C-Lube Linear Roller Way Super MX
Linear Roller Way Super X



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.

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.

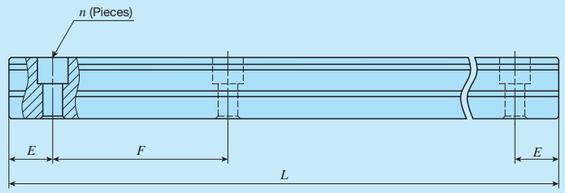
Table 1.2 Models and sizes of MX and LRX series

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.

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

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



unit: mm

Item \ Identification number	MX 12 LRX12	MX 15 LRX15	MX 20 LRX20	MX 25 LRX25	MX 30 LRX30	MX 35 LRX35
Standard length L (n)	80 (2) 160 (4) 240 (6) 320 (8) 400 (10) 480 (12) 560 (14) 640 (16) 720 (18)	180 (3) 240 (4) 360 (6) 480 (8) 660 (11)	240 (4) 480 (8) 660 (11) 840 (14) 1 020 (17) 1 200 (20) 1 500 (25)	240 (4) 480 (8) 660 (11) 840 (14) 1 020 (17) 1 200 (20) 1 500 (25)	480 (6) 640 (8) 800 (10) 1 040 (13) 1 200 (15) 1 520 (19)	480 (6) 640 (8) 800 (10) 1 040 (13) 1 200 (15) 1 520 (19)
Pitch of mounting holes F	40	60	60	60	80	80
E	20	30	30	30	40	40
Standard E dimensions (1) or higher	5.5	7	8	9	10	10
Standard E dimensions (1) below	25.5	37	38	39	50	50
Maximum length (2)	1 480	1 500 (1 980)	1 980 (3 000)	3 000 (3 960)	2 960 (4 000)	2 960 (4 000)

Item \ Identification number	MX 45 LRX45	MX 55 LRX55	MX 65 LRX65	LRX85	LRXG100
Standard length L (n)	840 (8) 1 050 (10) 1 260 (12) 1 470 (14) 1 995 (19)	840 (7) 1 200 (10) 1 560 (13) 1 920 (16) 3 000 (25)	1 500 (10) 1 950 (13) 3 000 (20)	1 620 (9) 1 980 (11) 2 340 (13) 2 700 (15)	1 500 (10) 1 950 (13) 3 000 (20)
Pitch of mounting holes F	105	120	150	180	150
E	52.5	60	75	90	75
Standard E dimensions (1) or higher	12.5	15	17	23	29
Standard E dimensions (1) below	65	75	92	113	104
Maximum length (2)	2 940 (3 990)	3 000 (3 960)	3 000 (3 900)	2 880	3 000

Notes (1) This does not apply to female threads for bellows (Supplemental code "/J").
(2) 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 "LRX" for the model code of the single track rail regardless of the series and the combination of slide unit models.
3. In the case where track rail mounting hole is half pitch specification (Supplemental code "/HP"), see Table 2.3.
4. 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.

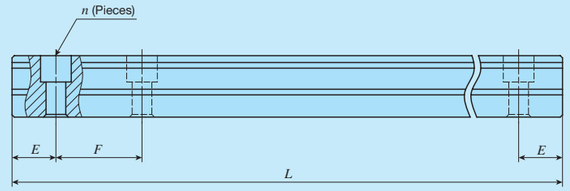
Table 2.2 Standard and maximum length of stainless steel track rail

unit: mm

Item \ Identification number	MXD 10···SL LRXD10···SL	MX 12···SL LRX12···SL	MX 15···SL LRX15···SL	MX 20···SL LRX20···SL	MX 25···SL LRX25···SL	MX 30···SL LRX30···SL
Standard length L (n)	50 (2) 100 (4) 150 (6) 200 (8) 250 (10) 300 (12) 350 (14) 400 (16) 450 (18) 500 (20)	80 (2) 160 (4) 240 (6) 320 (8) 400 (10) 480 (12) 560 (14) 640 (16) 720 (18)	180 (3) 240 (4) 360 (6) 480 (8) 660 (11)	240 (4) 480 (8) 660 (11) 840 (14)	240 (4) 480 (8) 660 (11) 840 (14)	480 (6) 640 (8) 800 (10) 1 040 (13)
Pitch of mounting holes F	25	40	60	60	60	80
E	12.5	20	30	30	30	40
Standard E dimensions (1) or higher	5	5.5	7	8	9	10
Standard E dimensions (1) below	17.5	25.5	37	38	39	50
Maximum length (2)	850 (1 000)	1 000 (1 480)	1 200 (1 980)	1 200 (1 980)	1 200 (1 980)	1 200 (2 000)

Notes (1) This does not apply to female threads for bellows (Supplemental code "/J").
(2) 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 "LRX" for the model code of the single track rail regardless of the series and the combination of slide unit models.
3. In the case where track rail mounting hole is half pitch specification (Supplemental code "/HP"), see Table 2.4.
4. 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 2.3 Standard and maximum length of high carbon steel track rail (Half pitch mounting holes specification supplemental code /HP)



unit: mm

Item \ Identification number	MX 12···/HP LRX12···/HP	MX 15···/HP LRX15···/HP	MX 20···/HP LRX20···/HP	MX 25···/HP LRX25···/HP	MX 30···/HP LRX30···/HP	MX 35···/HP LRX35···/HP
Standard length L (n)	80 (4) 160 (8) 240 (12) 320 (16) 400 (20) 480 (24) 560 (28) 640 (32) 720 (36)	180 (6) 240 (8) 360 (12) 480 (16) 660 (22)	240 (8) 480 (16) 660 (22) 840 (28) 1 020 (34) 1 200 (40) 1 500 (50)	480 (16) 660 (22) 840 (28) 1 020 (34) 1 200 (40) 1 500 (50)	480 (12) 640 (16) 800 (20) 1 040 (26) 1 200 (30) 1 520 (38)	480 (12) 640 (16) 800 (20) 1 040 (26) 1 200 (30) 1 520 (38)
Pitch of mounting holes F	20	30	30	30	40	40
E	10	15	15	15	20	20
Standard E dimensions (1) or higher	5.5	7	8	9	10	10
Standard E dimensions (1) below	15.5	22	23	24	30	30
Maximum length (2)	1 480	1 500 (1 980)	1 980 (3 000)	3 000 (3 960)	2 960 (4 000)	2 960 (4 000)

Item \ Identification number	MX 45···/HP LRX45···/HP	MX 55···/HP LRX55···/HP	MX 65···/HP LRX65···/HP	LRX85···/HP
Standard length L (n)	840 (16) 1 050 (20) 1 260 (24) 1 470 (28) 1 995 (38)	840 (14) 1 200 (20) 1 560 (26) 1 920 (32) 3 000 (50)	1 500 (20) 1 950 (26) 3 000 (40)	1 620 (18) 1 980 (22) 2 340 (26) 2 700 (30)
Pitch of mounting holes F	52.5	60	75	90
E	26.25	30	37.5	45
Standard E dimensions (1) or higher	12.5	15	17	23
Standard E dimensions (1) below	38.75	45	54.5	68
Maximum length (2)	2 940 (3 990)	3 000 (3 960)	3 000 (3 900)	2 970

Notes (1) This does not apply to female threads for bellows (Supplemental code "/J").
(2) 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 "LRX" for the model code of the single track rail regardless of the series and the combination of slide unit models.
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 2.4 Standard and maximum length of stainless steel track rail (Half pitch mounting holes specification supplemental code /HP)

unit: mm

Item \ Identification number	MX 12···SL/HP LRX12···SL/HP	MX 15···SL/HP LRX15···SL/HP	MX 20···SL/HP LRX20···SL/HP	MX 25···SL/HP LRX25···SL/HP	MX 30···SL/HP LRX30···SL/HP
Standard length L (n)	80 (4) 160 (8) 240 (12) 320 (16) 400 (20) 480 (24) 560 (28) 640 (32) 720 (36)	180 (6) 240 (8) 360 (12) 480 (16) 660 (22)	240 (8) 480 (16) 660 (22) 840 (28)	480 (16) 660 (22) 840 (28)	480 (12) 640 (16) 800 (20) 1 040 (26)
Pitch of mounting holes F	20	30	30	30	40
E	10	15	15	15	20
Standard E dimensions (1) or higher	5.5	7	8	9	10
Standard E dimensions (1) below	15.5	22	23	24	30
Maximum length (2)	1 000 (1 480)	1 200 (1 980)	1 200 (1 980)	1 200 (1 980)	1 200 (2 000)

Notes (1) This does not apply to female threads for bellows (Supplemental code "/J").
(2) 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 "LRX" for the model code of the single track rail regardless of the series and the combination of slide unit models.
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.

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

—Preload Amount—

7 Preload amount

Standard	: No symbol	Specify this item for an assembled set or a single slide unit.
Light preload	: T_1	For details of the preload amount, see Table 3.
Medium preload	: T_2	For applicable preload types, see Table 4.
Heavy preload	: T_3	

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 Application of preload

Size	Preload type (preload symbol)			
	Standard (No symbol)	Light preload (T_1)	Medium preload (T_2)	Heavy preload (T_3)
10	○	○	–	–
12	○	○	○	○
15	○	○	○	○
20	○	○	○	○
25	○	○	○	○
30	○	○	○	○
35	○	○	○	○
45	○	○	○	○
55	○	○	○	○
65	○	○	○	○
85	○	○	○	○
100	○	○	○	○

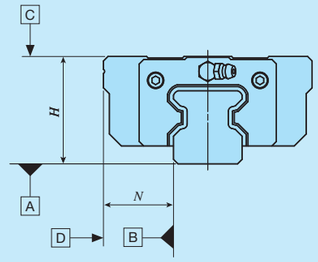
Remark: The mark ▭ indicates that interchangeable specification products are available.

—Accuracy Class—

8 Accuracy class

High	: H	For interchangeable specification products, assemble a slide unit and a track rail of the same accuracy class.
Precision	: P	For details of accuracy class, see Table 5.
Super precision	: SP	For applicable accuracy class, see Table 6.
Ultra precision	: UP	

Table 5 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 (2)	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.

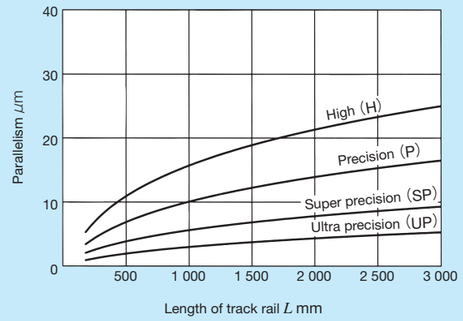


Fig. 1 Parallelism in operation

Table 6 Application of accuracy class

Size	Class (classification symbol)			
	High (H)	Precision (P)	Super precision (SP)	Ultra precision (UP)
10	○	○	○	○
12	○	○	○	○
15	○	○	○	○
20	○	○	○	○
25	○	○	○	○
30	○	○	○	○
35	○	○	○	○
45	○	○	○	○
55	○	○	○	○
65	○	○	○	○
85	○	○	○	○
100	○	○	○	○

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

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 1.1 and Table 1.2. "No symbol" is indicated for non-interchangeable specification.
S2 specification	: S2	
Non-interchangeable specification	: No symbol	

10 Special specification

/A, /D, /E, /F, /GE, /HP, /I, /J○, /L○, /LF○, /MA, /MN, /N, /PS, /Q, /RC○, /T, /UR, /V○, /W○, /Y○, /Z○

For applicable special specifications, see Tables 7.1, 7.2, 7.3, and 7.4.
For combination of multiple special specifications, see Table 8.
For details of special specifications, see page Ⅲ—29.

Table 7.1 Application of special specifications (Interchangeable specification, single slide unit)

Special specification	Supplemental code	Size											
		10	12	15	20	25	30	35	45	55	65	85	100
Changed pitch of slide unit middle mounting holes (1)	/GE	—	×	○	○	○	○	○	○	○	○	—	—
Female threads for bellows (2)	/J○	—	×	○	○	○	○	○	○	○	○	—	—
No end seal (3)	/N	—	○	○	○	○	○	○	○	×	×	—	—
With C-Lube plate (4)	/Q	—	○	○	○	○	○	○	○	○	○	—	—
Double end seals	/V○	—	○	○	○	○	○	○	○	○	○	—	—
Scrapers	/Z○	—	○	○	○	○	○	○	○	○	○	—	—

Notes (1) Applicable to flange type (MX, MXG, MXH20, MXHG20, LRX, LRXG, LRXH20, LRXHG20).
(2) Not applicable to stainless steel made products.
(3) Not applicable to low profile flange type (MXN, MXNG, MXNL) and low profile block type (MXNS, MXNSG, MXNSL).
(4) Applicable to LRX series.

