	–	–	○	–	–	–	–	–	–	–
			Ball retained type	MLC···N	–	–	–	○	○	○	–	–	–	–
				LWLC···N	–	–	–	○	○	○	–	–	–	–
		Standard 	Ball non-retained type	ML	–	–	○	–	–	–	–	–	–	–
				LWL	–	○	○	–	–	–	–	–	–	–
			Ball retained type	ML···N	–	–	–	○	○	○	–	–	–	–
				LWL···N	–	–	–	○	○	○	–	–	–	–
		Long 	Ball retained type	MLG···N	–	–	–	–	○	○	–	–	–	–
				LWLG···N	–	–	–	–	○	○	–	–	–	–
		Extra long 	Ball retained type	MLL···N	–	–	–	–	–	○	–	–	–	–
Tapped rail specification Mounting from lateral 		Standard 	Ball non-retained type	LWL···Y	○	–	–	–	–	–	–	–	–	–
Solid rail specification 		Standard 	Ball non-retained type	LWL	○	–	–	–	–	–	–	–	–	–

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

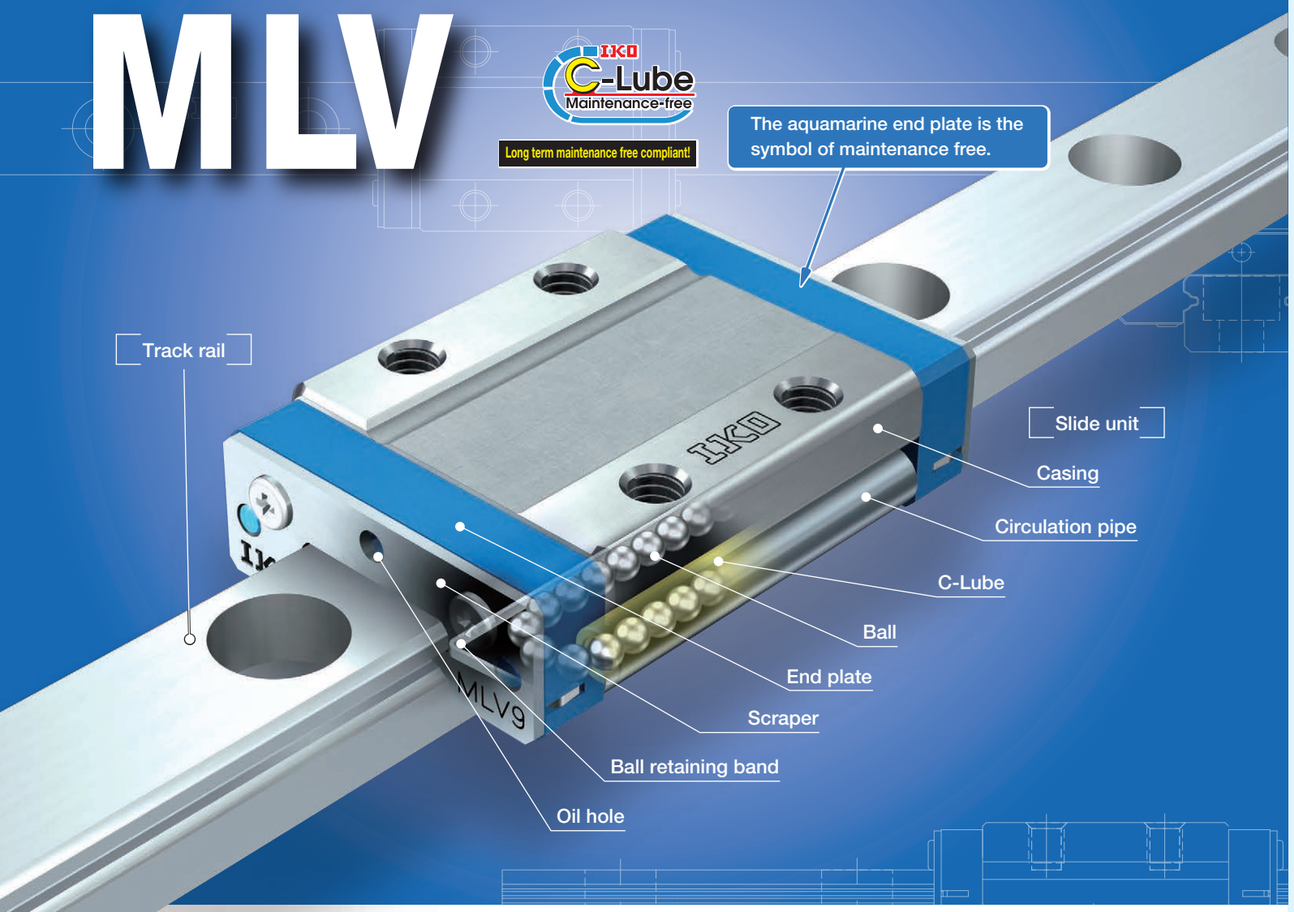
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1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

C-Lube Linear Way MLV

MLV

Long term maintenance free compliant!



Points

1 Extremely small size realized by simple structure

For details P.I-19

Super small-size linear motion rolling guide produced by two-row four-point contact simple structure and original small sizing technology.

2 Long term maintenance free

For details P.I-11

The built-in "C-Lube", the capillary lubricating element, in the ball circulation pipes of the slide unit makes it long term maintenance free.
Lubrication oil is continuously supplied to the surface of rolling elements by surface tension in the contact of the capillary lubricating element surface and rolling elements.

3 Cost performance

Preserving the basic performance of C-Lube Linear Way ML as is, lower cost has been achieved by reviewing the structure including the ball recirculation part.

4 Ball retained type for easy operation

The slide unit incorporates the ball retaining band, which prevents the ball from dropping down when the slide unit is removed from the track rail. This safety structure brings you an easy operation to the machines/equipment.

5 Stainless steel selections for excellent corrosion resistance

For details P.I-41

Stainless steel highly corrosion-resistant is used as the basic specification, so that the products are suitable for applications where rust prevention oil is not preferred, such as in cleanroom environment.

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Identification Number and Specification

Example of an Identification Number

The specifications of the MLV series are indicated by the identification number. Indicate the identification number, consisting of a model code, dimensions, a part code, a classification symbol, and any supplemental codes for each specification to apply.

Non-interchangeable specification	1	2	3	4	5	6
Assembled set	MLV	9	C1	R160	H	/US

1 Model — Model code — Page Ⅱ－43

2 Size — Dimensions — Page Ⅱ－43

3 Number of slide units — Part code — Page Ⅱ－43

4 Length of track rail — Part code — Page Ⅱ－43

5 Accuracy class — Classification symbol — Page Ⅱ－44

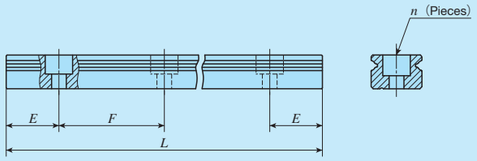
6 Special specification — Supplemental code — Page Ⅱ－44

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

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

1 Model	C-Lube Linear Way MLV (MLV series)	: MLV	
2 Size	7, 9, 12		
3 Number of slide units		: C○	Indicates the number of slide units assembled on a track rail.
4 Length of track rail		: R○	Indicate the length of track rail in mm. For standard and maximum lengths, see Table 1.

Table 1 Standard and maximum lengths of track rail



unit: mm

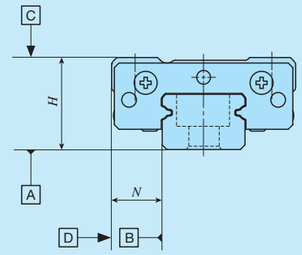
Item \ Identification number	MLV 7	MLV 9	MLV 12
Standard length L (n)	60 (4) 90 (6) 120 (8) 150 (10) 180 (12) 240 (16)	60 (3) 80 (4) 120 (6) 160 (8) 220 (11) 280 (14)	100 (4) 150 (6) 200 (8) 275 (11) 350 (14) 475 (19)
Pitch of mounting holes F	15	20	25
E	7.5	10	12.5
Standard E dimensions or higher	4.5	4.5	5
Standard E dimensions below	12	14.5	17.5
Maximum length	300	860	1 000

Remark: 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.

—Accuracy Class · Special Specification—

5 Accuracy class	High	: H	For details of accuracy class, see Table 2.

Table 2 Tolerance and allowance



Unit: mm

Item \ Class (Classification symbol)	High (H)
Dim. H tolerance	±0.020
Dim. N tolerance	±0.025
Dim. variation of H (1)	0.015
Dim. variation of N (1)	0.020
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.

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

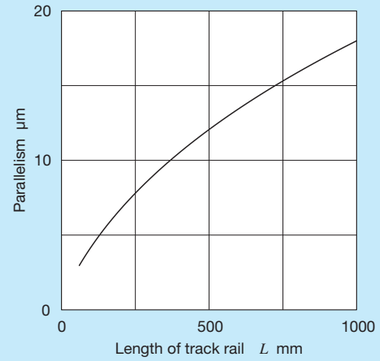


Fig. 1 Parallelism in operation

6 Special specification	/D, /E, /MN, /US, /W○, /YCG		For applicable special specifications, see Table 3. For combination of multiple special specifications, see Table 4. For details of special specifications, see page Ⅲ−29.

Table 3 Application of special specifications

Special specification	Supplemental code	Size		
		7	9	12
Opposite reference surfaces arrangement	/D	○	○	○
Specified rail mounting hole positions	/E	○	○	○
Without track rail mounting bolt	/MN	○	○	○
End seal	/US	○	○	○
A group of multiple assembled sets	/W○	○	○	○
Specified grease (Low Dust-Generation Grease for Clean Environment CG2)	/YCG	○	○	○

Table 4 Combination of supplemental codes

E	–				
MN	○	○			
US	○	○	○		
W	○	–	○	○	
YCG	○	○	○	○	○
	D	E	MN	US	W

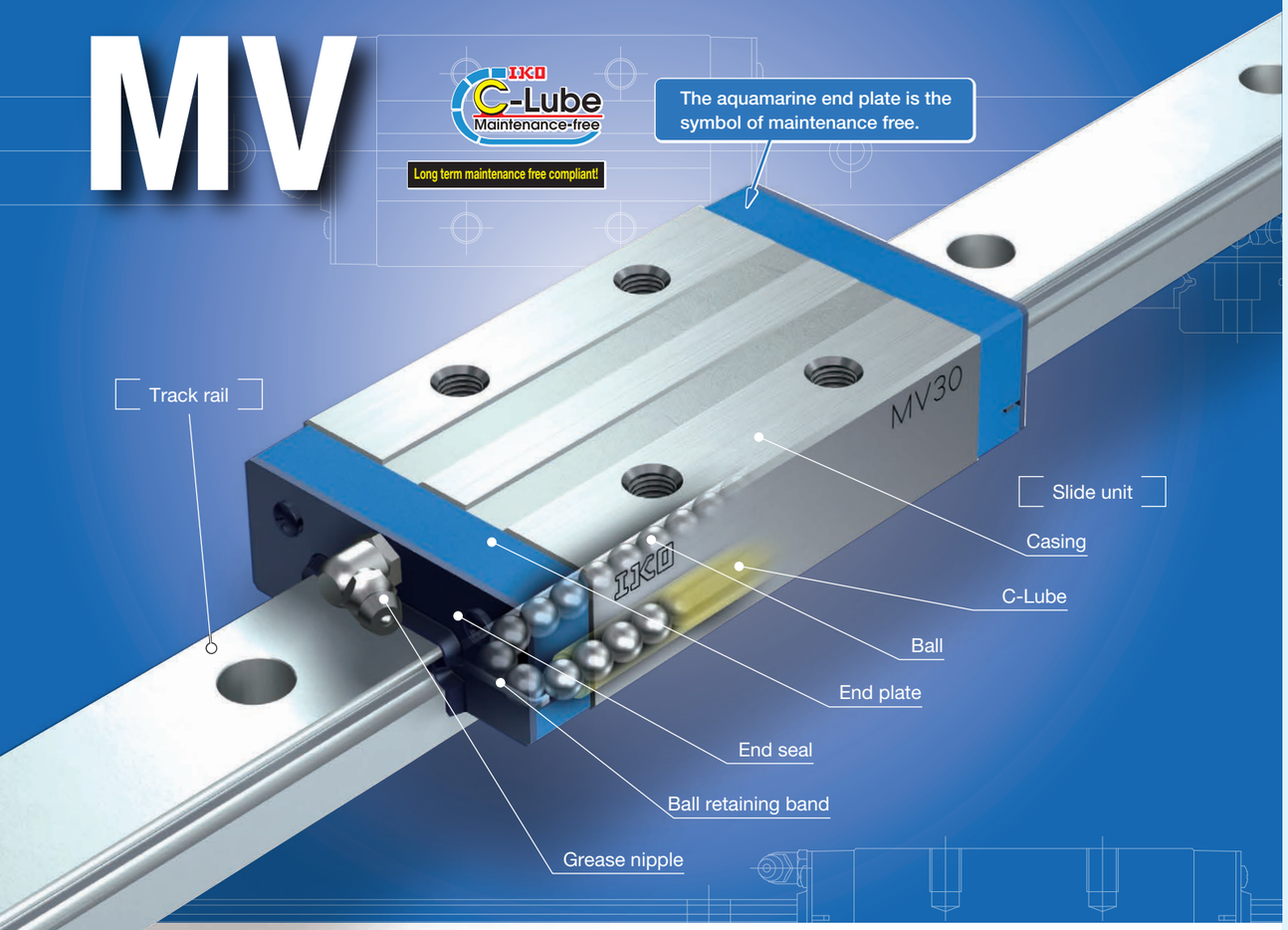
Remarks: 1. The combination of "−" shown in the table is not available.
2. When using multiple types for combination, please indicate by arranging the symbols in alphabetical order.