Table 7.2 Application of special specifications (Interchangeable specification, single track rail)

Special specification	Supplemental code	Size											
		10	12	15	20	25	30	35	45	55	65	85	100
Specified rail mounting hole positions	/E	—	○	○	○	○	○	○	○	○	○	—	—
Caps for rail mounting holes	/F	—	○	○	○	○	○	○	○	○	○	—	—
Half pitch mounting holes for track rail	/HP	—	○	○	○	○	○	○	○	○	○	—	—
Female threads for bellows (1)	/J	—	×	○	○	○	○	○	○	○	○	—	—
Black chrome surface treatment	/LR	—	○	○	○	○	○	○	○	○	○	—	—
Without track rail mounting bolt	/MN	—	○	○	○	○	○	○	○	○	○	—	—
Butt-jointing track rails	/T	—	○	○	○	○	○	○	○	○	○	—	—

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

Table 7.3 Application of special specifications (Interchangeable specification, assembled set)

Special specification	Supplemental code	Size											
		10	12	15	20	25	30	35	45	55	65	85	100
Opposite reference surfaces arrangement	/D	—	○	○	○	○	○	○	○	○	○	—	—
Specified rail mounting hole positions	/E	—	○	○	○	○	○	○	○	○	○	—	—
Caps for rail mounting holes	/F	—	○	○	○	○	○	○	○	○	○	—	—
Changed pitch of slide unit middle mounting holes (1)	/GE	—	×	○	○	○	○	○	○	○	○	—	—
Half pitch mounting holes for track rail	/HP	—	○	○	○	○	○	○	○	○	○	—	—
Female threads for bellows (2)	/J○	—	×	○	○	○	○	○	○	○	○	—	—
Black chrome surface treatment	/L○	—	○	○	○	○	○	○	○	○	○	—	—
Fluorine black chrome surface treatment	/LF○	—	○	○	○	○	○	○	○	○	○	—	—
With track rail mounting bolt (3)	/MA	—	○	○	○	○	○	○	○	○	○	—	—
Without track rail mounting bolt (4)	/MN	—	○	○	○	○	○	○	○	○	○	—	—
No end seal (5)	/N	—	○	○	○	○	○	○	○	×	×	—	—
With C-Lube plate (4)	/Q	—	○	○	○	○	○	○	○	○	○	—	—
Butt-jointing track rails	/T	—	○	○	○	○	○	○	○	○	○	—	—
Double end seals	/V○	—	○	○	○	○	○	○	○	○	○	—	—
Specified grease (6)	/Y○	—	○	○	○	○	○	○	○	○	○	—	—
Scrapers	/Z○	—	○	○	○	○	○	○	○	○	○	—	—

Notes (1) Applicable to flange type (MX, MXG, MXH20, MXHG20, LRX, LRXG, LRXH20, LRXHG20).
(2) Not applicable to stainless steel made products.
(3) Applicable to MX series.
(4) Applicable to LRX series.
(5) Not applicable to low profile flange type (MXN, MXNG, MXNL) and low profile block type (MXNS, MXNSG, MXNSL).
(6) MX series is applicable only to /YCG.

Table 7.4 Application of special specifications (Non-interchangeable specification)

Special specification	Supplemental code	Size											
		10	12	15	20	25	30	35	45	55	65	85	100
Butt-jointing track rails	/A	○	○	○	○	○	○	○	○	○	○	○	○
Opposite reference surfaces arrangement	/D	○	○	○	○	○	○	○	○	○	○	○	○
Specified rail mounting hole positions	/E	○	○	○	○	○	○	○	○	○	○	○	○
Caps for rail mounting holes	/F	×	○	○	○	○	○	○	○	○	○	○	○
Changed pitch of slide unit middle mounting holes (1)	/GE	×	×	○	○	○	○	○	○	○	○	×	○
Half pitch mounting holes for track rail	/HP	×	○	○	○	○	○	○	○	○	○	○	×
Inspection sheet	/I	○	○	○	○	○	○	○	○	○	○	○	○
Female threads for bellows	/J○	×	×	○	○	○	○	○	○	○	○	○	×
Black chrome surface treatment	/L○	×	○	○	○	○	○	○	○	○	○	×	×
Fluorine black chrome surface treatment	/LF○	×	○	○	○	○	○	○	○	○	○	×	×
With track rail mounting bolt (2)	/MA	○	○	○	○	○	○	○	○	○	○	×	×
Without track rail mounting bolt (3)	/MN	○	○	○	○	○	○	○	○	○	○	○	○
No end seal (4)	/N	○	○	○	○	○	○	○	○	×	×	×	×
Rail cover plate for track rail (3)	/PS	×	×	×	×	×	×	○	○	○	×	×	×
With C-Lube plate (3)	/Q	○	○	○	○	○	○	○	○	○	○	○	×
C-Wiper (2) (5)	/RC○	×	×	×	○	○	○	○	○	○	○	×	×
Inner seal (2)	/UR	×	×	×	○	○	○	○	○	○	○	×	×
Double end seals	/V○	×	○	○	○	○	○	○	○	○	○	○	○
A group of multiple assembled sets (6)	/W○	○	○	○	○	○	○	○	○	○	○	○	×
Specified grease (7)	/Y○	○	○	○	○	○	○	○	○	○	○	○	○
Scrapers	/Z○	×	○	○	○	○	○	○	○	○	○	○	○

Notes (1) Applicable to flange type (MX, MXG, MXH20, MXHG20, LRX, LRXG, LRXH20, LRXHG20).
(2) Applicable to MX series.
(3) Applicable to LRX series.
(4) Not applicable to low profile flange type (MXN, MXNG, MXNL) and low profile block type (MXNS, MXNSG, MXNSL).
(5) Since inner seal and scraper are mounted simultaneously, indication of "/UR" or "/Z" is not necessary.
(6) LRX85, LRXG85, LRXL85, LRXD85, LRXDG85, LRXDL85 are applicable only to High (H) and Precision (P).
(7) MX series is applicable only to /YCG.

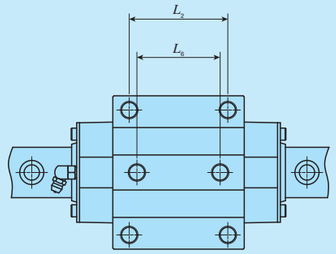
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

Table 8 Combination of supplemental codes

	A	D	E	F	GE	HP	I	J	L	LF	MA	MN	N	PS	Q	RC	T	UR	V	W	Y
D	○																				
E	–	–																			
F	○	○	○																		
GE	○	○	○	○																	
HP	–	○	–	○	○																
I	○	○	○	○	○	○															
J	○	○	○	○	○	–	○														
L	○	○	○	○	○	○	○	○													
LF	○	○	○	○	○	○	○	○	–												
MA	○	○	○	○	○	○	○	○	○	○											
MN	○	○	○	○	○	○	○	○	○	○	–										
N	○	○	○	–	○	○	○	–	○	○	○	○									
PS	–	○	○	–	○	○	○	○	–	–	–	○	–								
Q	○	○	○	○	○	○	○	–	○	○	–	○	○	○							
RC	–	○	○	○	○	○	○	–	○	○	○	–	–	–	–						
T	–	○	○	○	○	○	–	–	○	○	○	○	○	–	○	–					
UR	–	○	○	○	○	○	○	○	○	○	○	–	–	–	–	–	–				
V	○	○	○	○	○	○	○	●	○	○	○	○	–	○	–	○	○	○			
W	○	○	–	○	○	○	○	○	○	○	○	○	○	○	○	○	–	○	○		
Y	○	○	○	○	○	○	○	○	○	○	○	○	○	○	–	–	○	–	○	○	
Z	○	○	○	○	○	○	○	●	○	○	○	○	–	–	–	–	○	○	●	○	○

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.

Table 9 Pitch of slide unit middle mounting holes (Supplemental code /GE)

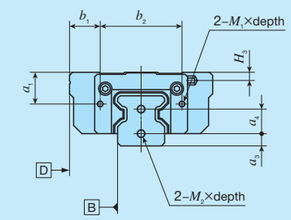


unit: mm

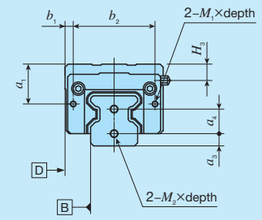
Size	L_2	L_6
15	30	26
20	40	35
25	45	40
30	52	44
35	62	52
45	80	60
55	95	70
65	110	82
100	200	150

Table 10.1 Dimension of female threads for bellows (Supplemental code Single unit: /J Assembled set: /J /JJ)

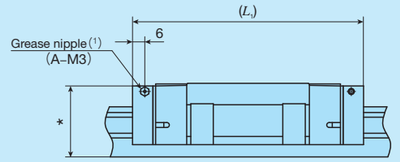
Size 15, 20, 25 and 30



Flange type



Block type
Compact block type



unit: mm

Identification number		Slide unit						Track rail		
		a_1	b_1	b_2	M_1×depth	L_1 (2)	H_3	a_3	a_4	M_2×depth
MXC 15	LRXC 15	10.5	10.5	26	M3×6	67	1	4	8	M3×6
MX 15	LRX 15					83				
MXG 15	LRXG 15					99				
MXDC 15	LRXDC 15	14.5	4			67	5			
MXD 15	LRXD 15					83				
MXDG 15	LRXDG 15					99				
MXSC 15	LRXSC 15	10.5				67	1			
MXS 15	LRXS 15					83				
MXSG 15	LRXSG 15					99				
MXC 20 (3)	LRXC 20 (3)	12	13.5	36	M3×6	81	2	5	10	M4×8
MX 20 (3)	LRX 20 (3)					101				
MXG 20 (3)	LRXG 20 (3)					121				
MXL 20 (3)	–					143				
MXDC 20	LRXDC 20	16	4			81	6			
MXD 20	LRXD 20					101				
MXDG 20	LRXDG 20					121				
MXDL 20	–					143				
MXSC 20	LRXSC 20	12				81	2			
MXS 20	LRXS 20					101				
MXSG 20	LRXSG 20					121				
MXSL 20	–					143				
MXC 25	LRXC 25	15.5	15	40	M3×6	89	4	6	12	M4×8
MX 25	LRX 25					113				
MXG 25	LRXG 25					128				
MXL 25	–					152				
MXDC 25	LRXDC 25	19.5	4			89	8			
MXD 25	LRXD 25					113				
MXDG 25	LRXDG 25					128				
MXDL 25	–					152				
MXSC 25	LRXSC 25	15.5				89	4			
MXS 25	LRXS 25					113				
MXSG 25	LRXSG 25					128				
MXSL 25	–					152				
MXC 30	LRXC 30	18.5	20	50	M3×6	100	4.8	7	14	M4×8
MX 30	LRX 30					128				
MXG 30	LRXG 30					149				
MXL 30	–					177				
MXDC 30	LRXDC 30	21.5	5			100	7.8			
MXD 30	LRXD 30					128				
MXDG 30	LRXDG 30					149				
MXDL 30	–					177				
MXSC 30	LRXSC 30	18.5				100	4.8			
MXS 30	LRXS 30					128				
MXSG 30	LRXSG 30					149				
MXSL 30	–					177				

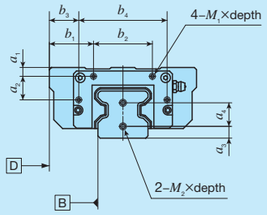
Notes (1) The specification and mounting positions of grease nipple are different from those of the standard specification product. Note that grease nipple for size 30 models is A-M4 type. For grease nipple specification, see Table 14.1 on page Ⅲ—23.
(2) Dimensions of the specification that female threads for bellows are fitted to both ends of the slide unit are indicated.
(3) This is also applicable to the models allowing mounting from bottom (MXHC20, MXH20, MXHG20, MXHL20, LRXHC20, LRXH20 and LRXHG20).

Remarks 1. Size 15 and 20 series of flange type and compact block type will have the dimension with * mark higher than the dimensions of assembly H. For details of dimensions, contact IKO.
2. This is also applicable to stainless steel type models of the same size.