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

C-Lube Linear Way MV

MV



Points

1 Ultimate ball type linear motion rolling guide pursuing extra low profile and extra light weight

For details P.I-19

A linear motion rolling guide with extra low profile and extra light weight, achieved only because of the simple mechanism of two-row four-point contact structure.

2 High load capacity

Despite its extra low profile and extra light weight, it has the maximum load rating among the ball types and contributes to long life and increases safety of machine or device.

3 Long term maintenance free

For details P.I-11

The built-in "C-Lube", the capillary lubricating element, in the ball circulation paths of the slide unit makes it long term maintenance free.
Lubrication oil is continuously supplied to the surface of rolling elements by surface tension in the contact of the capillary lubricating element surface and rolling elements.

4 Ball retained type for easy operation

The slide unit incorporates the ball retaining band, which prevents the ball from dropping down when the slide unit is removed from the track rail. This safety structure brings you an easy operation to the machines/equipment.

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Designation of Identification Number and Specification

Example of an Identification Number

The specifications of the MV series are indicated by the identification number.
Indicate the identification number, consisting of a model code, dimensions, a part code, a preload symbol, a classification symbol, and any supplemental codes for each specification to apply.

	1	2	3	4	5	6	7
Assembled set	MV	20	C1	R1000	T1	P	/FU

1 **Model** — Model code Page Ⅱ－53

2 **Size** — Dimensions Page Ⅱ－53

3 **Number of slide units** — Part code Page Ⅱ－53

4 **Length of track rail** — Part code Page Ⅱ－53

5 **Preload amount** — Preload symbol Page Ⅱ－53

6 **Accuracy class** — Classification symbol Page Ⅱ－54

7 **Special specification** — Supplemental code Page Ⅱ－55

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

Identification Number and Specification – Model · Size · Number of Slide Unit · Length of Track Rail · Preload amount –

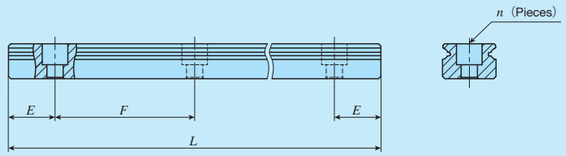
1 Model
C-Lube Linear Way MV : MV
(MV series)

2 Size
20, 25, 30

3 Number of slide units : C○
Indicates the number of slide units assembled on a track rail.

4 Length of track rail : R○
Indicate the length of track rail in mm.
For standard and maximum lengths, see Table 1.

Table 1 Standard and maximum lengths of track rail



unit: mm

Item \ Identification number	MV 20	MV 25	MV 30
Standard length L (n)	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)
Pitch of mounting holes F	60	60	80
E	20	20	20
Standard E dimensions or higher	8	9	9
Standard E dimensions below	38	39	49
Maximum length (1)	2 200 (2 980)	2 980	3 000

Note (1) Length up to the value in ( ) can be produced. If needed, please contact IKO.
Remark: If not directed, E dimensions for both ends will be the same within the range of E reference dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification. For more information, see page Ⅲ−30.

5 Preload amount
Clearance : Tc
Standard : No symbol
Light preload : T1
For details of the preload amount, see Table 2.

Table 2 Preload amount

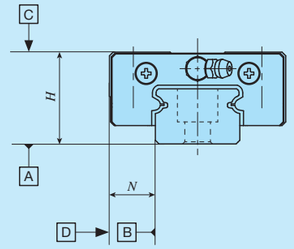
Item / Preload type	Preload symbol	Preload amount N	Operational conditions
Clearance	Tc	0(1)	· Very light motion · To absorb slight errors
Standard	(No symbol)	0(2)	· Light and precise motion
Light preload	T1	0.02C_0	· Almost no vibrations · Load is evenly balanced · Light and precise motion

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

–Accuracy Class–

6 Accuracy class
Ordinary : No symbol
High : H
Precision : P
Super precision : SP
For details of accuracy class, see Table 3.
For applicable combinations of accuracy class and preload amount, see Table 4.

Table 3 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
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.			

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

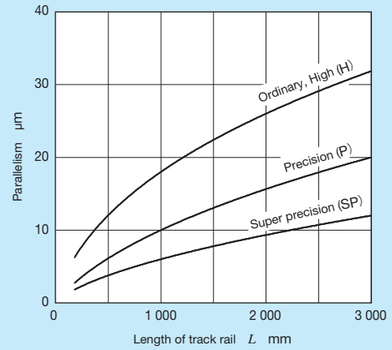


Fig. 1 Parallelism in operation

Table 4 Combination of accuracy class and preload

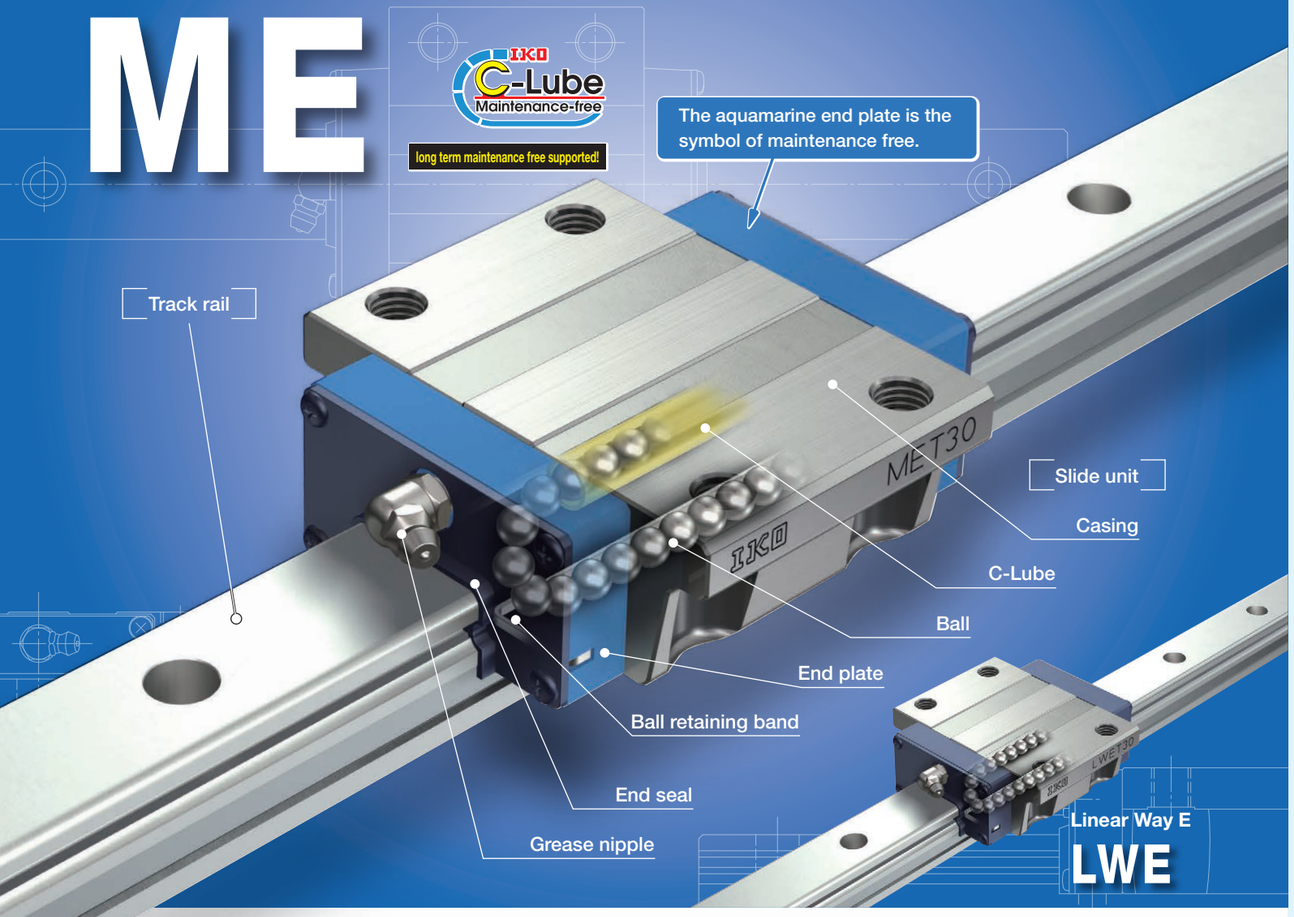
Item (preload symbol) \ Classification (Classification symbol)	Ordinary (No symbol)	High (H)	Precision (P)	Super precision (SP)
Clearance (Tc)	○	–	–	–
Standard (no symbol)	○	○	○	○
Light preload (T1)	–	○	○	○

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

C-Lube Linear Way ME

ME



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.

ALMOTION

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—

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	○	○	○	○	–	–

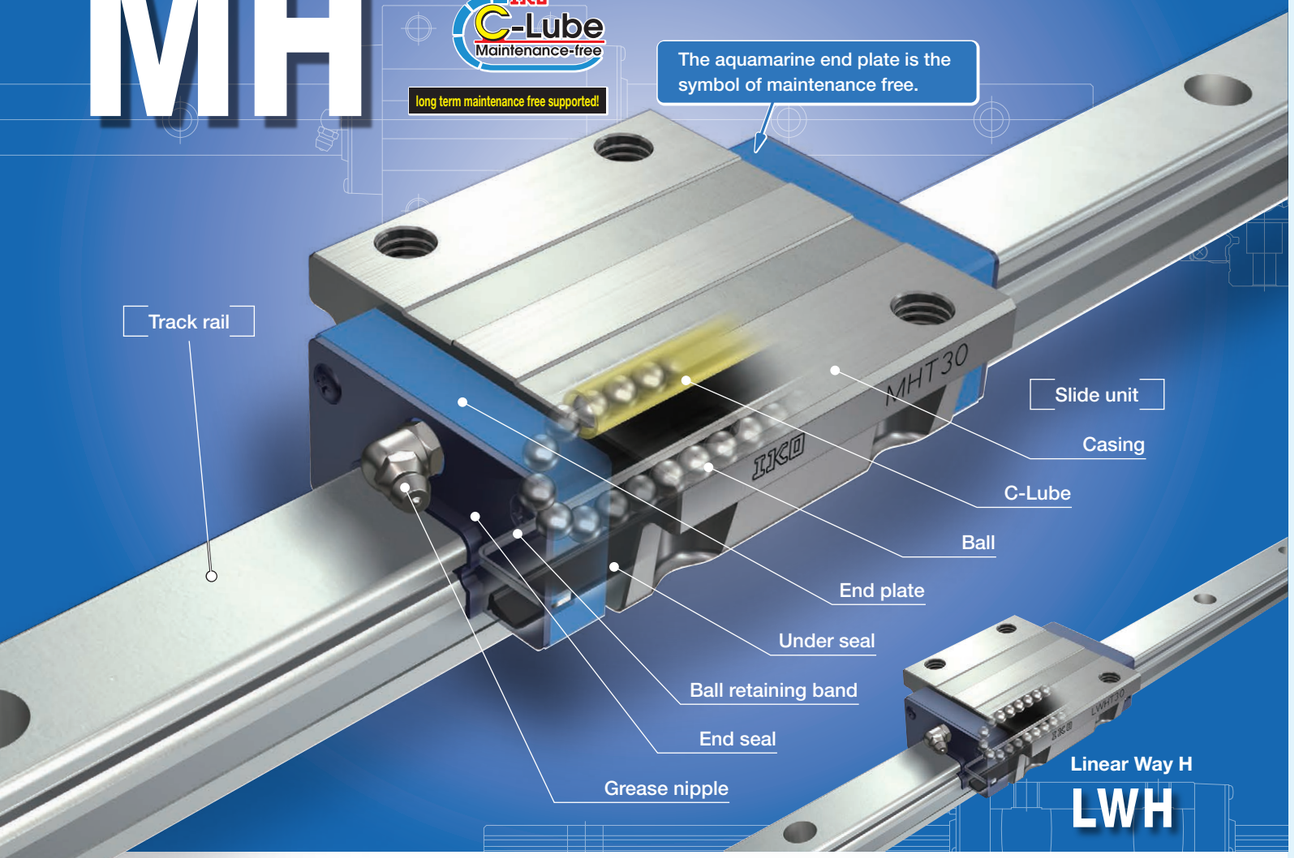
Remark: For the models indicated in ▭, the interchangeable specification is available.

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

C-Lube Linear Way MH

MH



Points

High rigidity series with the largest-class load rating among ball types

1 High rigidity linear motion rolling guides designed to evenly support high load capacity by incorporating large-diameter balls.

Wide range of variations for your needs For details P.I-26

2 As the lineup of 5 types of slide unit shape including the flange type, block type with small width and side mounting type, etc., 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 steels 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.

Series of ultra seal specification for excellent dust protection performance

4 Products of ultra seal specifications have excellent dust protection performance thanks to the combination of the dedicated track rail finished with total ground and slide unit with end seal and under seal of special shapes. Special specification with inner seal further improves dust protection property of the ball circulation section against foreign substances from the upper surface of the track rail.

ALMOTION

Identification Number and Specification

Example of an identification number

The specifications of MH and LWH series are indicated by the identification number. Indicate the identification number, consisting of a model code, dimensions, a part code, a dust protection 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	11
Non-interchangeable specification												
Assembled set	MHT	G	20	C1	R840				T_1	P		/FV
Interchangeable specification												
Single slide unit	MHT	G	20	C1					T_1	P	S1	/V
Single track rail (1)	LWH		20		R840	B				P	S1	/F
Assembled set	MHT	G	20	C1	R840				T_1	P	S1	/FV

1 **Model** — Model code: Page Ⅱ—91, Page Ⅱ—92

2 **Length of slide unit**

3 **Size** — Dimensions: Page Ⅱ—92

4 **Number of slide units** — Part code: Page Ⅱ—92, Page Ⅱ—93

5 **Length of track rail**

6 **Dust protection specification** — Dust protection code: Page Ⅱ—94

7 **Material type** — Material code: Page Ⅱ—96

8 **Preload amount** — Preload symbol: Page Ⅱ—96

9 **Accuracy class** — Classification symbol: Page Ⅱ—97

10 **Interchangeable** — Interchangeable code: Page Ⅱ—98

11 **Special specification** — Supplemental code: Page Ⅱ—99

Note (1) Indicate "LWH···B" or "LWH" for the model code of the single track rail regardless of the series and the combination of slide unit models.

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

Identification Number and Specification — Model —

1 Model

C-Lube Linear Way MH (MH series)	Flange type mounting from bottom	: MH
	Flange type mounting from top (2)	: MHT
	Block type mounting from top	: MHD
	Compact block type mounting from top	: MHS
Linear Way H (1) (LWH series)	Flange type mounting from bottom	: LWH (···B)
	Flange type mounting from top (2)	: LWHT (···B)
	Block type mounting from top	: LWHD (···B)
	Compact block type mounting from top	: LWHS (···B)
	Side mounting type	: LWHY

For applicable models and sizes, see Table 1.1 and Table 1.2.
Indicate "LWH···B" or "LWH" for the model code of the single track rail regardless of the series and the combination of slide unit models.

Notes (1) This model has no built-in C-Lube.
(2) Some models may be mounted upward.

Table 1.1 Models and sizes of MH and LWH series

Material	Shape	Length of slide unit	Model	Size 8	10	12	15	20	25	30	35	45	55	65
High carbon steel made	Flange type mounting from bottom	Standard	MH	–	–	–	○	○	○	○	○	○	–	–
			LWH···B	–	–	–	○	○	○	○	○	○	○	○
			MH···M (U)	–	–	–	–	–	○	○	–	–	–	–
			LWH···M (U)	–	–	–	○	○	○	○	○	○	–	–
		Long	MHG	–	–	–	–	○	○	○	○	○	–	–
			LWHG	–	–	–	–	○	○	○	○	○	○	○
	Flange type mounting from top	Standard	MHT	–	–	○(1)	○	○	○	○	○	○	–	–
			LWHT···B	–	–	○(1)(2)	○	○	○	○	○	○	○	○
			MHT···M (U)	–	–	–	–	–	○	○	–	–	–	–
			LWHT···M (U)	–	–	–	○	○	○	○	○	○	–	–
		Long	MHTG	–	–	–	○(1)	○	○	○	○	○	–	–
			LWHTG	–	–	–	–	○	○	○	○	○	○	○
	Block type mounting from top	Standard	MHD	–	–	○	○	–	○	○	○	○	–	–
			LWHD···B	–	–	○(2)	○	–	○	○	○	○	○	○
			MHD···M (U)	–	–	–	–	–	○	○	–	–	–	–
			LWHD···M (U)	–	–	–	○	–	○	○	○	○	–	–
		Long	MHDG	–	–	–	–	–	○	○	○	○	–	–
			LWHDG	–	–	–	–	–	○	○	○	○	○	○
	Compact block type mounting from top	Standard	MHS	–	–	–	○	○	○	○	–	–	–	–
			LWHS···B	–	–	–	○	○	○	○	–	–	–	–
			MHS···M (U)	–	–	–	–	–	○	○	–	–	–	–
			LWHS···M (U)	–	–	–	○	○	○	○	–	–	–	–
		Long	MHSG	–	–	–	○	○	○	○	–	–	–	–
			LWHSG	–	–	–	–	○	○	○	–	–	–	–
	Side mounting type	Standard	LWHY	–	–	–	○	○	○	○	○	○	–	–

Notes (1) This may be mounted upward.
(2) "···B" is not included in the model code.
Remark: For the models indicated in ▭, the interchangeable specification is available.

— Length of Slide Unit · Size · Number of Slide Unit —

2 Length of slide unit

Short	: C	For applicable models and sizes, see Table 1.1 and Table 1.2.
Standard	: No symbol	
Long	: G	

3 Size

8, 10, 12, 15, 20, 25, 30, 35, 45, 55, 65 — For applicable models and sizes, see Table 1.1 and Table 1.2.

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.

Table 1.2 Models and sizes of MH and LWH series

Material	Shape	Slide unit Length	Model	Size 8	10	12	15	20	25	30	35	45	55	65
Stainless steel made	Flange type mounting from bottom	Standard	LWH···SL	–	–	–	○	○	○	○	–	–	–	–
	Flange type mounting from top	Standard	MHT···SL	○(1)	○(1)	○(1)	○	○	○	○	–	–	–	–
			LWHT···SL	○(1)	○(1)	○(1)	○	○	○	○	–	–	–	–
	Block type mounting from top	Short	MHDC···SL	○	○	○	–	–	–	–	–	–	–	–
			LWHDC···SL	○	○	○	–	–	–	–	–	–	–	–
		Standard	MHD···SL	○	○	○	–	–	–	–	–	–	–	–
			LWHD···SL	○	○	○	–	–	–	–	–	–	–	–
		Long	MHDG···SL	○	○	○	–	–	–	–	–	–	–	–
			LWHDG···SL	○	○	○	–	–	–	–	–	–	–	–
	Compact block type mounting from top	Standard	MHS···SL	–	–	–	○	○	○	○	–	–	–	–
			LWHS···SL	–	–	–	○	○	○	○	–	–	–	–

Note (1) This may be mounted upward.
Remark: For the models indicated in ▭, the interchangeable specification is available.

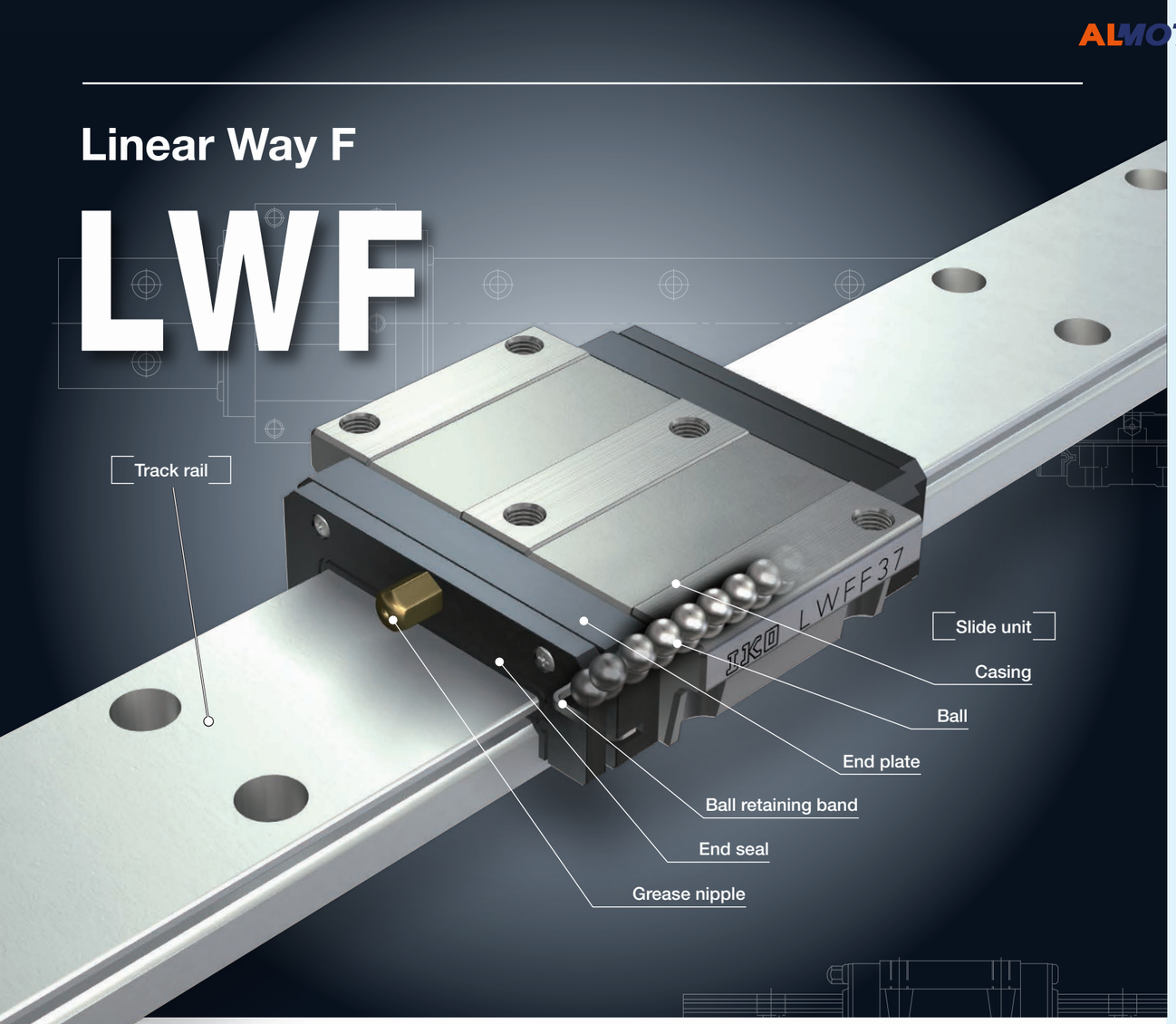
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1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

ALMOTION

Linear Way F

LWF



Points

● Wide rail type series resistant to moment load

1

As track rail width is wide and distance between moment load points is long, this is a linear motion rolling guide resistant to moment load and complex load and suitable for serial use.