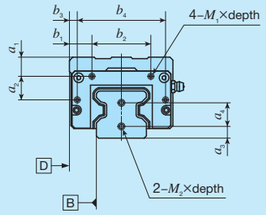
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

Table 10.2 Dimension of female threads for bellows (Supplemental code Single unit: /J Assembled set: /J /JJ)

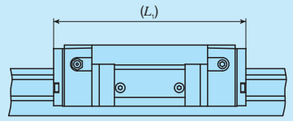
Size 35, 45, 55, 65 and 85



Flange type



Block type
Compact block type

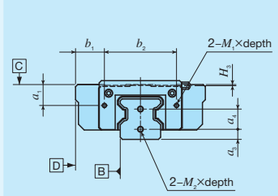


unit: mm

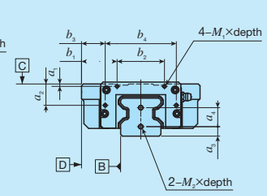
Identification number		Slide unit								Track rail		
		a_1	a_2	b_1	b_2	b_3	b_4	M_1×depth	L_1(1)	a_3	a_4	M_2×depth
MXC 35	LRXC 35	6	16	30	40	20	60	M3× 6	99	8	16	M4× 8
MX 35	LRX 35								131			
MXG 35	LRXG 35								159			
MXL 35	–								191			
MXDC 35	LRXDC 35	13		15		5			99			
MXD 35	LRXD 35								131			
MXDG 35	LRXDG 35								159			
MXDL 35	–								191			
MXS 35	–	6							131			
MXSG 35	–								159			
MXC 45	LRXC 45	7	21	35	50	23	74	M4× 8	123	10	19	M5×10
MX 45	LRX 45								163			
MXG 45	LRXG 45								203			
MXL 45	–								243			
MXDC 45	LRXDC 45	17		18		6			123			
MXD 45	LRXD 45								163			
MXDG 45	LRXDG 45								203			
MXDL 45	–								243			
MXS 45	–	7							163			
MXSG 45	–								203			
MXC 55	LRXC 55	7	27	40	60	26	88	M4× 8	145	10	24	M5×10
MX 55	LRX 55								193			
MXG 55	LRXG 55								247			
MXL 55	–								301			
MXDC 55	LRXDC 55	17		20		6			145			
MXD 55	LRXD 55								193			
MXDG 55	LRXDG 55								247			
MXDL 55	–								301			
MXS 55	–	7							193			
MXSG 55	–								247			
MXC 65	–	8.7	37	47.5	75	31	108	M5×10	191	14	28	M6×12
–	LRXC 65								192			
MX 65	–								255			
–	LRX 65								256			
MXG 65	–								319			
–	LRXG 65								320			
MXL 65	–								391			
MXDC 65	–			25.5		9			191			
–	LRXDC 65								192			
MXD 65	–								255			
–	LRXD 65								256			
MXDG 65	–								319			
–	LRXDG 65								320			
MXDL 65	–								391			
–	LRX 85	15	45	62.5	90	37.5	140	M6×10	334	14.5	38	M6×12
–	LRXG 85								406			
–	LRXL 85								505			
–	LRXD 85	15	45	38	90	13	140	M6×10	334	14.5	38	M6×12
–	LRXDG 85								406			
–	LRXDL 85								505			

Note (1) Dimensions of the specification that female threads for bellows are fitted to both ends of the slide unit are indicated.

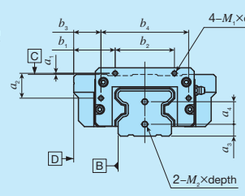
Table 10.3 Dimension of female threads for bellows (Supplemental code Single unit: /J Assembled set: /J /JJ)



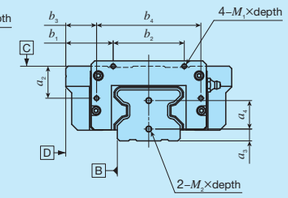
Size 30



Size 35

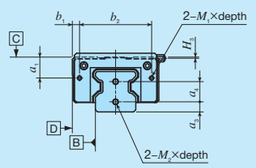


Size 45

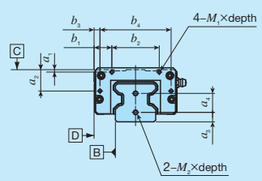


Size 55

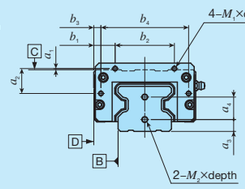
Low profile flange type



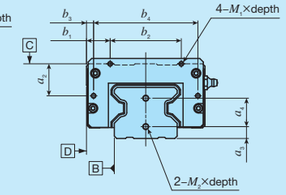
Size 30



Size 35

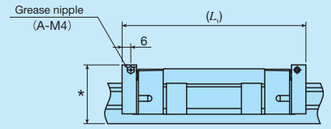


Size 45

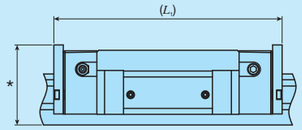


Size 55

Low profile block type



Size 30



Size 35, 45, 55

unit: mm

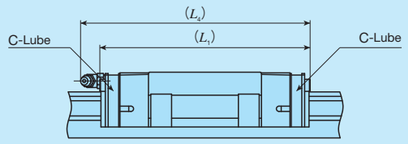
Identification number	Slide unit									Track rail		
	a_1(1)	a_2	b_1	b_2	b_3	b_4	M_1×depth	L_1(2)	H_3	a_3	a_4	M_2×depth
MXN 30	14.5	–	20	50	–	–	M3×6	128	0.8	7	14	M4× 8
MXNG 30								149				
MXNL 30								177				
MXNS 30			5					128				
MXNSG 30								149				
MXNSL 30								177				
MXN 35	2	16	30	40	20	60	M3×6	131	–	8	16	M4× 8
MXNG 35								159				
MXNL 35								191				
MXNS 35			15		5			131				
MXNSG 35								159				
MXNSL 35								191				
MXN 45	1	21	35	50	23	74	M4×8	163	–	10	19	M5×10
MXNG 45								203				
MXNL 45								243				
MXNS 45			18		6			163				
MXNSG 45								203				
MXNSL 45								243				
MXN 55	0	27	40	60	26	88	M4×8	193	–	10	24	M5×10
MXNG 55								247				
MXNL 55								301				
MXNS 55			20		6			193				
MXNSG 55								247				
MXNSL 55								301				

Notes (1) a_1 shows the dimension between mounting surface C and upper female thread.
(2) Dimensions of the specification that female threads for bellows are fitted to both ends of the slide unit are indicated.
Remark: The dimension of * is higher than the dimensions of assembly H. For details of dimensions, contact IKO.

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

Table 11.1 Dimension of slide unit with C-Lube plate (Supplemental code /Q)

Size: 10, 12, 15, 20, 25, 30



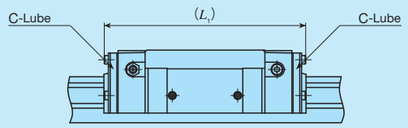
unit: mm

Identification number	L_1	L_4
LRXD 10···SL	44	–
LRXC 12	47	50
LRX 12	57	60
LRXG 12	68	71
LRXC 15	63	64
LRX 15	79	80
LRXG 15	95	96
LRXC 20	76	84
LRX 20	96	104
LRXG 20	116	124
LRXC 25	85	93
LRX 25	109	117
LRXG 25	124	132
LRXC 30	96	107
LRX 30	124	135
LRXG 30	145	156

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 LRX series models of the same type.

Table 11.2 Dimension of slide unit with C-Lube plate (Supplemental code /Q)

Size: 35, 45, 55, 65, 85



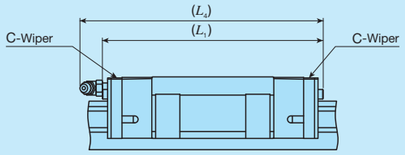
unit: mm

Identification number	L_1
LRXC 35	103
LRX 35	135
LRXG 35	163
LRXC 45	127
LRX 45	167
LRXG 45	207
LRXC 55	149
LRX 55	197
LRXG 55	251
LRXC 65	198
LRX 65	262
LRXG 65	326
LRX 85	341
LRXG 85	413
LRXL 85	512

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 LRX series models of the same type.

Table 12.1 Dimension of slide unit with C-Wiper (Supplemental code Assembled set: /RC /RCC)

Size: 20, 25, 30



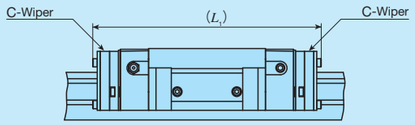
unit: mm

Identification number	L_1	L_4
MXC 20	80	90
MX 20	100	110
MXG 20	120	130
MXL 20	142	153
MXC 25	89	99
MX 25	113	123
MXG 25	128	138
MXL 25	152	162
MXC 30	100	113
MX 30	128	141
MXN 30		138
MXG 30	149	162
MXNG 30		159
MXL 30	177	190
MXNL 30		187

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

Table 12.2 Dimension of slide unit with C-Wiper (Supplemental code Assembled set: /RC /RCC)

Size: 35, 45, 55, 65



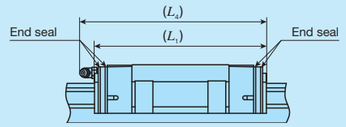
unit: mm

Identification number	L_1
MXC 35	123
MX 35	155
MXG 35	183
MXL 35	215
MXC 45	149
MX 45	189
MXG 45	229
MXL 45	269
MXC 55	172
MX 55	220
MXG 55	274
MXL 55	328
MXC 65	223
MX 65	287
MXG 65	351
MXL 65	423

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

Table 13.1 Dimension of slide unit with double end seals (Supplemental code Single unit: /V Assembled set: /V /VV)

Size: 12, 15, 20, 25, 30



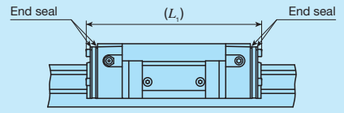
unit: mm

Identification number		L_1	L_4
MXC 12	–	49	52
–	LRXC 12	44	46
MX 12	–	58	61
–	LRX 12	54	57
MXG 12	–	70	72
–	LRXG 12	65	67
MXC 15	LRXC 15	58	59
MX 15	LRX 15	74	75
MXG 15	LRXG 15	90	91
MXC 20	LRXC 20	73	83
MX 20	LRX 20	93	103
MXG 20	LRXG 20	113	123
MXL 20	–	135	145
MXC 25	LRXC 25	83	92
MX 25	LRX 25	107	116
MXG 25	LRXG 25	122	131
MXL 25	–	146	155
MXC 30	LRXC 30	93	106
MX 30	LRX 30	121	134
MXN 30	–		131
MXG 30	LRXG 30	142	155
MXNG 30	–		152
MXL 30	–	170	183
MXNL 30	–		180

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

Size: 35, 45, 55, 65, 85, 100



unit: mm

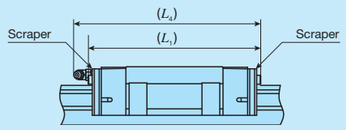
Identification number		L_1
MXC 35	LRXC 35	101
MX 35	LRX 35	133
MXG 35	LRXG 35	161
MXL 35	–	193
MXC 45	LRXC 45	127
MX 45	LRX 45	167
MXG 45	LRXG 45	207
MXL 45	–	247
MXC 55	LRXC 55	149
MX 55	LRX 55	197
MXG 55	LRXG 55	251
MXL 55	–	305
MXC 65	–	192
–	LRXC 65	193
MX 65	–	256
–	LRX 65	257
MXG 65	–	320
–	LRXG 65	321
MXL 65	–	392
–	LRX 85	338
–	LRXG 85	410
–	LRXL 85	509
–	LRXG 100	376

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.

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

Table 14.1 Dimension of slide unit with scrapers (Supplemental code Single unit: /Z Assembled set: /Z /ZZ)

Size: 12, 15, 20, 25, 30



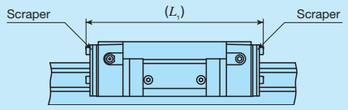
unit: mm

Identification number		L_1	L_4
MXC 12	–	50	53
–	LRXC 12	45	48
MX 12	–	60	63
–	LRX 12	56	58
MXG 12	–	71	74
–	LRXG 12	66	69
MXC 15	LRXC 15	60	61
MX 15	LRX 15	76	77
MXG 15	LRXG 15	92	93
MXC 20	LRXC 20	74	83
MX 20	LRX 20	94	103
MXG 20	LRXG 20	114	123
MXL 20	–	137	146
MXC 25	LRXC 25	85	93
MX 25	LRX 25	109	117
MXG 25	LRXG 25	124	132
MXL 25	–	148	156
MXC 30	LRXC 30	96	107
MX 30	LRX 30	124	135
MXN 30	–		132
MXG 30	LRXG 30	145	156
MXNG 30	–		153
MXL 30	–	173	184
MXNL 30	–		181

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.

Table 14.2 Dimension of slide unit with scrapers (Supplemental code Single unit: /Z Assembled set: /Z /ZZ)

Size: 35, 45, 55, 65, 85, 100



unit: mm

Identification number		L_1
MXC 35	LRXC 35	103
MX 35	LRX 35	135
MXG 35	LRXG 35	163
MXL 35	–	195
MXC 45	LRXC 45	129
MX 45	LRX 45	169
MXG 45	LRXG 45	209
MXL 45	–	249
MXC 55	LRXC 55	151
MX 55	LRX 55	199
MXG 55	LRXG 55	253
MXL 55	–	307
MXC 65	LRXC 65	194
MX 65	LRX 65	258
MXG 65	LRXG 65	322
MXL 65	–	394
–	LRX 85	339
–	LRXG 85	411
–	LRXL 85	510
–	LRXG 100	378

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 MX series and LRX series. Additionally, MX series has C-Lube placed in the recirculation part of cylindrical roller, so that the interval for reapplicating lubricant can be extended and maintenance works such as grease job can be reduced significantly.
MX series and LRX series have grease nipple or oil hole as indicated in Table 15. Supply nozzles fit to each shapes of grease nipple and dedicated supplying equipment (miniature greasers) fit to oil holes are also available. For order of these parts for lubrication, see Table 13 and Table 14.1 on Page Ⅲ—23, and Table 15 on page Ⅲ—24.

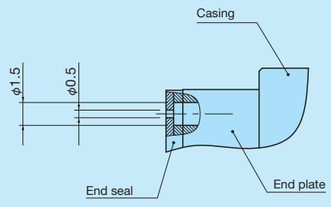


Fig. 2 Oil hole specification of MXD10···SL and LRXD10···SL

Table 15 Parts for lubrication

Size	Grease nipple type (1)	Applicable supply nozzle type	Bolt size of female threads for piping
10	Oil hole	Miniature greaser	–
12	A-M3	A-5120V A-5240V B-5120V B-5240V	–
15(2)	A-M4		M4
20(2)	B-M4	A-8120V B-8120V	
25(2)			
30(3)(4)	B-M6	Grease gun available on the market	M6
35(5)	JIS1 type		
45(6)	JIS2 type		PT1/8
55			
65			
85			
100	A-PT1/4		PT1/4

Notes (1) For grease nipple specification, see Table 14.1 and Table 14.2 in page Ⅲ—23.
(2) The grease nipple when female threads for bellows (supplemental code "/J") is specified is A-M3.
(3) The grease nipple when female threads for bellows (supplemental code "/J") is specified is A-M4.
(4) The grease nipple for MXN30 is B-M4. The grease nipple when female threads for bellows (supplemental code "/J") is specified is A-M4.
(5) The size of the grease nipple mounting thread hole for MXN35 in the slide unit travelling direction is smaller than that of the crosswise direction. When the grease nipple is mounted along the travelling direction, contact IKO.
(6) The grease nipple for MXN45 is JIS type1.
Remark: Stainless steel grease nipple is also available. If needed, please contact IKO.

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

Dust Protection

The slide units of MX series and LRX series are equipped with end seals and under 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.
MX series and LRX 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.
Also the rail cover sheet to cover the mounting hole of track rail (Fig. 3) and track rail mounting from bottom with no mounting hole on the upper surface (Fig. 4) are available. If needed, please contact IKO.

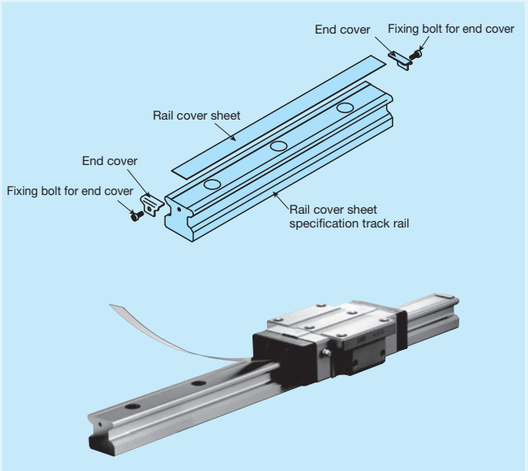


Fig. 3 Rail cover sheet

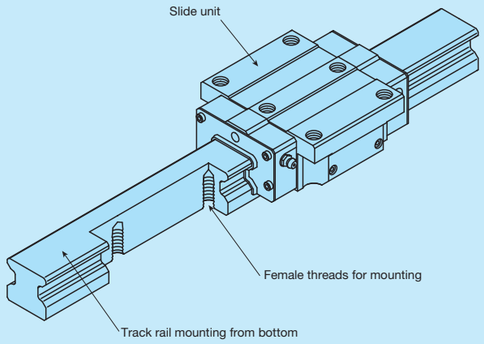


Fig. 4 Track rail mounting from bottom specification

Precaution for Use

❶ Mounting surface, reference mounting surface and typical mounting structure

When mounting the MX series and LRX series, properly align the reference mounting surfaces B and D of the track rail and slide unit with the reference mounting surface of the table anend bed and fix them. (See Fig. 5.)
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 liar 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. 6.)

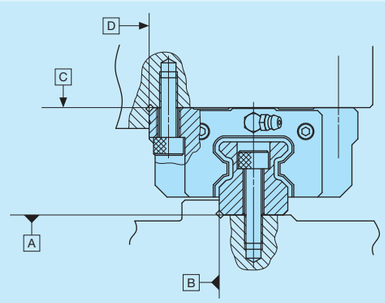


Fig. 5 Reference mounting surface and typical mounting structure

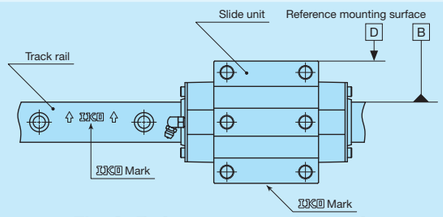


Fig. 6 Reference mounting surface

❷ Fixing the slide unit

Slide unit is also provided with mounting holes in the middle of width direction (see Fig. 7) and some products have the arrangement to receive the applied load in a good balance. When designing machines or equipment, consider the arrangement so that the mounting holes in the middle of slide unit can also be used to fix the units, to use the highest performance out of the product.
To fix the slide unit of compact block type or low profile block type, we recommend to secure the fixing thread depth of Table 16.1and Table 16.2. Also, with the low profile flange type and low profile block type, make sure that the fixing thread depth for the mounting screw in the middle of slide unit width direction should be less than the maximum fixing thread depth of the dimension table.

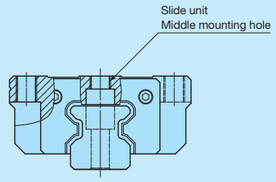


Fig. 7 Slide unit middle mounting hole

Table 16.1 Fixing thread depth for slide unit mounting hole of compact block type unit: mm

Identification number		Recommended minimum fixing thread depth
MXS 15	LRXS 15	4.5
MXS 20	LRXS 20	5.5
MXS 25	LRXS 25	7
MXS 30	LRXS 30	9

Remark: A typical identification number is indicated, but is applied to all compact block types of the same size.

Table 16.2 Fixing thread depth for slide unit mounting hole of low profile block type unit: mm

Identification number	Recommended minimum fixing thread depth
MXNS 30	8
MXNS 35	8.5
MXNS 45	10.5
MXNS 55	14

Remark: A typical identification number is indicated, but is applied to all low profile block types of the same size.

❸ 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. 8, but you may also use it with providing corner radius R as shown in Table 17. Recommended value for the shoulder height and corner radius on the mating side is indicated in Table 17.

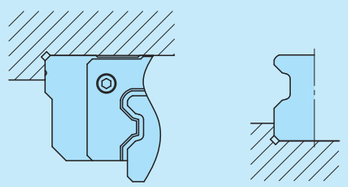
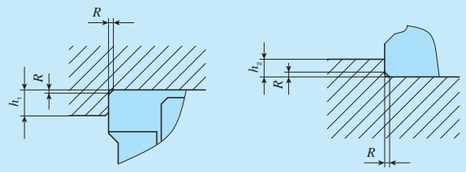


Fig. 8 Corner of the mating reference mounting

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



Mounting part of slide unit　　Mounting part of track rail

unit: mm

Size	Shoulder height of slide unit mounting part h_1	Shoulder height of track rail mounting part h_2	Corner radius R (Maximum)
10	4	1	0.3
12	4	2	0.5
15	4	3	0.5
20	5	4	0.5
25	6	5	1
30	8	5.5	1
35	8	5.5	1
45	8	7	1.5
55	10	8	1.5
65	10	10	1.5
85	14	14	2.5 (Slide unit) 1.5 (Track rail)
100	14	13	2.5

❹ Tightening torque for fixing screw

Typical tightening torque for mounting of the MX series and LRX series to the steel mating member material is indicated in Table 18. 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.

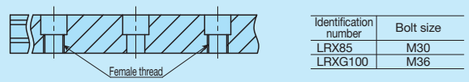
Table 18 Tightening torque for fixing screw

Bolt size	Tightening torque N・m		
	High carbon steel-made screw		Stainless steel-made screw
	Size 12 to 65	Size 85 and 100	
M 2.6×0.45	–	–	0.70
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	–	–
M14 ×2	175	–	–
M16 ×2	268	–	–
M20 ×2.5	522	–	–
M24 ×3	–	749	–
M30 ×3.5	–	1 490	–

Remarks 1. The tightening torque is calculated based on strength division 12.9 for product size 12 to 65, strength division 10.9 for product sizes 85 and 100, and property division A2-70 for stainless steel bolts.
2. It is recommended that the tightening torque of slide unit middle mounting holes for size 15, 20, 25, 30, 35 of flange type (MXC, MX, MXG, MXL, LRXC, LRX, LRXG) is to be 70 to 80% of the values in the table.

❺ Remarks

- As LRX(D)(G,L)85 and LRXG100 are heavyweight products, we recommend the use of eyebolts for transport and assembly. For eyebolt mounting, use the slide unit mounting holes and the track rail female threads for eyebolts (Fig. 9). For the LRXG100 track rail, also use the LRXG100 track rail dedicated eyebolt adapter (Fig. 10).
- LRX(D)(G,L)85 slide unit eyebolts (JIS B1168 M20) and LRX85 track rail dedicated eyebolts (Fig. 11) are not appended. If needed, please contact IKO.



Identification number	Bolt size
LRX85	M30
LRXG100	M36

Track rails of length 1000 mm or more have the female threads at two or more mounting hole positions.