● Slide unit shapes for various usage

2

As the lineup of three types of slide unit shape including two flange types with different dimensional series and block type with small width 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 a cleanroom environment.

Identification Number and Specification

Example of an identification number

The specification of LWF series is 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	6	7	8	9
Non-interchangeable specification									
Assembled set	LWFF	37	C1	R800		T1	P		/FZ
Interchangeable specification									
Single slide unit	LWFS	37	C1		SL	T1	P	S1	/Z
Single track rail(1)	LWFF	37		R800	SL		P	S1	/F
Assembled set	LWFS	37	C1	R800	SL	T1	P	S1	/FZ

1 **Model** — Model code Page Ⅱ−137

2 **Size** — Dimensions Page Ⅱ−137

3 **Number of slide units** — Part code Page Ⅱ−137

4 **Length of track rail** — Part code Page Ⅱ−137

5 **Material type** — Material code Page Ⅱ−137

6 **Preload amount** — Preload symbol Page Ⅱ−139

7 **Accuracy class** — Classification symbol Page Ⅱ−140

8 **Interchangeable** — Interchangeable code Page Ⅱ−141

9 **Special specification** — Supplemental code Page Ⅱ−141

Note (1) Indicate "LWFF" for the model code of the single track rail of block type LWFS mounting from top or stainless steel LWFS.

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

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

1 Model

Linear Way F (1) (LWF series)

Flange type mounting from top / bottom : LWFH / LWFF

Block type mounting from top : LWFS

For applicable models and sizes, see Table 1.
Indicate "LWFF" for the model code of the single track rail of block type LWFS mounting from top or stainless steel LWFS.

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

2 Size

33,37,40,42,60,69,90 — For applicable models and sizes, see Table 1.

3 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.

4 Length of track rail

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

5 Material type

High carbon steel made : No symbol
Stainless steel made (2) : SL

For applicable models and sizes, see Table 1.

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.

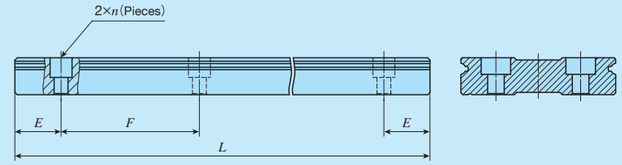
Table 1 Models and sizes of LWF series

Material	Shape	Model	Size						
			33	37	40	42	60	69	90
High carbon steel made	Flange type mounting from top/bottom	LWFH	–	–	○	–	○	–	○
	Flange type mounting from top/bottom	LWFF	○	○	–	○	–	○	–
	Block type mounting from top	LWFS	○	○	–	–	–	–	–
Stainless steel made	Block type mounting from top	LWFS···SL	○	○	–	○	–	–	–

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

Length of Track Rail · Material Type—

Table 2.1 Standard and maximum length of high carbon steel track rail



unit: mm

Item \ Identification number	LWFH40	LWFH60	LWFH90	
Standard length L (n)	180 (3) 240 (4) 360 (6) 480 (8) 660 (11) 840 (14)	240 (3) 480 (5) 640 (8) 800 (10) 1 040 (13)	480 (6) 640 (8) 800 (10) 1 040 (13) 1 200 (15) 1 520 (19)	
Pitch of mounting holes F	60	80	80	
E	30	40	40	
Standard E dimensions (1)	or higher	8	10	10
	below	38	50	50
Maximum length (2)	1 500	1 520	1 520	
Item \ Identification number	LWFF33 LWFS33	LWFF37 LWFS37	LWFF42	LWFF69
Standard length L (n)	120 (3) 200 (5) 320 (8) 480 (12) 560 (14)	150 (3) 250 (5) 400 (8) 500 (10) 600 (12) 800 (16)	180 (3) 240 (4) 360 (6) 480 (8) 660 (11) 840 (14)	320 (4) 480 (6) 800 (10) 1 040 (13) 1 280 (16) 1 600 (20)
Pitch of mounting holes F	40	50	60	80
E	20	25	30	40
Standard E dimensions (1) or higher	7	7	7	9
Standard E dimensions (1) below	27	32	37	49
Maximum length (2)	1 600	2 000	1 980	2 000

Notes (1) This does not apply to female threads for bellows (supplemental code "/J").
(2) We can produce products longer than the maximum length. If needed, please contact IKO.
Remarks 1. Indicate "LWFF" for the model code of the single track rail of block type LWFS mounting from top.
2. 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 length of stainless steel track rail

unit: mm

Item \ Identification number	LWFS33···SL	LWFS37···SL	LWFS42···SL
Standard length L (n)	120 (3) 200 (5) 320 (8) 480 (12) 560 (14)	150 (3) 250 (5) 400 (8) 500 (10) 600 (12) 800 (16)	180 (3) 240 (4) 360 (6) 480 (8) 660 (11) 840 (14)
Pitch of mounting holes F	40	50	60
E	20	25	30
Standard E dimensions (1) or higher	7	7	7
Standard E dimensions (1) below	27	32	37
Maximum length (2)	1 200	1 200	1 200

Notes (1) This does not apply to female threads for bellows (supplemental code "/J").
(2) We can produce products longer than the maximum length. If needed, please contact IKO.
Remarks 1. Indicate "LWFF" for the model code of the single track rail.
2. 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.

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

C-Lube Linear Way MUL

MUL



Points

1 Original U-shaped track rail

MUL and LWU series are the linear motion rolling guides adopting the U-shaped track rail to greatly increase rigidity of track rail under moment load and torsion.

2 Expanded freedom of design for use as a structure beam

Because of the high rigidity of the track rail, the track rail can be used as a structure beam, such as a cantilever or both-end support in the machine and equipment. Therefore, freedom of design is expanded for user.

3 Additional machining available for corresponding to needs

High carbon steel track rail can be machined additionally to fix mechanical components such as a driving mechanism on the track rail directly at user.

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

For details P.I-41

The main metal components made of corrosion-resistant stainless steel are available for small size of 25 mm and 30 mm of track rail width. They are suitable for applications where rust prevention oil is not preferred, such as in a cleanroom environment.

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Identification Number and Specification

Example of an identification number

The specifications of MUL and LWU series are indicated by the identification number. Indicate the identification number, consisting of a model code, dimensions, a part code, a preload symbol, a classification symbol, and any supplemental codes for each specification to apply.

	1	2	3	4	1	5	6	7
Assembled set	MUL	25	C2	R280		T1	H	/U

1 **Model** — Model code Page Ⅱ−159

2 **Size** — Dimensions Page Ⅱ−159

3 **Number of slide units** — Part code Page Ⅱ−159

4 **Length of track rail** — Part code Page Ⅱ−159

5 **Preload amount** — Preload symbol Page Ⅱ−161

6 **Accuracy class** — Classification symbol Page Ⅱ−161

7 **Special specification** — Supplemental code Page Ⅱ−162

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

Identification Number and Specification —Model · Structure · Size · Number of Slide unit ·

1 Model

C-Lube Linear Way MUL (MUL series)	Small type	: MUL
Linear Way U (1) (LWU series)	Standard type	: LWU

For applicable models and sizes, see Table 1.

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

2 Size

25,30,40,50,60,86 — For applicable models and sizes, see Table 1.

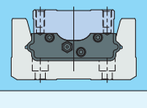
3 Number of slide units

: C○ — Indicates the number of slide units assembled on a track rail.

4 Length of track rail

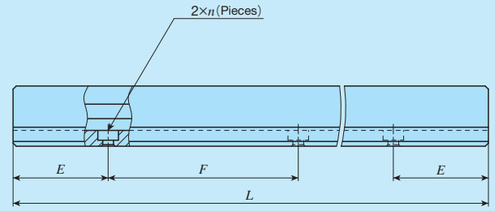
: R○ — Indicate the length of track rail in mm. For standard and maximum lengths, see Table 2.

Table 1 Models and sizes of MUL and LWU series

Shape	Material	Model	Size					
			25	30	40	50	60	86
Small type 	Stainless steel made	MUL	○	○	–	–	–	–
Standard type	High carbon steel made	LWU···B	–	–	○	○	○	○

Length of Track Rail —

Table 2 Standard and maximum lengths of track rail



unit: mm

Item \ Identification number	MUL25	MUL30	LWU40···B	LWU50···B
Standard length L (n)	105 (3) 140 (4) 175 (5) 210 (6) 245 (7) 280 (8)	120 (3) 160 (4) 200 (5) 240 (6) 280 (7) 320 (8)	180 (3) 240 (4) 300 (5) 360 (6) 420 (7) 480 (8)	240 (3) 320 (4) 400 (5) 480 (6) 560 (7) 640 (8)
Pitch of mounting holes F	35	40	60	80
E	17.5	20	30	40
Standard E dimensions — or higher	4.5	4.5	–	–
Standard E dimensions — below	22	24.5	–	–
Maximum length (1)	420 (840)	480 (960)	720	800

Item \ Identification number	LWU60···B	LWU86···B
Standard length L (n)	300 (3) 400 (4) 500 (5) 600 (6) 700 (7) 800 (8)	300 (3) 400 (4) 500 (5) 600 (6) 700 (7) 800 (8)
Pitch of mounting holes F	100	100
E	50	50
Maximum length (1)	1 000	1 200

Note (1) Length up to the value in ( ) can be produced. If needed, please contact IKO.

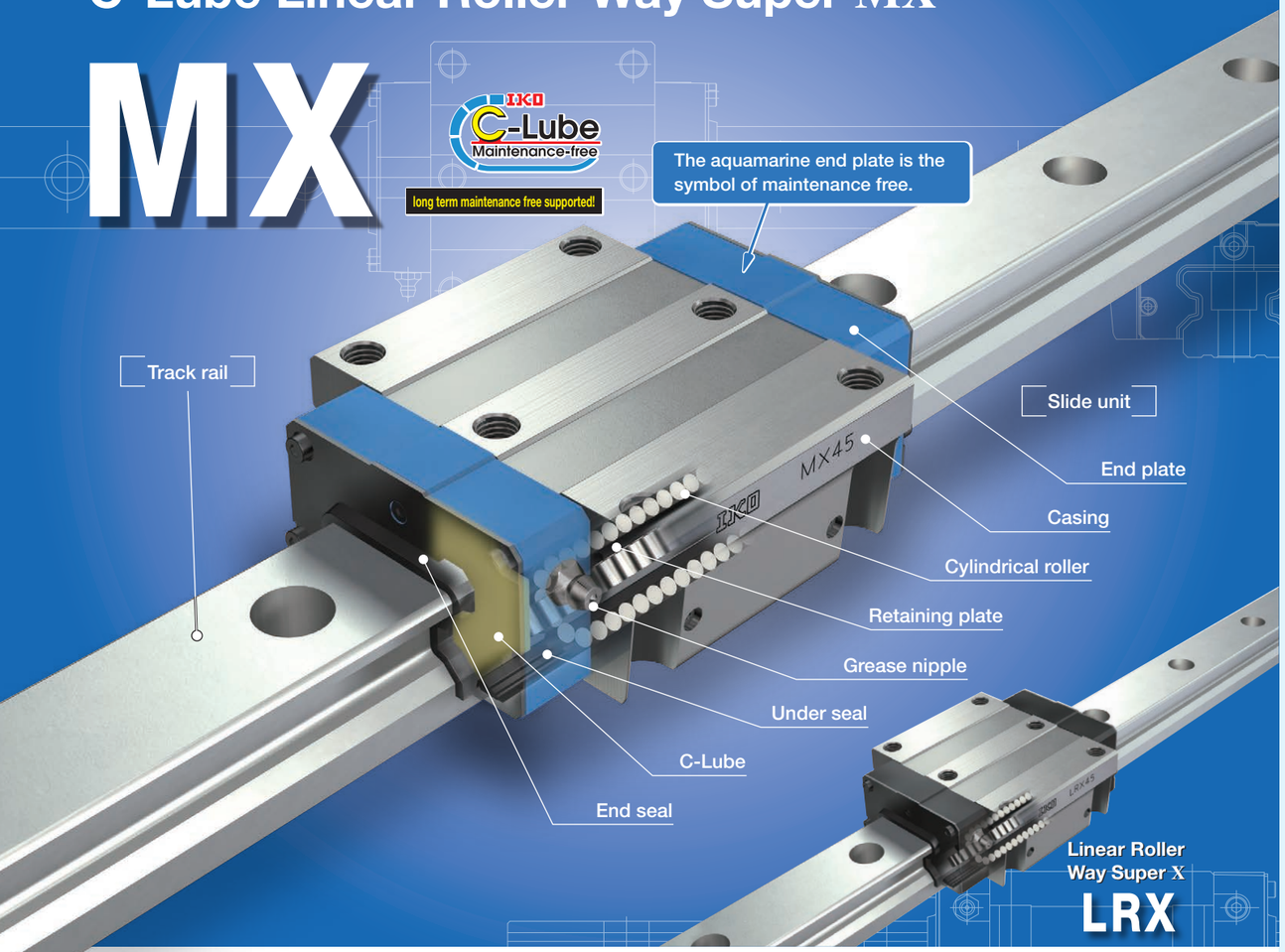
Remarks 1. If not directed, E dimensions for both ends will be the same within the range of standard E dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification. For more information, see page Ⅲ−30.