Fig. 9 Track rail female threads for eyebolts

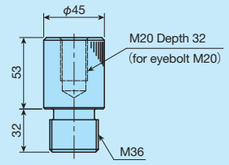


Fig. 10 LRXG100 track rail dedicated eyebolt adapter

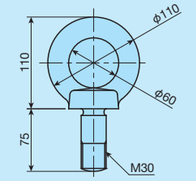


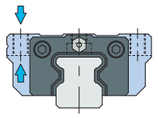
Fig. 11 LRX85 track rail dedicated eyebolt

MX・LRX

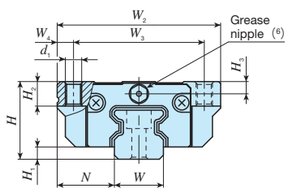
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

Flange type mounting from top / bottom

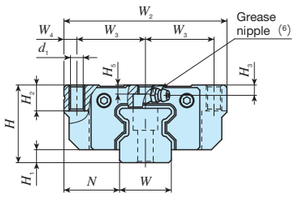
Shape: MX • LRX

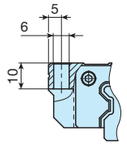


Size						
12	15	20	25	30		
35	45	55	65	85	100	

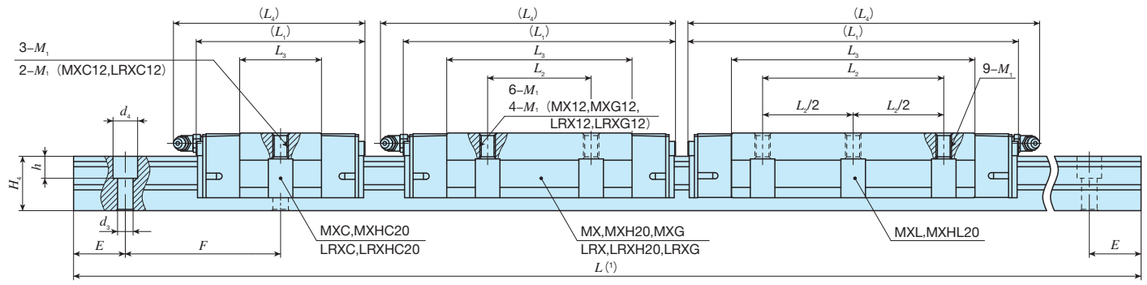


MXC12,LRXC12
MX 12,LRX 12
MXG12,LRXG12



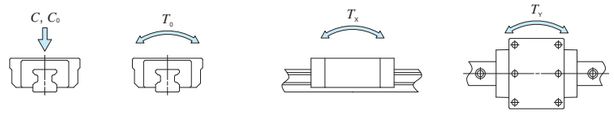


MXHC 20,LRXHC 20
MXH 20,LRXH 20
MXHG 20,LRXHG 20
MXHL 20
Mounting from bottom only (3)



Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm																						Dimensions of track rail mm								Appended mounting bolt for track rail (4)	Basic dynamic load rating (5)	Basic static load rating (5)	Static moment rating (5)		
MX series	LRX 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	M_1		H_2	H_3	H_5	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
MXC 12		○	0.058	0.92	19	3	14	40	32	4	40	–	15.8	44	3.4	M4		6	3	–	12	12	3.5	6	4.5	20	40	M3×12	4 250	6 500	49.4	18.6 196	18.6 196
	LRXC 12	○									37		14.8	40															3 900	6 090	46.3	16.3 170	16.3 170
MX 12		○	0.092								50	15	25.4	53															6 120	10 400	79.1	45.8 371	45.8 371
	LRX 12	○									47		25.3	50															5 890		78.7	45.2 343	45.2 343
MXG 12		○	0.13								61		36.6	64															8 120	15 000	114	92.7 628	92.7 628
	LRXG 12	○									58		35.8	61															7 710	14 600	111	88.6 581	88.6 581
MXC 15	LRXC 15	○	0.13	1.65	24	4	16	47	19	4.5	52	–	24	55	4.4	M5		7	3.5	3	15	16.5	4.5	8	6	30	60	M4×16	7 730	12 000	113	50.6 457	50.6 457
MX 15	LRX 15	○	0.20								68	30	40	71															11 500	20 000	188	136 942	136 942
MXG 15	LRXG 15	○	0.28								84		56	87															14 900	28 000	263	262 1 590	262 1 590
MXC 20 (2)	LRXC 20 (2)	○	0.29	2.73	30	5	21.5	63	26.5	5	66	–	31.6	74	– (2)	M6 (2)		10	4	3.5	20	21	6	9.5	8.5	30	60	M5×20	16 100	26 400	341	150 1 260	150 1 260
MX 20 (2)	LRX 20 (2)	○	0.44								86	40	51.6	94															23 400	42 700	550	379 2 520	379 2 520
MXG 20 (2)	LRXG 20 (2)	○	0.61								106		71.6	114															30 100	58 900	760	713 4 200	713 4 200
MXL 20 (2)	–	–	0.80								128	70	94.1	137															37 200	77 200	996	1 210 6 560	1 210 6 560
MXHC 20 (3)	LRXHC 20 (3)	○	0.29								66	–	31.6	74	–	–													16 100	26 400	341	150 1 260	150 1 260
MXH 20 (3)	LRXH 20 (3)	○	0.44								86	40	51.6	94															23 400	42 700	550	379 2 520	379 2 520
MXHG 20 (3)	LRXHG 20 (3)	○	0.61								106		71.6	114															30 100	58 900	760	713 4 200	713 4 200
MXHL 20 (3)	–	–	0.80								128	70	94.1	137															37 200	77 200	996	1 210 6 560	1 210 6 560

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ−175 and Table 2.3 on page Ⅱ−176 .
(2) The mounting bolt can be mounted only in downward direction.
(3) The mounting bolt can be mounted only in upward direction.
(4) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. In an assembled set of MX series, track rail mounting bolts are not appended.
(5) 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.
(6) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−188.
Remark: A grease nipple mounting thread hole is provided on the right and left end plates respectively.



Example of identification number of assembled set

Model code	Dimensions	Part code			Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MX	G	15	C2	R360	T1	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MX	Flange type mounting from top / bottom
LRX	
MXH	Flange type mounting from bottom
LRXH	

② Length of slide unit

C	Short
No symbol	Standard
G	Long
L	Extra long

③ Size: 12, 15, 20

④ Number of slide unit (2)

⑤ Length of track rail (360 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

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

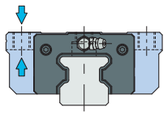
⑨ Special specification: A, D, E, F, GE, HP, I , J, L LF, MA, MN, N, Q, RC, T UR, V, W, Y, Z

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

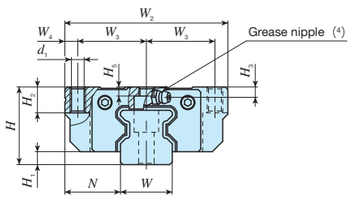
IKO C-Lube Linear Roller Way Super MX

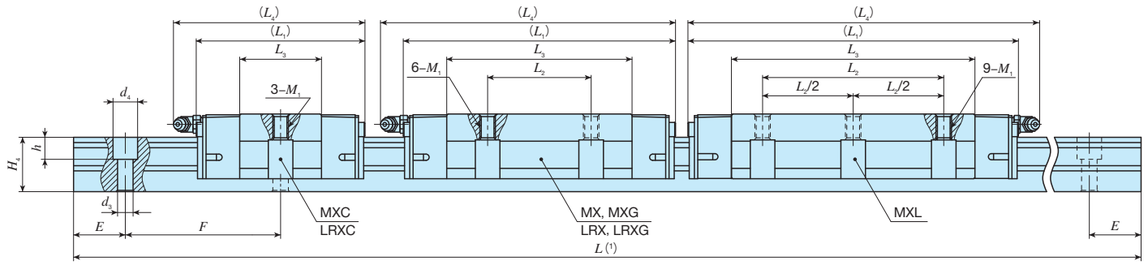
Flange type mounting from top / bottom

Shape: **MX • LRX**



Size: 12 15 20 25 30 / 35 45 55 65 85 100

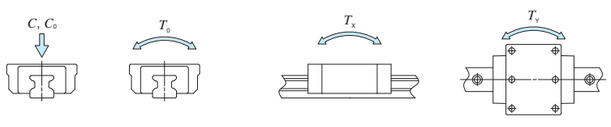




Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm																								Dimensions of track rail mm							Appended mounting bolt for track rail (2)	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
MX series	LRX 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	M_1		H_2	H_3	H_5	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
MXC 25	LRXC 25	○	0.44	3.59	36	6	23.5	70	28.5	6.5	74	–	36	83	7	M 8		10	5	5	23	24.5	7	11	9	30	60													M6×25	21 600	33 800	500	213 1 810	213 1 810
MX 25	LRX 25	○	0.67								98	45	60	107																										32 100	56 300	833	573 3 800	573 3 800
MXG 25	LRXG 25	○	0.84								113		75	122																										38 200	70 300	1 040	885 5 380	885 5 380
MXL 25	–	–	1.08								137	70	99	146																										47 400	92 800	1 370	1 530 8 480	1 530 8 480
MXC 30	LRXC 30	○	0.78	5.01	42	6.5	31	90	36	9	85	–	42.4	95	8.5	M10		10	6.5	5.5	28	28	9	14	12	40	80													M8×28	29 200	44 600	808	329 2 740	329 2 740
MX 30	LRX 30	○	1.20								113	52	70.4	123																										43 400	74 400	1 350	883 5 780	883 5 780
MXG 30	LRXG 30	○	1.58								134		91.4	144																										53 200	96 700	1 750	1 470 8 740	1 470 8 740
MXL 30	–	–	2.03								162	80	119.4	172																										65 600	126 000	2 290	2 500 13 600	2 500 13 600

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ－175 and Table 2.3 on page Ⅱ－176 .
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. In an assembled set of MX series, track rail mounting bolts are not appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ－188.

Remark: A grease nipple mounting thread hole is provided on the right and left end plates respectively.



Example of identification number of assembled set

Model code		Dimensions	Part code		Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MX	G	25	C2	R840	T1	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MX	Flange type mounting from top / bottom
LRX	

② Length of slide unit

C	Short
No symbol	Standard
G	Long
L	Extra long

③ Size: 25, 30

④ Number of slide unit (2)

⑤ Length of track rail (840 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

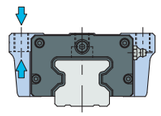
No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

⑨ Special specification: A, D, E, F, GE, HP, Ⅰ, J, L, LF, MA, MN, N, Q, RC, T, UR, V, W, Y, Z

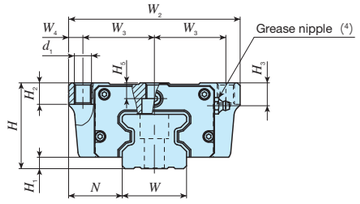
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

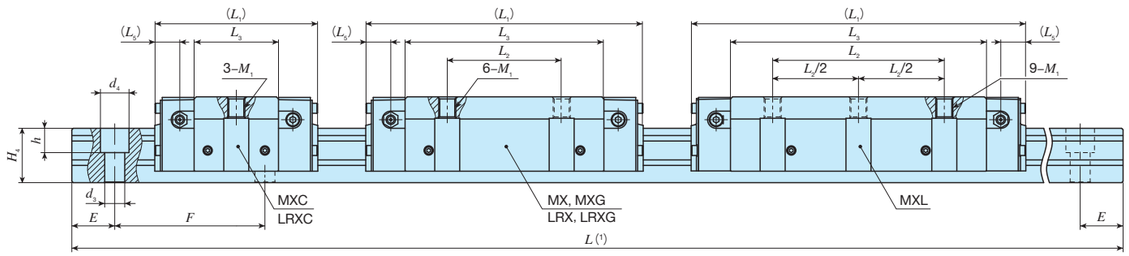
Flange type mounting from top / bottom

Shape: **MX • LRX**



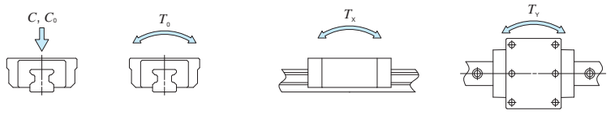
Size: 12, 15, 20, 25, 30, **35**, **45**, 55, 65, 85, 100





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm																Dimensions of track rail mm							Appended mounting bolt for track rail (2)	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
MX series	LRX 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_5	d_1	M_1		H_2	H_3	H_5	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
MXC 35		○	1.13	6.88	48	6.5	33	100	41	9	92	–	46.6	12.7	8.5	M10		13	13	7	34	32	9	14	12	40	80	M 8×35	39 500	60 000	1 300	506 3 950	506 3 950
	LRXC 35	○												12.5																			
MX 35		○	1.76								124	62	78.6	12.7															58 700	100 000	2 170	1 360 8 470	1 360 8 470
	LRX 35	○												12.5																			
MXG 35		○	2.41								152		106.6	12.7															74 200	135 000	2 930	2 440 13 800	2 440 13 800
	LRXG 35	○												12.5																			
MXL 35	–	–	3.00								184	100	138.6	12.7															90 800	175 000	3 800	4 060 21 300	4 060 21 300
MXC 45	LRXC 45	○	2.11	10.8	60	8	37.5	120	50	10	114	–	59	17.5	10.5	M12		15	16	11	45	38	14	20	17	52.5	105	M12×40	64 100	95 600	2 660	1 010 7 800	1 010 7 800
MX 45	LRX 45	○	3.26								154	80	99																95 400	159 000	4 430	2 700 16 800	2 700 16 800
MXG 45	LRXG 45	○	4.60								194		139																124 000	223 000	6 200	5 220 29 000	5 220 29 000
MXL 45	–	–	5.66								234	120	179																151 000	287 000	7 980	8 560 44 400	8 560 44 400

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ−175 and Table 2.3 on page Ⅱ−176 .
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. In an assembled set of MX series, track rail mounting bolts are not appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−188.
Remark: Three grease nipple mounting thread holes are provided on the right and left end plates respectively.



Example of identification number of assembled set

Model code	Dimensions	Part code			Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MX	G	35	C2	R1200	T2	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MX	Flange type mounting from top / bottom
LRX	

② Length of slide unit

C	Short
No symbol	Standard
G	Long
L	Extra long

③ Size: 35, 45

④ Number of slide unit (2)

⑤ Length of track rail (1,200 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

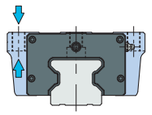
No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

⑨ Special specification: A, D, E, F, GE, HP, I , J, L, LF, MA, MN, N, PS, Q, RC, T, UR, V, W, Y, Z

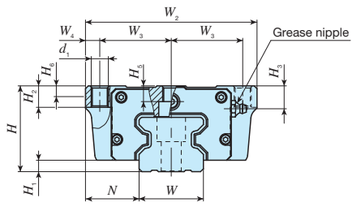
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1mm=0.03937inch

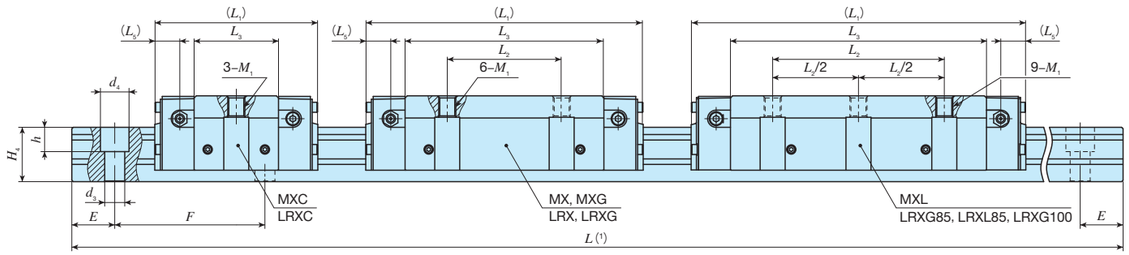
Flange type mounting from top / bottom

Shape: MX • LRX



Size: 12 15 20 25 30 35 45 55 65 85 100

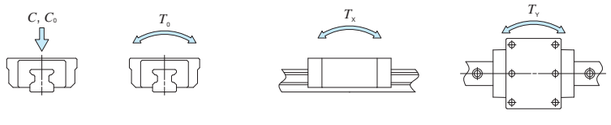




Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm																			Dimensions of track rail mm							Appended mounting bolt for track rail (2)	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
MX series	LRX 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_5	d_1	M_1		H_2	H_3	H_5	H_6	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
MXC 55	LRXC 55	○	3.49	14.1	70	9	43.5	140	58	12	136	–	72	20	12.5	M14		17	16	14	–	53	43	16	23	20	60	120	M14×45	99 700	149 000	4 830	1 880 14 400	1 880 14 400
MX 55	LRX 55	○	5.42								184	95	120																148 000	248 000	8 040	5 040 31 100	5 040 31 100
MXG 55	LRXG 55	○	7.93								238		174																198 000	359 000	11 700	10 400 57 000	10 400 57 000
MXL 55	–	–	10.1								292	150	228																244 000	470 000	15 300	17 700 90 700	17 700 90 700
MXC 65		○	7.18	22.6	90	12	53.5	170	71	14	180	–	95	26.3	14.5	M16		23	18	18.5	–	63	56	18	26	22	75	150	M16×60	174 000	249 000	9 790	4 200 32 000	4 200 32 000
	LRXC 65	○									181			26.6																		4 200 32 200	4 200 32 200
MX 65		○	11.5								244	110	159	26.3															260 000	415 000	16 300	11 300 69 000	11 300 69 000
	LRX 65	○									245			26.6																		11 300 69 300	11 300 69 300
MXG 65		○	16.0								308		223	26.3															337 000	581 000	22 800	21 800 120 000	21 800 120 000
	LRXG 65	○									309			26.6																				
MXL 65	–	–	20.8								380	200	295	26.3															419 000	768 000	30 200	37 600 193 000	37 600 193 000
–	LRX 85	–	25.4	36.7	110	16	65	215	92.5	15	323	140	232	27.5	17.8	M20		35	22	25.5	20	85	67	26.5	39	30	90	180	M24×70	440 000	753 000	38 900	29 500 163 000	29 500 163 000
–	LRXG 85	–	32.7								395	200	304																542 000	985 000	50 800	50 000 257 000	50 000 257 000
–	LRXL 85	–	44.0								494	280	403																674 000	1 300 000	67 300	87 000 422 000	87 000 422 000
–	LRXG 100*	–	43.0	43.2	120	15	75	250	110	15	362	200	262	29.7	17.8	M20		35	30	30.5	–	100	70	33	48	36	75	150	M30×80	498 000	821 000	49 700	35 800 199 000	35 800 199 000

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ−175 and Table 2.3 on page Ⅱ−176 .
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. In an assembled set of MX series, track rail mounting bolts are not appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.

Remarks 1. The specifications of grease nipple are shown in Table 15 on page Ⅱ−188.
2. Three grease nipple mounting thread holes are provided on the right and left end plates respectively.
3. The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

Model code	Dimensions	Part code		Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MX	G	55	C2	R3000	T2	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MX	Flange type mounting from top / bottom
LRX	

② Length of slide unit

C	Short
No symbol	Standard
G	Long
L	Extra long

③ Size: 55, 65, 85, 100

④ Number of slide unit (2)

⑤ Length of track rail (3,000 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

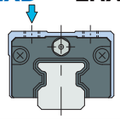
No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

⑨ Special specification: A, D, E, F, GE, HP, I , J, L LF, MA, MN, PS, Q, RC T, UR, V, W, Y, Z

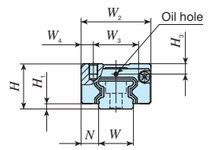
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

Block type mounting from top

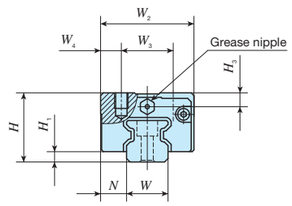
Shape: MXD • LRXD



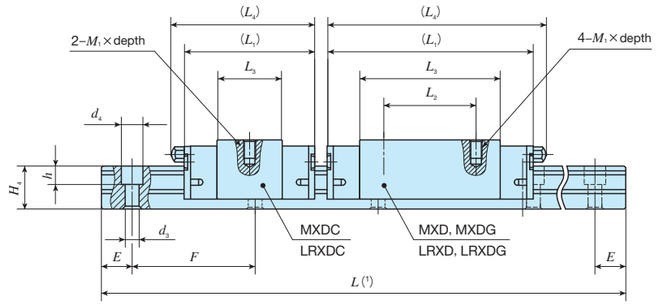
Size: 10 12 15 20 25 30 35 45 55 65 85



MXD 10
LRXD10



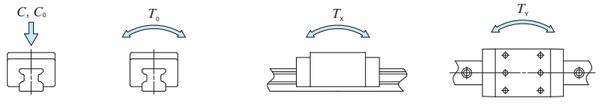
MXDC12, LRXDC12
MXD 12, LRXD 12
MXDG12, LRXDG12



Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm									Dimensions of track rail mm								Appended mounting bolt for track rail (2)	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
MX series	LRX 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
MXD 10···SL		–	0.028	0.48	13	1.5	5	20	13	3.5	36	12	20.8	–	M2.6×3		3	10	8	3.5	6	3.5	12.5	25	M3×10	3 200	5 880	37.9	20.9 / 147	20.9 / 147
	LRXD 10···SL	–									35																		20.9 / 142	20.9 / 142
MXDC 12		○	0.045	0.92	20	3	7.5	27	15	6	40	–	15.8	44	M4 ×4.5		4	12	12	3.5	6	4.5	20	40	M3×12	4 250	6 500	49.4	18.6 / 196	18.6 / 196
	LRXDC 12	○									37		14.8	40												3 900	6 090	46.3	16.3 / 170	16.3 / 170
–	LRXDC 12···SL	○																												
MXD 12		○	0.072								50	15	25.4	53												6 120	10 400	79.1	45.8 / 371	45.8 / 371
	LRXD 12	○									47		25.3	50												5 890		78.7	45.2 / 343	45.2 / 343
MXD 12···SL		○									50		25.4	53												6 120		79.1	45.8 / 371	45.8 / 371
	LRXD 12···SL	○									47		25.3	50												5 890		78.7	45.2 / 343	45.2 / 343
MXDG 12		○	0.097								61		36.6	64												8 120	15 000	114	92.7 / 628	92.7 / 628
	LRXDG 12	○									58		35.8	61												7 710	14 600	111	88.6 / 581	88.6 / 581
–	LRXDG 12···SL	○																												

Notes (1) Track rail lengths L are shown in Tables 2.1 and 2.2 on page Ⅱ−175 and Tables 2.3 and 2.4 on page Ⅱ−176.
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
In an assembled set of MX series, track rail mounting bolts are not appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.

Remarks 1. The specification of oil hole is shown in Fig. 2 on page Ⅱ−188.
2. The specifications of grease nipple are shown in Table 15 on page Ⅱ−188.
3. For size 12 series, a grease nipple mounting thread hole is provided on the right and left end plates respectively.



Example of identification number of assembled set

Model code	Dimensions	Part code			Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXD	G	12	C2	R560	—	T1	P	—	/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① Model
MXD	Block type mounting from top
LRXD	

② Length of slide unit
C	Short
No symbol	Standard
G	Long

③ Size
10, 12

④ Number of slide unit (2)

⑤ Length of track rail (560 mm)

⑥ Material type
No symbol	High carbon steel made
SL	Stainless steel made

⑦ Preload amount
No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑧ Accuracy class
H	High
P	Precision
SP	Super precision
UP	Ultra precision

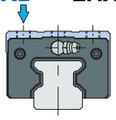
⑨ Interchangeable
No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

⑩ Special specification
A, D, E, F, HP, Ⅰ, L, LF
MA, MN, N, Q, T, V, W
Y, Z

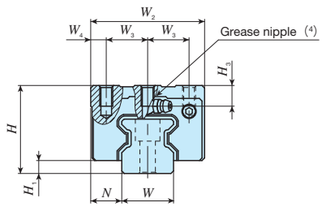
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

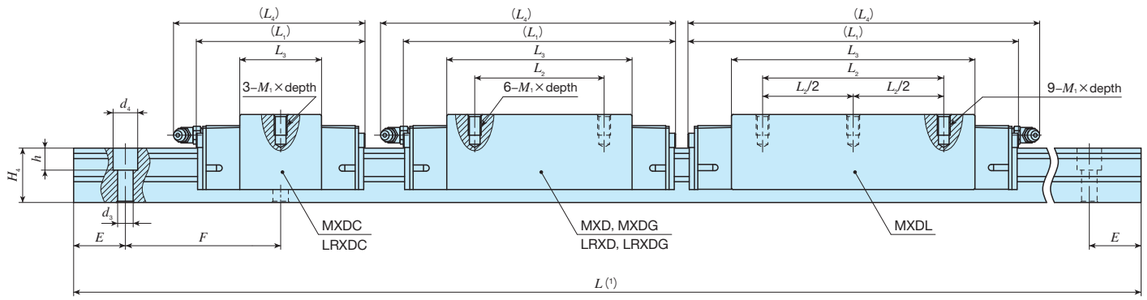
Block type mounting from top

Shape: **MXD • LRXD**



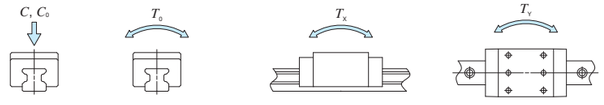
Size						
10	12	15	20	25	30
35	45	55	65	85	





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm								Dimensions of track rail mm							Appended mounting bolt for track rail (2)	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
MX series	LRX 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
MXDC 15	LRXDC 15	○	0.13	1.65	28	4	9.5	34	13	4	52	–	24	55	M4×8	7.5	15	16.5	4.5	8	6	30	60	M4×16	7 730	12 000	113	50.6 457	50.6 457
–	LRXDC 15···SL	○																											
MXD 15	LRXD 15	○	0.19								68	26	40	71											11 500	20 000	188	136 942	136 942
MXD 15···SL	LRXD 15···SL	○																											
MXDG 15	LRXDG 15	○	0.26								84		56	87											14 900	28 000	263	262 1 590	262 1 590
–	LRXDG 15···SL	○																											
MXDC 20	LRXDC 20	○	0.25	2.73	34	5	12	44	16	6	66	–	31.6	74	M5×8	8	20	21	6	9.5	8.5	30	60	M5×20	16 100	26 400	341	150 1 260	150 1 260
–	LRXDC 20···SL	○																											
MXD 20	LRXD 20	○	0.38								86	36	51.6	94											23 400	42 700	550	379 2 520	379 2 520
MXD 20···SL	LRXD 20···SL	○																											
MXDG 20	LRXDG 20	○	0.52								106	50	71.6	114											30 100	58 900	760	713 4 200	713 4 200
–	LRXDG 20···SL	○																											
MXDL 20	–	–	0.67								128	70	94.1	137											37 200	77 200	996	1 210 6 560	1 210 6 560

Notes (1) Track rail lengths L are shown in Tables 2.1 and 2.2 on page Ⅱ−175 and Tables 2.3 and 2.4 on page Ⅱ−176.
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
In an assembled set of MX series, track rail mounting bolts are not appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−188.
Remark: A grease nipple mounting thread hole is provided on the right and left end plates respectively.