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

C-Lube Linear Roller Way Super MX

MX



Points

1 Roller type linear motion rolling guides having the highest level of rolling guide performance

For details P.I-21

Linear motion rolling guide that has achieved the highest level of performance in all characteristics, including load capacity, rigidity, friction characteristics and accuracy, brought about by utilizing the roller's excellent characteristic.

2 Wide range of variations for your needs

For details P.I-28

A wide variety of products, including five types of different slide unit shape such as the flange type, low profile flange type and low profile block type with low cross sectional height, etc., and four types of different slide unit length with varying lengths with same section are available. You can select an optimal product for the specifications of your machine and device.

3 Extra long unit

For details P.I-29

Extra long slide unit series having the length 1.4 to 1.5 times of standard type is now available. With more rollers built into the slide units, the new series not only have the enhanced load capacity and rigidity but also exhibit super accuracy running performance.

4 Stainless steels selections superior in corrosion resistance are listed on lineup.

For details P.I-41

A series of stainless steel products is available from the miniature size of track rail width 10 mm. They are highly corrosion-resistant and suitable for applications where rust prevention oil is not preferred, such as in cleanroom environment.

5 Easy replacement from ball type

For details P.I-24

Mounting dimensions are compatible with MH / LWH series of ball type. Therefore, replacement to roller type is possible without major design changes of machine and device.

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Identification Number and Specification

Example of an identification number

The specifications of MX and LRX 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	6	7	8	9	10
Non-interchangeable specification										
Assembled set	MX	G	15	C2	R240		T_1	P		/Z
Interchangeable specification										
Single slide unit	MX	G	15	C1			T_1	P	S1	/Z
Single track rail (1)	LRX		15		R240			P	S1	
Assembled set	MX	G	15	C2	R240		T_1	P	S1	/Z

1 **Model** — Model code Page Ⅱ－173

2 **Length of slide unit** — Model code Page Ⅱ－173

3 **Size** — Dimensions Page Ⅱ－173

4 **Number of slide units** — Part code Page Ⅱ－174

5 **Length of track rail** — Part code Page Ⅱ－174

6 **Material type** — Material code Page Ⅱ－174

7 **Preload amount** — Preload symbol Page Ⅱ－177

8 **Accuracy class** — Classification symbol Page Ⅱ－178

9 **Interchangeable** — Interchangeable code Page Ⅱ－179

10 **Special specification** — Supplemental code Page Ⅱ－179

Note (1) Indicate "LRX" 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

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

1 Model

C-Lube Linear Roller Way Super MX (MX series)	Flange type mounting from top / bottom	: MX (2)
	Block type mounting from top	: MXD
	Compact block type mounting from top	: MXS
	Low profile flange type mounting from top	: MXN
	Low profile block type mounting from top	: MXNS
Linear Roller Way Super X (1) (LRX series)	Flange type mounting from top / bottom	: LRX (2)
	Block type mounting from top	: LRXD
	Compact block type mounting from top	: LRXS

For applicable models and sizes, see Table 1.1 and Table 1.2.
Indicate "LRX" for the model code of the single track rail regardless of the series and the combination of slide unit models.

Notes (1) This model has no built-in C-Lube.
(2) Series of size 20 can only be mounted by the bolts from top. The models with the same dimensions allowing mounting from bottom are "MXH" and "LRXH."

2 Length of slide unit

Short	: C	For applicable models and sizes, see Table 1.1 and Table 1.2.
Standard	: No symbol	
Long	: G	
Extra long	: L	

3 Size

10, 12, 15, 20, 25, 30, 35, 45, 55, 65, 85, 100 — For applicable models and sizes, see Table 1.1 and Table 1.2.

Table 1.1 Models and sizes of MX and LRX series

Material	Shape	Slide unit Length	Model	Size 10	12	15	20	25	30	35	45	55	65	85	100
High carbon steel made	Flange type mounting from top / bottom	Short	MXC	–	○	○	○(1)	○	○	○	○	○	○	–	–
			LRXC	–	○	○	○(1)	○	○	○	○	○	○	–	–
		Standard	MX	–	○	○	○(1)	○	○	○	○	○	○	–	–
			LRX	–	○	○	○(1)	○	○	○	○	○	○	○	–
		Long	MXG	–	○	○	○(1)	○	○	○	○	○	○	–	–
			LRXG	–	○	○	○(1)	○	○	○	○	○	○	○	○
		Extra long	MXL	–	–	–	○(1)	○	○	○	○	○	○	–	–
			LRXL	–	–	–	–	–	–	–	–	–	–	○	–
	Block type mounting from top	Short	MXDC	–	○	○	○	○	○	○	○	○	○	–	–
			LRXDC	–	○	○	○	○	○	○	○	○	○	–	–
		Standard	MXD	–	○	○	○	○	○	○	○	○	○	–	–
			LRXD	–	○	○	○	○	○	○	○	○	○	○	–
		Long	MXDG	–	○	○	○	○	○	○	○	○	○	–	–
			LRXDG	–	○	○	○	○	○	○	○	○	○	○	–
		Extra long	MXDL	–	–	–	○	○	○	○	○	○	○	–	–
			LRXDL	–	–	–	–	–	–	–	–	–	–	○	–

Note (1) MXC20, MX20, MXG20, MXL20, LRXC20, LRX20 and LRXG20 can only be mounted by the bolts from top.
The models with the same dimensions allowing mounting from bottom are MXHC20, MXH20, MXHG20, MXHL20, LRXHC20, LRXH20 and LRXHG20.
Remark: For the models indicated in ▭, the interchangeable specification is available.

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

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 the standard and maximum lengths, see Table 2.1, Table 2.2, Table 2.3 and Table 2.4.

6 Material type

High carbon steel made	: No symbol	For applicable models and sizes, see Table 1.1 and Table 1.2.
Stainless steel made (1)	: SL	

Note (1) Mount a standard grease nipple (brass) on the stainless steel type, too.
Stainless steel grease nipple is also available. If needed, please contact IKO.

Table 1.2 Models and sizes of MX and LRX series

Material	Shape	Slide unit Length	Model	Size 10	12	15	20	25	30	35	45	55	65	85	100
High carbon steel made	Compact block type mounting from top	Short	MXSC	–	–	○	○	○	○	–	–	–	–	–	–
			LRXSC	–	–	○	○	○	○	–	–	–	–	–	–
		Standard	MXS	–	–	○	○	○	○	○	○	○	–	–	–
			LRXS	–	–	○	○	○	○	–	–	–	–	–	–
		Long	MXSG	–	–	○	○	○	○	○	○	○	–	–	–
			LRXSG	–	–	○	○	○	○	–	–	–	–	–	–
		Extra long	MXSL	–	–	–	○	○	○	–	–	–	–	–	–
	Low profile flange type mounting from top	Standard	MXN	–	–	–	–	–	○	○	○	○	–	–	–
		Long	MXNG	–	–	–	–	–	○	○	○	○	–	–	–
		Extra long	MXNL	–	–	–	–	–	○	○	○	○	–	–	–
	Low profile block type mounting from top	Standard	MXNS	–	–	–	–	–	○	○	○	○	–	–	–
		Long	MXNSG	–	–	–	–	–	○	○	○	○	–	–	–
		Extra long	MXNSL	–	–	–	–	–	○	○	○	○	–	–	–
Stainless steel made	Block type mounting from top	Short	LRXDC···SL	–	○	○	○	○	○	–	–	–	–	–	–
		Standard	MXD···SL	○	○	○	○	○	○	–	–	–	–	–	–
			LRXD···SL	○	○	○	○	○	○	–	–	–	–	–	–
		Long	LRXDG···SL	–	○	○	○	○	○	–	–	–	–	–	–

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

MX · LRX

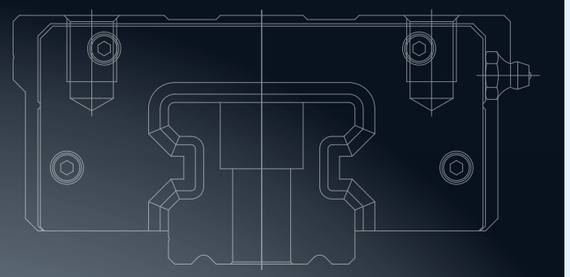
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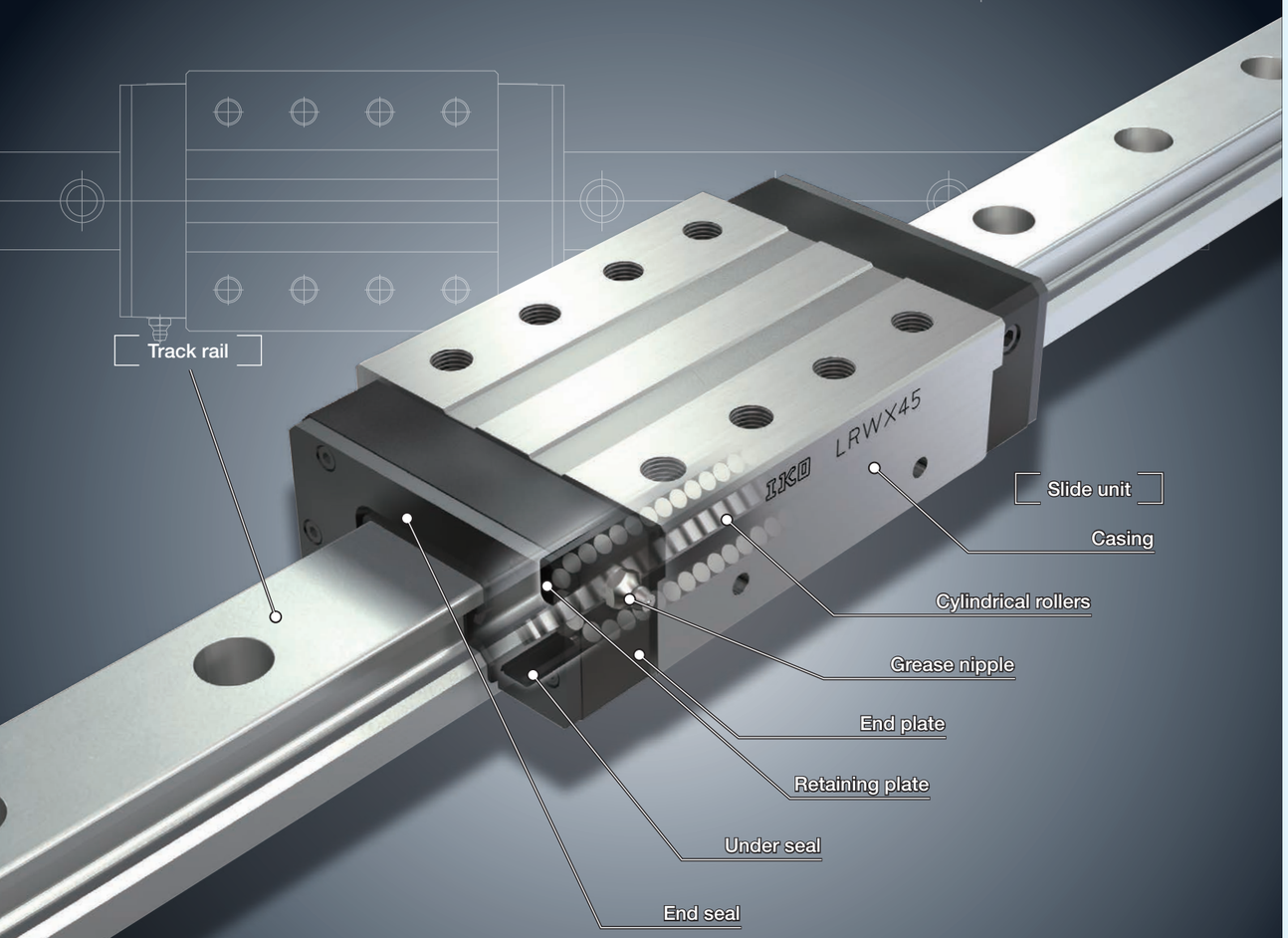
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

ALMOTION

Linear Roller Way X

LRWX





Roller type linear motion rolling guide with cylindrical rollers in four-rows!