Example of identification number of assembled set

Model code	Dimensions	Part code			Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXD	G	20	C2	R840	—	T1	P	—	/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① Model

MXD	Block type mounting from top
LRXD	

② Length of slide unit

C	Short
No symbol	Standard
G	Long
L	Extra long

③ Size: 15, 20

④ Number of slide unit (2)

⑤ Length of track rail (840 mm)

⑥ Material type

No symbol	High carbon steel made
SL	Stainless steel made

⑦ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑧ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑨ Interchangeable

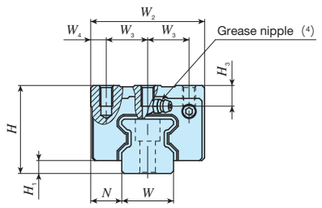
No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

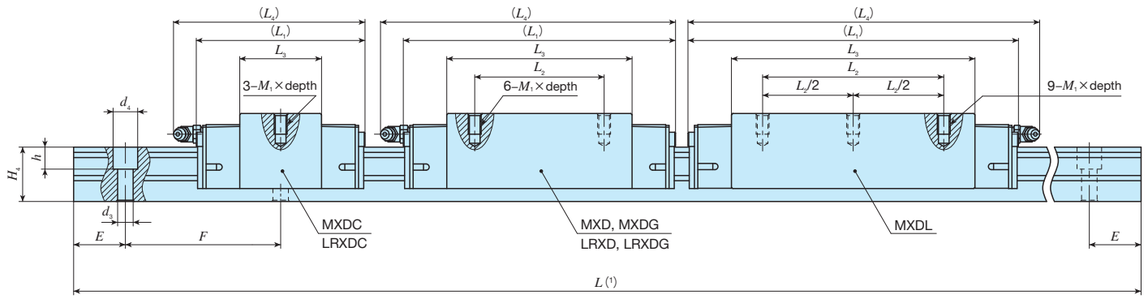
⑩ Special specification: A, D, E, F, HP, Ⅰ, J, L, LF MA, MN, N, Q, RC, T, UR V, W, Y, Z

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

Block type mounting from top

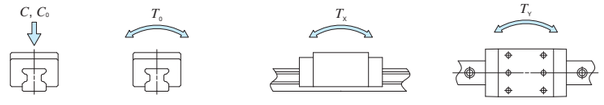
Shape	MXD • LRXD
Size	10 12 15 20 25 30 35 45 55 65 85





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm								Dimensions of track rail mm							Appended mounting bolt for track rail (2)	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
MX series	LRX 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
MXDC 25	LRXDC 25	○	0.36	3.59	40	6	12.5	48	17.5	6.5	74	–	36	83	M6×12	9	23	24.5	7	11	9	30	60	M6×25	21 600	33 800	500	213 1 810	213 1 810
–	LRXDC 25···SL	○																											
MXD 25	LRXD 25	○	0.55								98	35	60	107											32 100	56 300	833	573 3 800	573 3 800
MXD 25···SL	LRXD 25···SL	○																											
MXDG 25	LRXDG 25	○	0.68								113	50	75	122											38 200	70 300	1 040	885 5 380	885 5 380
–	LRXDG 25···SL	○																											
MXDL 25	–	–	0.88								137	70	99	146											47 400	92 800	1 370	1 530 8 480	1 530 8 480
MXDC 30	LRXDC 30	○	0.60	5.01	45	6.5	16	60	20	10	85	–	42.4	95	M8×12	9.5	28	28	9	14	12	40	80	M8×28	29 200	44 600	808	329 2 740	329 2 740
–	LRXDC 30···SL	○																											
MXD 30	LRXD 30	○	0.92								113	40	70.4	123											43 400	74 400	1 350	883 5 780	883 5 780
MXD 30···SL	LRXD 30···SL	○																											
MXDG 30	LRXDG 30	○	1.18								134	60	91.4	144											53 200	96 700	1 750	1 470 8 740	1 470 8 740
–	LRXDG 30···SL	○																											
MXDL 30	–	–	1.52								162	80	119.4	172											65 600	126 000	2 290	2 500 13 600	2 500 13 600

Notes (1) Track rail lengths L are shown in Tables 2.1 and 2.2 on page Ⅱ－175 and Tables 2.3 and 2.4 on page Ⅱ－176.
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
In an assembled set of MX series, track rail mounting bolts are not appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ－188.
Remark: A grease nipple mounting thread hole is provided on the right and left end plates respectively.



Example of identification number of assembled set

Model code	Dimensions	Part code			Material code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXD	G	25	C2	R840	—	T1	P	—	/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① Model	
MXD	Block type mounting from top
LRXD	

② Length of slide unit	
C	Short
No symbol	Standard
G	Long
L	Extra long

③ Size
25, 30

④ Number of slide unit (2)

⑤ Length of track rail (840 mm)

⑥ Material type	
No symbol	High carbon steel made
SL	Stainless steel made

⑦ Preload amount	
No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑧ Accuracy class	
H	High
P	Precision
SP	Super precision
UP	Ultra precision

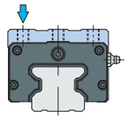
⑨ Interchangeable	
No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

⑩ Special specification
A, D, E, F, HP, Ⅰ, J, L, LF MA, MN, N, Q, RC, T, UR V, W, Y, Z

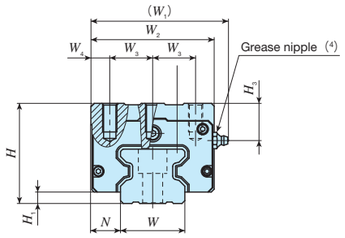
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

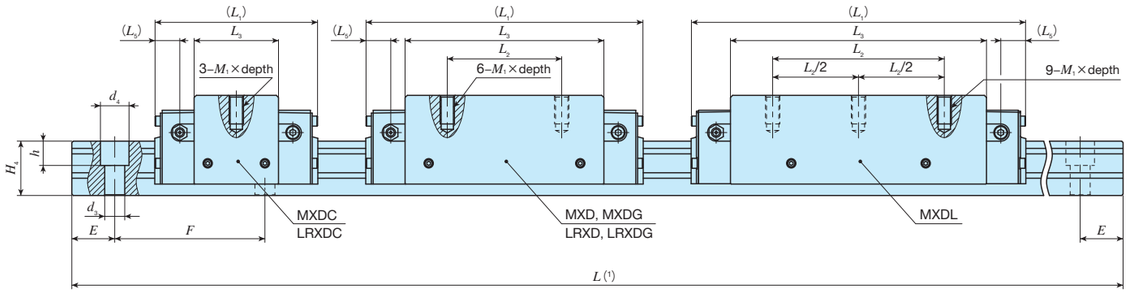
Block type mounting from top

Shape: **MXD • LRXD**



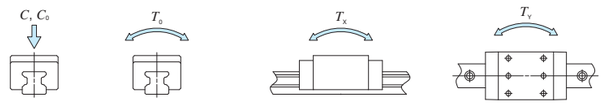
Size: 10 | 12 | 15 | 20 | 25 | 30 | 35 | 45 | 55 | 65 | 85





Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm										Dimensions of track rail mm							Appended mounting bolt for track rail (2)	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
MX series	LRX series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H_1	N	W_1	W_2	W_3	W_4	L_1	L_2	L_3	L_5	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
MXDC 35		○	0.97	6.88	55	6.5	18	78	70	25	10	92	–	46.6	12.7	M 8×16		20	34	32	9	14	12	40	80	M 8×35	39 500	60 000	1 300	506 3 950	506 3 950
	LRXDC 35	○													12.5															
MXD 35		○	1.52									124	50	78.6	12.7												58 700	100 000	2 170	1 360 8 470	1 360 8 470
	LRXD 35	○													12.5															
MXDG 35		○	2.02									152	72	106.6	12.7												74 200	135 000	2 930	2 440 13 800	2 440 13 800
	LRXDG 35	○													12.5															
MXDL 35	–	–	2.55									184	100	138.6	12.7												90 800	175 000	3 800	4 060 21 300	4 060 21 300
MXDC 45	LRXDC 45	○	2.01	10.8	70	8	20.5	96	86	30	13	114	–	59	17.5	M10×20		26	45	38	14	20	17	52.5	105	M12×40	64 100	95 600	2 660	1 010 7 800	1 010 7 800
MXD 45	LRXD 45	○	3.13									154	60	99													95 400	159 000	4 430	2 700 16 800	2 700 16 800
MXDG 45	LRXDG 45	○	4.29									194	80	139													124 000	223 000	6 200	5 220 29 000	5 220 29 000
MXDL 45	–	–	5.36									234	120	179													151 000	287 000	7 980	8 560 44 400	8 560 44 400

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ−175 and Table 2.3 on page Ⅱ−176 .
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. In an assembled set of MX series, track rail mounting bolts are not appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−188.
Remark: Three grease nipple mounting thread holes are provided on the right and left end plates respectively.



Example of identification number of assembled set

Model code	Dimensions	Part code			Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXD	G	35	C2	R1200	T2	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MXD	Block type mounting from top
LRXD	

② Length of slide unit

C	Short
No symbol	Standard
G	Long
L	Extra long

③ Size: 35, 45

④ Number of slide unit (2)

⑤ Length of track rail (1,200 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

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

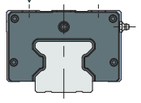
⑨ Special specification: A, D, E, F, HP, Ⅰ, J, L, LF, MA, MN, N, PS, Q, RC, T, UR, V, W, Y, Z