Well-balanced roller arrangement enabling equal resistance to all direction loads!

Slide unit shape block type and flange type are available and can be selected according to the application!

Identification Number and Specification

Example of an identification number

The specification of LRWX series is indicated by the identification number. Indicate the identification number, consisting of a model code, dimensions, a part code, a preload symbol, a classification symbol, and any supplemental codes for each specification to apply.

	1	2	3	4	1	5	6	7
Assembled set	LRWX	35	C2	R660	B	T_2	SP	/Z

1 **Model** — Model code — Page Ⅱ－221

2 **Size** — Dimensions — Page Ⅱ－221

3 **Number of slide units**

4 **Length of track rail**

Part code — Page Ⅱ－221

5 **Preload amount** — Preload symbol — Page Ⅱ－222

6 **Accuracy class** — Classification symbol — Page Ⅱ－222

7 **Special specification** — Supplemental code — Page Ⅱ－223

1N=0.102kgf=0.2248lbs.
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Identification Number and Specification —Model · Size · Number of Slide Unit · Length of Track Rail—

1 Model

Linear Roller Way X (1) (LRWX series)

Block type mounting from top : LRWX···B
Flange type mounting from bottom : LRWXH

For applicable models and sizes, see Table 1.

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

2 Size

25,35,45,55,75 — For applicable models and sizes, see Table 1.

3 Number of slide units : C○

Indicates the number of slide units assembled on a track rail.

4 Length of track rail : R○

Indicate the length of track rail in mm.
For standard and maximum lengths, see Table 2.

Table 1 Models and sizes of LRWX series

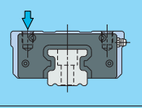
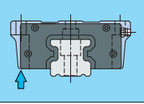
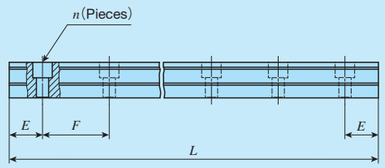
Shape	Model	Size				
		25	35	45	55	75
Block type mounting from top 	LRWX···B	○	○	○	○	○
Flange type mounting from bottom 	LRWXH	–	○	○	○	○

Table 2 Standard and maximum lengths of track rail



unit: mm

Item \ Identification number	LRWX25···B	LRWX25···B/HP(3)	LRWX 35···B LRWXH35	LRWX 45···B LRWXH45	LRWX 55···B LRWXH55	LRWX 75···B LRWXH75
Standard length L (n)	480 (8) 660 (11) 840 (14) 1 020 (17) 1 200 (20) 1 500 (25)	480 (16) 660 (22) 840 (28) 1 020 (34) 1 200 (40) 1 500 (50)	480 (8) 660 (11) 840 (14) 1 020 (17) 1 200 (20) 1 500 (25)	800 (10) 1 040 (13) 1 200 (15) 1 520 (19) 1 920 (24)	800 (8) 1 000 (10) 1 200 (12) 1 500 (15) 2 000 (20) 3 000 (30)	840 (7) 1 200 (10) 1 560 (13) 1 920 (16) 3 000 (25)
Pitch of mounting holes F	60	30	60	80	100	120
E	30	15	30	40	50	60
Standard E dimensions (1) or higher	9	9	12	15	18	23
Standard E dimensions (1) below	39	24	42	55	68	83
Maximum length (2)	1 980 (3 000)	1 980 (3 000)	3 000 (3 960)	2 960 (4 000)	3 000 (4 000)	3 000 (3 960)

Notes (1) Not applicable to female threads for bellows (supplemental code "/J").
(2) Length up to the value in ( ) can be produced. If needed, please contact IKO.
(3) This indicates the dimension for the half pitch mounting holes specification of track rail.
Remark: 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.

—Preload Amount · Accuracy Class—

5 Preload amount

Standard : No symbol
Light preload : T_1
Medium preload : T_2
Heavy preload : T_3

For details of the preload amount, see Table 3.

6 Accuracy class

High : H
Precision : P
Super precision : SP
Ultra precision : UP

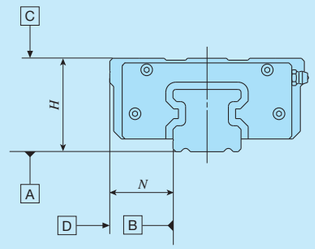
For details of accuracy class, see Table 4.

Table 3 Preload amount

Item \ Preload type	Preload symbol	Preload amount N	Operational conditions
Standard	(No symbol)	0(1)	· Light and precise motion
Light preload	T_1	0.02 C_0	· Almost no vibrations · Load is evenly balanced · Light and precise motion
Medium preload	T_2	0.05 C_0	· Medium vibration · Medium overhung load
Heavy preload	T_3	0.08 C_0	· Operation with vibration and / or shock · Overhanging load applied · Heavy cutting

Note (1) Indicates zero or minimal amount of preload.
Remark: C_0 indicates the basic static load rating.

Table 4 Tolerance and allowance



unit: mm

Item \ Class (classification symbol)	High (H)	Precision (P)	Super precision (SP)	Ultra precision (UP)
Dim. H tolerance	±0.040	±0.020	±0.010	±0.008
Dim. N tolerance	±0.050	±0.025	±0.015	±0.010
Dim. variation of H(1)	0.015	0.007	0.005	0.003
Dim. variation of N(1)	0.020	0.010	0.007	0.003
Dim. variation of H for multiple assembled sets	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			

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

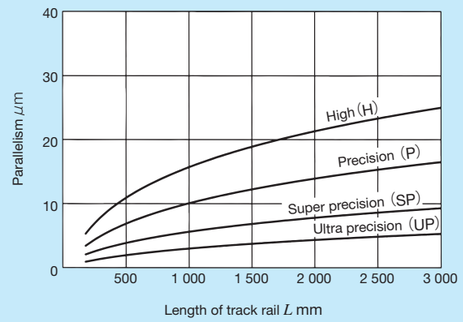


Fig. 1 Parallelism in operation

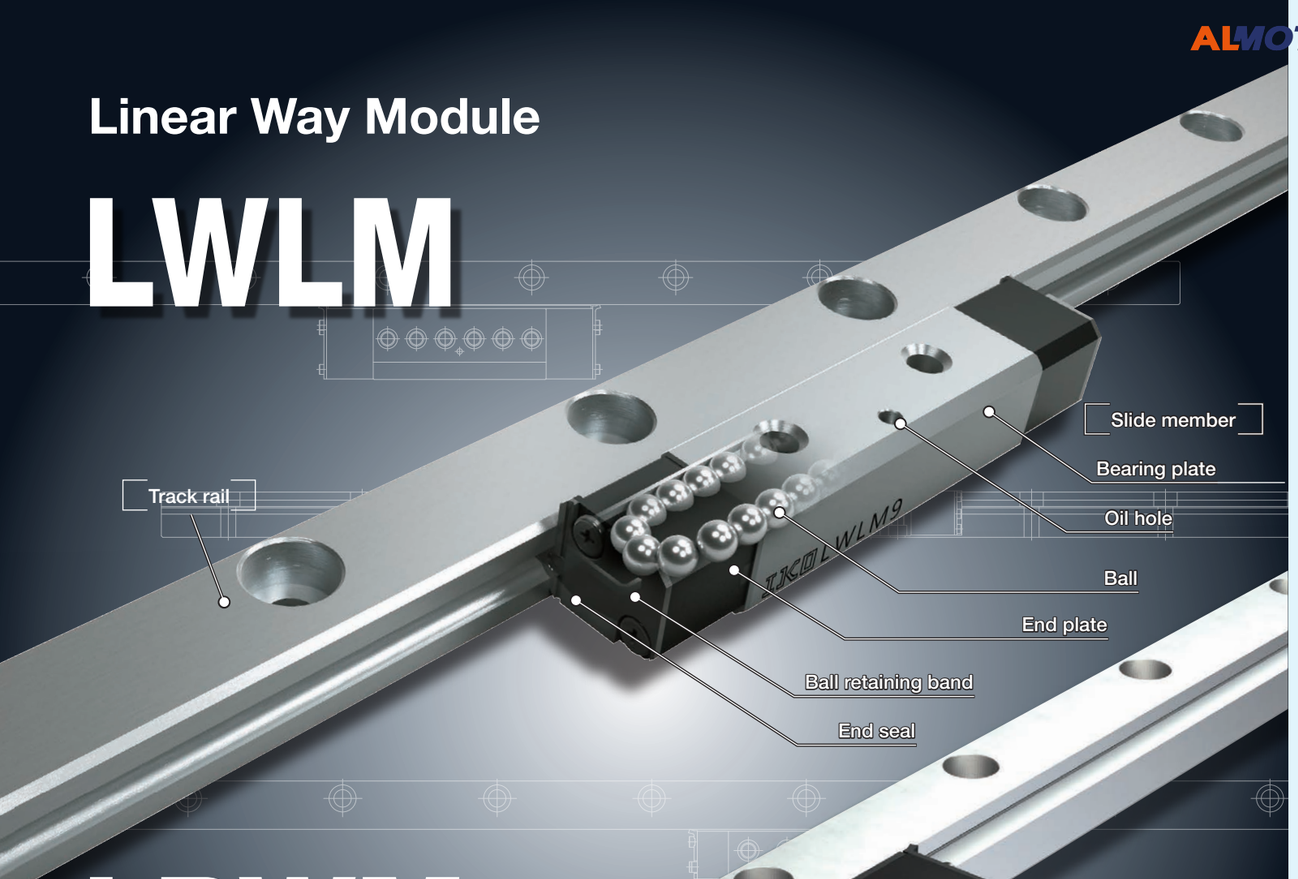
LRWX

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

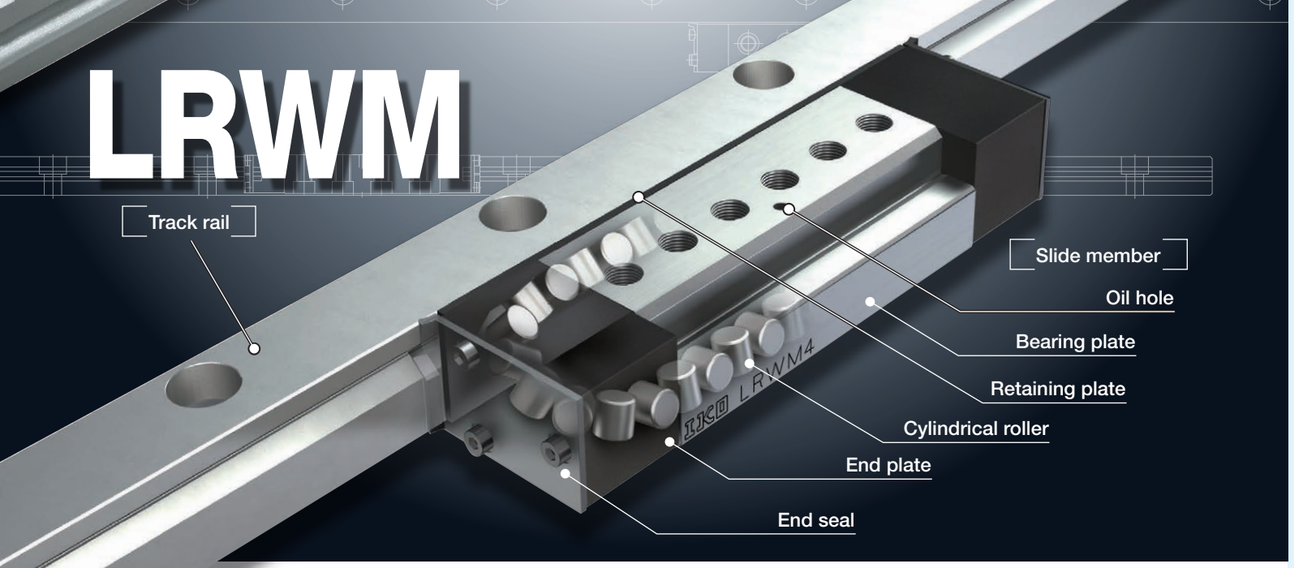
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Linear Way Module

LWLM



LRWM



Points

● Compact module type

1

Compact linear motion rolling guides consisting of a set of track rail and slide member which forms the smallest unit of linear motion mechanism.

● Available Models

2

Two models are available: LWLM which uses balls for the rolling elements; and LRWM which uses rollers.

● Stainless steel selections for excellent corrosion resistance

3

LWLM is made of stainless steel of excellent corrosion resistance. They are suitable for applications where rust prevention oil is not preferred, such as in cleanroom environment.

Identification Number and Specification

Example of an identification number

The specification of Linear Way Module series is indicated by the identification number. Indicate the identification number, consisting of a model code, dimensions, a part code, a classification symbol, and any supplemental codes for each specification to apply.

	1	2	3	4	5	6
Assembled set	LRWM	3	M2	R660	SP	/W2

1 Model — Model code Page Ⅱ−235

2 Size — Dimensions Page Ⅱ−235

3 Number of slide members — Part code Page Ⅱ−235 Page Ⅱ−236

4 Length of track rail — Part code Page Ⅱ−235 Page Ⅱ−236

5 Accuracy class — Classification symbol Page Ⅱ−237

6 Special specification — Supplemental Code Page Ⅱ−238

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

Identification Number and Specification —Model · Size · Number of Slide Member—

1 Model

Linear Way Module — Linear Way LM (1) : LWLM; Linear Roller Way M (1) : LRWM

For applicable models and sizes, see Table 1.1 and 1.2.

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

2 Size

7, 9, 11
2, 3, 4, 5, 6

For applicable models and sizes, see Table 1.1 and 1.2.

3 Number of slide members

: M○

Indicates the number of slide members assembled on a track rail.

Table 1.1 Model and sizes of LWLM series

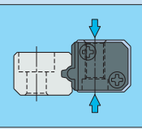
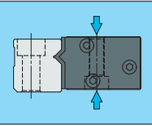
Shape	Model	Size		
		7	9	11
	LWLM	○	○	○

Table 1.2 Model and sizes of LRWM series

Shape	Model	Size				
		2	3	4	5	6
	LRWM	○	○	○	○	○

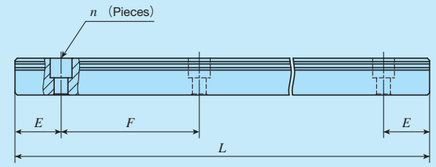
—Length of Track Rail—

4 Length of track rail

: R○

Indicate the length of track rail in mm.
For standard and maximum lengths, see Table 2.

Table 2 Standard and maximum lengths of track rail



unit: mm

Item \ Identification number		LWLM7	LWLM9	LWLM11
Standard length L (n)		60 (3) 80 (4) 120 (6) 160 (8)	100 (4) 150 (6) 200 (8) 275 (11)	160 (4) 240 (6) 320 (8) 440 (11)
Pitch of mounting holes F		20	25	40
E		10	12.5	20
Standard E dimensions	or higher	4.5	5	5.5
	below	14.5	17.5	25.5
Maximum length (1)		240 (500)	350 (900)	520 (1 000)

Item \ Identification number		LRWM2	LRWM3	LRWM4	LRWM5	LRWM6
Standard length L (n)		480 (8) 660 (11) 840 (14)	480 (8) 660 (11) 840 (14)	800 (10) 1 040 (13) 1 200 (15)	800 (8) 1 200 (12) 1 500 (15)	1 200 (10)
Pitch of mounting holes F		60	60	80	100	120
E		30	30	40	50	60
Standard E dimensions	or higher	8	9	10	12	13
	below	38	39	50	62	73
Maximum length		1 800	1 860	1 920	1 600	1 200

Note (1) Length up to the value in ( ) can be produced. If needed, please contact IKO.
Remark: 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.

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

Model Code Index

Model code	Series name	Catalog name	Page
B			
BG	Stroke Rotary Cage	RED	Ⅱ-192
BK···A	Miniature Stroke Rotary Bushing	RED	Ⅱ-187
BSP···SL	Precision Linear Slide Unit	RED	Ⅱ- 89
BSPG···SL	Precision Linear Slide Unit	RED	Ⅱ- 91
BSR···SL	Precision Linear Slide Unit	RED	Ⅱ- 93
BSU···A	Linear Slide Unit	RED	Ⅱ- 99
BWU	High Rigidity Precision Linear Slide Unit	RED	Ⅱ- 81
C			
CRW	Crossed Roller Way	RED	Ⅱ- 33
CRW···SL	Crossed Roller Way	RED	Ⅱ- 33
CRWG	Anti-Creep Cage Crossed Roller Way	RED	Ⅱ- 27
CRWG···H	Anti-Creep Cage Crossed Roller Way H	RED	Ⅱ- 31
CRWM	Crossed Roller Way	RED	Ⅱ- 49
CRWU	Crossed Roller Way Unit	RED	Ⅱ- 63
CRWU···R	Crossed Roller Way Unit	RED	Ⅱ- 67
CRWU···RS	Crossed Roller Way Unit	RED	Ⅱ- 71
CRWUG	Anti-Creep Cage Crossed Roller Way Unit	RED	Ⅱ- 61
F			
FT	Flat Roller Cage	RED	Ⅱ-211
FT···N	Flat Roller Cage	RED	Ⅱ-211
FT···V	Flat Roller Cage	RED	Ⅱ-211
FTW···A	Flat Roller Cage	RED	Ⅱ-212
FTW···VA	Flat Roller Cage	RED	Ⅱ-212
G			
GSN	Roller Way	RED	Ⅱ-204
L			
LM	Linear Bushing	RED	Ⅱ-147
LM···AJ	Linear Bushing	RED	Ⅱ-147
LM···F	Linear Bushing	RED	Ⅱ-161
LM···F AJ	Linear Bushing	RED	Ⅱ-161
LM···F OP	Linear Bushing	RED	Ⅱ-161
LM···F UU	Linear Bushing	RED	Ⅱ-163
LM···F UU AJ	Linear Bushing	RED	Ⅱ-163
LM···F UU OP	Linear Bushing	RED	Ⅱ-163
LM···N	Linear Bushing	RED	Ⅱ-147
LM···N AJ	Linear Bushing	RED	Ⅱ-147
LM···N F	Linear Bushing	RED	Ⅱ-161
LM···N F AJ	Linear Bushing	RED	Ⅱ-161
LM···N F OP	Linear Bushing	RED	Ⅱ-161
LM···N F UU	Linear Bushing	RED	Ⅱ-163
LM···N F UU AJ	Linear Bushing	RED	Ⅱ-163
LM···N F UU OP	Linear Bushing	RED	Ⅱ-163
LM···N OP	Linear Bushing	RED	Ⅱ-147
LM···N UU	Linear Bushing	RED	Ⅱ-151
LM···N UU AJ	Linear Bushing	RED	Ⅱ-151
LM···N UU OP	Linear Bushing	RED	Ⅱ-151
LM···OP	Linear Bushing	RED	Ⅱ-147
LM···UU	Linear Bushing	RED	Ⅱ-151
LM···UU AJ	Linear Bushing	RED	Ⅱ-151
LM···UU OP	Linear Bushing	RED	Ⅱ-151
LMB	Linear Bushing	RED	Ⅱ-159
LMB···AJ	Linear Bushing	RED	Ⅱ-159
LMB···N	Linear Bushing	RED	Ⅱ-159
LMB···N AJ	Linear Bushing	RED	Ⅱ-159
LMB···N OP	Linear Bushing	RED	Ⅱ-159
LMB···OP	Linear Bushing	RED	Ⅱ-159
LME	Linear Bushing	RED	Ⅱ-155
LME···AJ	Linear Bushing	RED	Ⅱ-155
LME···F	Linear Bushing	RED	Ⅱ-165
LME···F AJ	Linear Bushing	RED	Ⅱ-165
LME···F OP	Linear Bushing	RED	Ⅱ-165
LME···F UU	Linear Bushing	RED	Ⅱ-167
LME···F UU AJ	Linear Bushing	RED	Ⅱ-167
LME···F UU OP	Linear Bushing	RED	Ⅱ-167
LME···N	Linear Bushing	RED	Ⅱ-155
LME···N AJ	Linear Bushing	RED	Ⅱ-155
LME···N F	Linear Bushing	RED	Ⅱ-165
LME···N F AJ	Linear Bushing	RED	Ⅱ-165
LME···N F OP	Linear Bushing	RED	Ⅱ-165
LME···N F UU	Linear Bushing	RED	Ⅱ-167
LME···N F UU AJ	Linear Bushing	RED	Ⅱ-167
LME···N F UU OP	Linear Bushing	RED	Ⅱ-167
LME···N OP	Linear Bushing	RED	Ⅱ-155
LME···N UU	Linear Bushing	RED	Ⅱ-157
LME···N UU AJ	Linear Bushing	RED	Ⅱ-157
LME···N UU OP	Linear Bushing	RED	Ⅱ-157
LME···OP	Linear Bushing	RED	Ⅱ-155
LME···UU	Linear Bushing	RED	Ⅱ-157
LME···UU AJ	Linear Bushing	RED	Ⅱ-157
LME···UU OP	Linear Bushing	RED	Ⅱ-157
LMG	Linear Bushing G	RED	Ⅱ-139
LMGT	Linear Bushing G	RED	Ⅱ-139
LMS	Miniature Linear Bushing	RED	Ⅱ-172
LMS···F	Miniature Linear Bushing	RED	Ⅱ-172
LMS···F UU	Miniature Linear Bushing	RED	Ⅱ-172
LMS···UU	Miniature Linear Bushing	RED	Ⅱ-172
LMSL	Miniature Linear Bushing	RED	Ⅱ-172
LMSL···F	Miniature Linear Bushing	RED	Ⅱ-172
LMSL···F UU	Miniature Linear Bushing	RED	Ⅱ-172
LMSL···UU	Miniature Linear Bushing	RED	Ⅱ-172
LRWM	Linear Way Module	BLUE	Ⅱ-243
LRWX···B	Linear Roller Way X	BLUE	Ⅱ-227
LRWXH	Linear Roller Way X	BLUE	Ⅱ-229
LRX	Linear Roller Way Super X	BLUE	Ⅱ-191
LRXC	Linear Roller Way Super X	BLUE	Ⅱ-191
LRXD	Linear Roller Way Super X	BLUE	Ⅱ-199
LRXD···SL	Linear Roller Way Super X	BLUE	Ⅱ-199
LRXDC	Linear Roller Way Super X	BLUE	Ⅱ-199
LRXDC···SL	Linear Roller Way Super X	BLUE	Ⅱ-199
LRXDG	Linear Roller Way Super X	BLUE	Ⅱ-199
LRXDG···SL	Linear Roller Way Super X	BLUE	Ⅱ-199
LRXDL	Linear Roller Way Super X	BLUE	Ⅱ-207
LRXG	Linear Roller Way Super X	BLUE	Ⅱ-191
LRXH	Linear Roller Way Super X	BLUE	Ⅱ-191
LRXHC	Linear Roller Way Super X	BLUE	Ⅱ-191
LRXHG	Linear Roller Way Super X	BLUE	Ⅱ-191
LRXL	Linear Roller Way Super X	BLUE	Ⅱ-197
LRXS	Linear Roller Way Super X	BLUE	Ⅱ-209
LRXSC	Linear Roller Way Super X	BLUE	Ⅱ-209
LRXSG	Linear Roller Way Super X	BLUE	Ⅱ-209
LSAG	Linear Ball Spline G	RED	Ⅱ-123
LSAGF	Linear Ball Spline G	RED	Ⅱ-127
LSAGFL	Linear Ball Spline G	RED	Ⅱ-127
LSAGFLT	Linear Ball Spline G	RED	Ⅱ-127
LSAGFT	Linear Ball Spline G	RED	Ⅱ-127
LSAGL	Linear Ball Spline G	RED	Ⅱ-123
LSAGLT	Linear Ball Spline G	RED	Ⅱ-123
LSAGT	Linear Ball Spline G	RED	Ⅱ-123
LWE	Linear Way E	BLUE	Ⅱ- 75
LWE···Q	Low Decibel Linear Way E	BLUE	Ⅱ- 75
LWE···SL	Linear Way E	BLUE	Ⅱ- 75
LWEC	Linear Way E	BLUE	Ⅱ- 75
LWEC···SL	Linear Way E	BLUE	Ⅱ- 75
LWEG	Linear Way E	BLUE	Ⅱ- 75
LWEG···SL	Linear Way E	BLUE	Ⅱ- 75
LWES	Linear Way E	BLUE	Ⅱ- 83
LWES···Q	Low Decibel Linear Way E	BLUE	Ⅱ- 83
LWES···SL	Linear Way E	BLUE	Ⅱ- 83
LWESC	Linear Way E	BLUE	Ⅱ- 83
LWESC···SL	Linear Way E	BLUE	Ⅱ- 83
LWESG	Linear Way E	BLUE	Ⅱ- 83
LWESG···SL	Linear Way E	BLUE	Ⅱ- 83
LWET	Linear Way E	BLUE	Ⅱ- 79
LWET···Q	Low Decibel Linear Way E	BLUE	Ⅱ- 79
LWET···SL	Linear Way E	BLUE	Ⅱ- 79
LWETC	Linear Way E	BLUE	Ⅱ- 79
LWETC···SL	Linear Way E	BLUE	Ⅱ- 79
LWETG	Linear Way E	BLUE	Ⅱ- 79
LWETG···SL	Linear Way E	BLUE	Ⅱ- 79
LWFF	Linear Way F	BLUE	Ⅱ-151
LWFH	Linear Way F	BLUE	Ⅱ-149
LWFS	Linear Way F	BLUE	Ⅱ-153
LWFS···SL	Linear Way F	BLUE	Ⅱ-153
LWH···B	Linear Way H	BLUE	Ⅱ-107
LWH···M	Linear Way H	BLUE	Ⅱ-107
LWH···MU	Linear Way H	BLUE	Ⅱ-107

Note: BLUE denotes CAT-1591E, while RED denotes CAT-1592E

Model Code Index

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Model Code Index

Model code	Series name	Catalog name	Page
L			
LWH···SL	Linear Way H	BLUE	Ⅱ-107
LWHD	Linear Way H	BLUE	Ⅱ-121
LWHD···B	Linear Way H	BLUE	Ⅱ-123
LWHD···M	Linear Way H	BLUE	Ⅱ-123
LWHD···MU	Linear Way H	BLUE	Ⅱ-123
LWHD···SL	Linear Way H	BLUE	Ⅱ-121
LWHDC···SL	Linear Way H	BLUE	Ⅱ-121
LWHDG	Linear Way H	BLUE	Ⅱ-123
LWHDG···SL	Linear Way H	BLUE	Ⅱ-121
LWHG	Linear Way H	BLUE	Ⅱ-107
LWHS···B	Linear Way H	BLUE	Ⅱ-127
LWHS···M	Linear Way H	BLUE	Ⅱ-127
LWHS···MU	Linear Way H	BLUE	Ⅱ-127
LWHS···SL	Linear Way H	BLUE	Ⅱ-127
LWHSG	Linear Way H	BLUE	Ⅱ-127
LWHT	Linear Way H	BLUE	Ⅱ-113
LWHT···B	Linear Way H	BLUE	Ⅱ-113
LWHT···M	Linear Way H	BLUE	Ⅱ-113
LWHT···MU	Linear Way H	BLUE	Ⅱ-113
LWHT···SL	Linear Way H	BLUE	Ⅱ-113
LWHTG	Linear Way H	BLUE	Ⅱ-115
LWHY	Linear Way H	BLUE	Ⅱ-131
LWL	Linear Way L	BLUE	Ⅱ- 23
LWL···B	Linear Way L	BLUE	Ⅱ- 25
LWL···B CS	Linear Way L	BLUE	Ⅱ- 27
LWL···N	Linear Way L	BLUE	Ⅱ- 25
LWL···Y	Linear Way L	BLUE	Ⅱ- 23
LWLC	Linear Way L	BLUE	Ⅱ- 23
LWLC···B	Linear Way L	BLUE	Ⅱ- 25
LWLC···N	Linear Way L	BLUE	Ⅱ- 25
LWLF	Linear Way L	BLUE	Ⅱ- 31
LWLF···B	Linear Way L	BLUE	Ⅱ- 31
LWLF···BCS	Linear Way L	BLUE	Ⅱ- 35
LWLF···N	Linear Way L	BLUE	Ⅱ- 31
LWLFC	Linear Way L	BLUE	Ⅱ- 31
LWLFC···B	Linear Way L	BLUE	Ⅱ- 31
LWLFC···N	Linear Way L	BLUE	Ⅱ- 31
LWLFG···B	Linear Way L	BLUE	Ⅱ- 33
LWLFG···N	Linear Way L	BLUE	Ⅱ- 33
LWLG···B	Linear Way L	BLUE	Ⅱ- 25
LWLG···N	Linear Way L	BLUE	Ⅱ- 25
LWLM	Linear Way Module	BLUE	Ⅱ-241
LWU···B	Linear Way U	BLUE	Ⅱ-167
M			
MAG	C-Lube Linear Ball Spline MAG	RED	Ⅱ-123
MAGF	C-Lube Linear Ball Spline MAG	RED	Ⅱ-127
MAGFT	C-Lube Linear Ball Spline MAG	RED	Ⅱ-127
MAGL	C-Lube Linear Ball Spline MAG	RED	Ⅱ-123
MAGLT	C-Lube Linear Ball Spline MAG	RED	Ⅱ-123
MAGT	C-Lube Linear Ball Spline MAG	RED	Ⅱ-123
ME	C-Lube Linear Way ME	BLUE	Ⅱ- 75
ME···SL	C-Lube Linear Way ME	BLUE	Ⅱ- 75
MEC	C-Lube Linear Way ME	BLUE	Ⅱ- 75
MEC···SL	C-Lube Linear Way ME	BLUE	Ⅱ- 75
MEG	C-Lube Linear Way ME	BLUE	Ⅱ- 75
MEG···SL	C-Lube Linear Way ME	BLUE	Ⅱ- 75
MES	C-Lube Linear Way ME	BLUE	Ⅱ- 83
MES···SL	C-Lube Linear Way ME	BLUE	Ⅱ- 83
MESC	C-Lube Linear Way ME	BLUE	Ⅱ- 83
MESC···SL	C-Lube Linear Way ME	BLUE	Ⅱ- 83
MESG	C-Lube Linear Way ME	BLUE	Ⅱ- 83
MESG···SL	C-Lube Linear Way ME	BLUE	Ⅱ- 83
MET	C-Lube Linear Way ME	BLUE	Ⅱ- 79
MET···SL	C-Lube Linear Way ME	BLUE	Ⅱ- 79
METC	C-Lube Linear Way ME	BLUE	Ⅱ- 79
METC···SL	C-Lube Linear Way ME	BLUE	Ⅱ- 79
METG	C-Lube Linear Way ME	BLUE	Ⅱ- 79
METG···SL	C-Lube Linear Way ME	BLUE	Ⅱ- 79
MH	C-Lube Linear Way MH	BLUE	Ⅱ-107
MH···M	C-Lube Linear Way MH	BLUE	Ⅱ-107
MH···MU	C-Lube Linear Way MH	BLUE	Ⅱ-107
MHD	C-Lube Linear Way MH	BLUE	Ⅱ-121
MHD···M	C-Lube Linear Way MH	BLUE	Ⅱ-123
MHD···MU	C-Lube Linear Way MH	BLUE	Ⅱ-123
MHD···SL	C-Lube Linear Way MH	BLUE	Ⅱ-121
MHDC···SL	C-Lube Linear Way MH	BLUE	Ⅱ-121
MHDG	C-Lube Linear Way MH	BLUE	Ⅱ-123
MHDG···SL	C-Lube Linear Way MH	BLUE	Ⅱ-121
MHG	C-Lube Linear Way MH	BLUE	Ⅱ-107
MHS	C-Lube Linear Way MH	BLUE	Ⅱ-127
MHS···M	C-Lube Linear Way MH	BLUE	Ⅱ-129
MHS···MU	C-Lube Linear Way MH	BLUE	Ⅱ-129
MHS···SL	C-Lube Linear Way MH	BLUE	Ⅱ-127
MHSG	C-Lube Linear Way MH	BLUE	Ⅱ-127
MHT	C-Lube Linear Way MH	BLUE	Ⅱ-113
MHT···M	C-Lube Linear Way MH	BLUE	Ⅱ-115
MHT···MU	C-Lube Linear Way MH	BLUE	Ⅱ-115
MHT···SL	C-Lube Linear Way MH	BLUE	Ⅱ-113
MHTG	C-Lube Linear Way MH	BLUE	Ⅱ-113
ML	C-Lube Linear Way ML	BLUE	Ⅱ- 25
MLC	C-Lube Linear Way ML	BLUE	Ⅱ- 25
MLF	C-Lube Linear Way ML	BLUE	Ⅱ- 31
MLFC	C-Lube Linear Way ML	BLUE	Ⅱ- 31
MLFG	C-Lube Linear Way ML	BLUE	Ⅱ- 33
MLG	C-Lube Linear Way ML	BLUE	Ⅱ- 25
MLL	C-Lube Linear Way ML	BLUE	Ⅱ- 27
MLV	C-Lube Linear Way MLV	BLUE	Ⅱ- 47
MUL	C-Lube Linear Way MUL	BLUE	Ⅱ-167
MV	C-Lube Linear Way MV	BLUE	Ⅱ- 59
MX	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-191
MXC	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-191
MXD	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-199
MXD···SL	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-199
MXDC	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-199
MXDG	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-199
MXDL	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-201
MXG	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-191
MXH	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-191
MXHC	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-191
MXHG	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-191
MXHL	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-191
MXL	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-191
MXN	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-213
MXNG	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-213
MXNL	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-213
MXNS	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-215
MXNSG	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-215
MXNSL	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-215
MXS	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-209
MXSC	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-209
MXSG	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-209
MXSL	C-Lube Linear Roller Way Super MX	BLUE	Ⅱ-209
O			
OR···A	Miniature Stroke Rotary Bushing	RED	Ⅱ-187
R			
RW	Roller Way	RED	Ⅱ-201
RWB	Roller Way	RED	Ⅱ-202
S			
SF···A	Miniature Stroke Rotary Bushing	RED	Ⅱ-187
SR	Roller Way	RED	Ⅱ-203
ST	Stroke Rotary Bushing	RED	Ⅱ-179
ST···B	Stroke Rotary Bushing	RED	Ⅱ-179
ST···UU	Stroke Rotary Bushing	RED	Ⅱ-181
ST···UU B	Stroke Rotary Bushing	RED	Ⅱ-181
STS	Miniature Stroke Rotary Bushing	RED	Ⅱ-187
STSI	Miniature Stroke Rotary Bushing	RED	Ⅱ-187

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