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

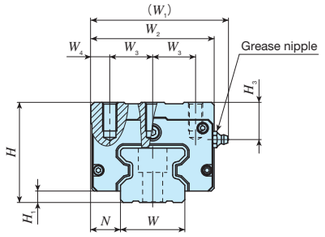
IKO C-Lube Linear Roller Way Super MX

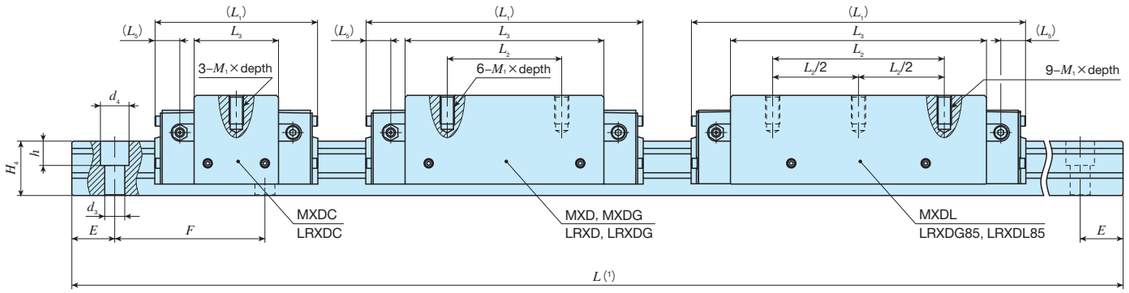
Block type mounting from top

Shape: **MXD • LRXD**



Size: 10 12 15 20 25 30 / 35 45 55 65 85

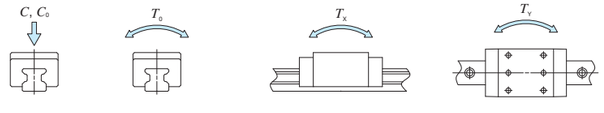




Identification number: MX series	Identification number: LRX series (No C-Lube)	Interchangeable	Mass (Ref.): Slide unit kg	Mass (Ref.): Track rail kg/m	Dimensions of assembly mm: H	H_1	N	Dimensions of slide unit mm: W_1	W_2	W_3	W_4	L_1	L_2	L_3	L_5	M_1×depth	H_3	Dimensions of track rail mm: W	H_4	d_3	d_4	h	E	F	Appended mounting bolt for track rail (2): Bolt size× ℓ	Basic dynamic load rating (3): C N	Basic static load rating (3): C_0 N	Static moment rating (3): T_0 N·m	T_X N·m	T_Y N·m
MXDC 55	LRXDC 55	○	3.17	14.1	80	9	23.5	110	100	37.5	12.5	136	–	72	20	M12×25	26	53	43	16	23	20	60	120	M14×45	99 700	149 000	4 830	1 880 14 400	1 880 14 400
MXD 55	LRXD 55	○	4.97									184	75	120												148 000	248 000	8 040	5 040 31 100	5 040 31 100
MXDG 55	LRXDG 55	○	7.06									238	95	174												198 000	359 000	11 700	10 400 57 000	10 400 57 000
MXDL 55	–	–	9.08									292	150	228												244 000	470 000	15 300	17 700 90 700	17 700 90 700
MXDC 65		○	5.52	22.6	90	12	31.5	135	126	38	25	180	–	95	26.3	M16×25	18	63	56	18	26	22	75	150	M16×60	174 000	249 000	9 790	4 200 32 000	4 200 32 000
	LRXDC 65	○										181			26.6														4 200 32 200	4 200 32 200
MXD 65		○	8.70									244	70	159	26.3											260 000	415 000	16 300	11 300 69 000	11 300 69 000
	LRXD 65	○										245			26.6														11 300 69 300	11 300 69 300
MXDG 65		○	12.1									308	120	223	26.3											337 000	581 000	22 800	21 800 120 000	21 800 120 000
	LRXDG 65	○										309			26.6															
MXDL 65	–	–	15.5									380	200	295	26.3											419 000	768 000	30 200	37 600 193 000	37 600 193 000
	LRXD 85	–	19.9	36.7	110	16	40.5	175	166	60	23	323	140	232	27.5	M20×30	22	85	67	26.5	39	30	90	180	M24×70	440 000	753 000	38 900	29 500 163 000	29 500 163 000
	LRXDG 85	–	25.5									395	200	304												542 000	985 000	50 800	50 000 257 000	50 000 257 000
	LRXDL 85	–	34.1									494	280	403												674 000	1 300 000	67 300	87 000 422 000	87 000 422 000

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ−175 and Table 2.3 on page Ⅱ−176 .
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. In an assembled set of MX series, track rail mounting bolts are not appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.

Remarks 1. The specifications of grease nipple are shown in Table 15 on page Ⅱ−188.
2. Three grease nipple mounting thread holes are provided on the right and left end plates respectively.



Example of identification number of assembled set

Model code	Dimensions	Part code	Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXD	G	55	C2	R3000	T2	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MXD	Block type mounting from top
LRXD	

② Length of slide unit

C	Short
No symbol	Standard
G	Long
L	Extra long

③ Size: 55, 65, 85

④ Number of slide unit (2)

⑤ Length of track rail (3,000 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

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

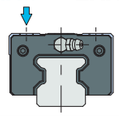
⑨ Special specification: A, D, E, F, HP, Ⅰ, J, L, LF, MA, MN, PS, Q, RC, T, UR, V, W, Y, Z

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

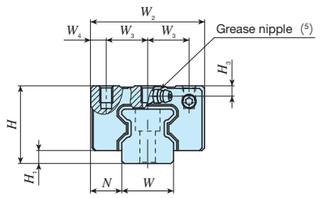
IKO C-Lube Linear Roller Way Super MX

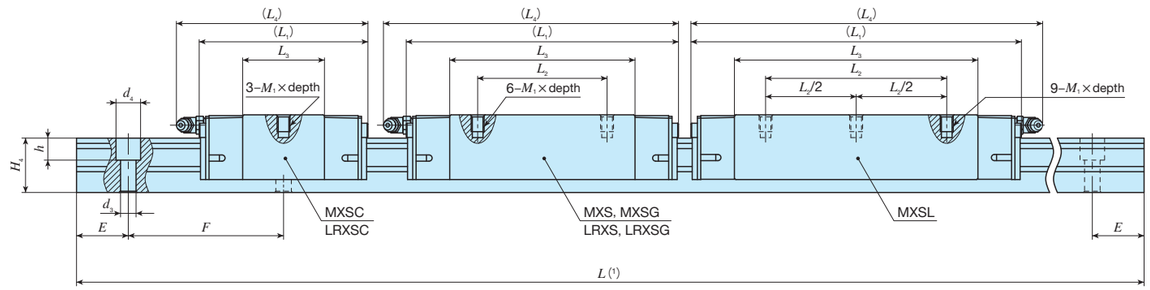
Compact block type mounting from top

Shape	MXS • LRXS



Size	15	20	25	30
	35	45	55	

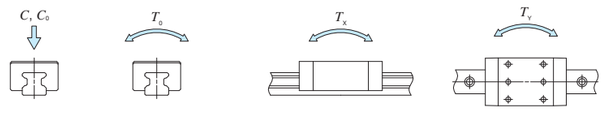




Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm									Dimensions of track rail mm							Appended mounting bolt for track rail (3)	Basic dynamic load rating (4)	Basic static load rating (4)	Static moment rating (4)		
MX series	LRX series (No 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 (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
MXSC 15	LRXSC 15	○	0.099	1.65	24	4	9.5	34	13	4	52	–	24	55	M4× 5.5	3.5	15	16.5	4.5	8	6	30	60	M4×16	7 730	12 000	113	50.6 457	50.6 457
MXS 15	LRXS 15	○	0.15								68	26	40	71											11 500	20 000	188	136 942	136 942
MXSG 15	LRXSG 15	○	0.21								84		56	87											14 900	28 000	263	262 1 590	262 1 590
MXSC 20	LRXSC 20	○	0.21	2.73	30	5	12	44	16	6	66	–	31.6	74	M5× 6.5	4	20	21	6	9.5	8.5	30	60	M5×20	16 100	26 400	341	150 1 260	150 1 260
MXS 20	LRXS 20	○	0.31								86	36	51.6	94											23 400	42 700	550	379 2 520	379 2 520
MXSG 20	LRXSG 20	○	0.42								106	50	71.6	114											30 100	58 900	760	713 4 200	713 4 200
MXSL 20	–	–	0.55								128	70	94.1	137											37 200	77 200	996	1 210 6 560	1 210 6 560
MXSC 25	LRXSC 25	○	0.30	3.59	36	6	12.5	48	17.5	6.5	74	–	36	83	M6× 9	5	23	24.5	7	11	9	30	60	M6×25	21 600	33 800	500	213 1 810	213 1 810
MXS 25	LRXS 25	○	0.47								98	35	60	107											32 100	56 300	833	573 3 800	573 3 800
MXSG 25	LRXSG 25	○	0.57								113	50	75	122											38 200	70 300	1 040	885 5 380	885 5 380
MXSL 25	–	–	0.74								137	70	99	146											47 400	92 800	1 370	1 530 8 480	1 530 8 480
MXSC 30	LRXSC 30	○	0.54	5.01	42	6.5	16	60	20	10	85	–	42.4	95	M8×11	6.5	28	28	9	14	12	40	80	M8×28	29 200	44 600	808	329 2 740	329 2 740
MXS 30	LRXS 30	○	0.83								113	40	70.4	123											43 400	74 400	1 350	883 5 780	883 5 780
MXSG 30	LRXSG 30	○	1.05								134	60	91.4	144											53 200	96 700	1 750	1 470 8 740	1 470 8 740
MXSL 30	–	–	1.37								162	80	119.4	172											65 600	126 000	2 290	2 500 13 600	2 500 13 600

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ−175 and Table 2.3 on page Ⅱ−176 .
(2) For the fixing thread depth of the slide unit mounting hole, the value indicated in Table 16.1 on page Ⅱ−190 is recommended.
(3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. In an assembled set of MX series, track rail mounting bolts are not appended.
(4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
(5) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−188.

Remark: A grease nipple mounting thread hole is provided on the right and left end plates respectively.



Example of identification number of assembled set

Model code	Dimensions	Part code		Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXS	G	25	C2	R840	T1	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MXS	Compact block type mounting from top
LRXS	

② Length of slide unit

C	Short
No symbol	Standard
G	Long
L	Extra long

③ Size: 15, 20, 25, 30

④ Number of slide unit (2)

⑤ Length of track rail (840 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

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

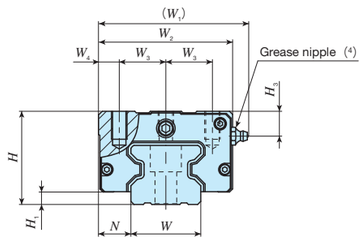
⑨ Special specification: A, D, E, F, HP, Ⅰ, J, L, LF, MA, MN, N, Q, RC, T, UR, V, W, Y, Z

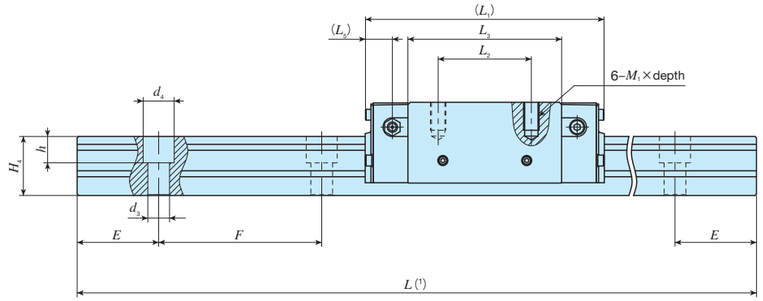
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

IKO C-Lube Linear Roller Way Super MX

Compact block type mounting from top

Shape	MXS
Size	15 · 20 · 25 · 30 · **35** · **45** · **55**

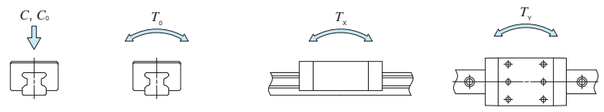




Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm										Dimensions of track rail mm								Mounting bolt for track rail (2)	Basic dynamic load rating (3)	Basic static load rating (3)	Static moment rating (3)		
MX series	LRX series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H_1	N	W_1	W_2	W_3	W_4	L_1	L_2	L_3	L_5	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
MXS 35	–	○	1.22	6.88	48	6.5	18	78	70	25	10	124	50	78.6	12.7	M 8×12		13	34	32	9	14	12	40	80	M 8×35	58 700	100 000	2 170	1 360 8 470	1 360 8 470
MXSG 35	–	○	1.61									152	72	106.6													74 200	135 000	2 930	2 440 13 800	2 440 13 800
MXS 45	–	○	2.37	10.8	60	8	20.5	96	86	30	13	154	60	99	17.5	M10×18		16	45	38	14	20	17	52.5	105	M12×40	95 400	159 000	4 430	2 700 16 800	2 700 16 800
MXSG 45	–	○	3.27									194	80	139													124 000	223 000	6 200	5 220 29 000	5 220 29 000
MXS 55	–	○	3.96	14.1	70	9	23.5	110	100	37.5	12.5	184	75	120	20	M12×20		16	53	43	16	23	20	60	120	M14×45	148 000	248 000	8 040	5 040 31 100	5 040 31 100
MXSG 55	–	○	5.63									238	95	174													198 000	359 000	11 700	10 400 57 000	10 400 57 000

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ−175 and Table 2.3 on page Ⅱ−176 .
(2) Track rail mounting bolts are not appended.
(3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−188.

Remark: Three grease nipple mounting thread holes are provided on the right and left end plates respectively.



MX • LRX

Example of identification number of assembled set

Model code		Dimensions	Part code		Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXS	G	45	C2	R1470	T1	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MXS	Compact block type mounting from top

② Length of slide unit

No symbol	Standard
G	Long

③ Size: 35, 45, 55

④ Number of slide unit (2)

⑤ Length of track rail (1,470 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

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

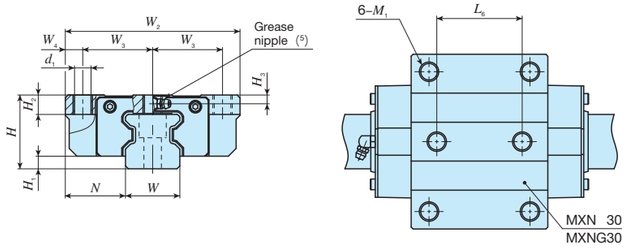
⑨ Special specification: A, D, E, F, HP, I, J, L, LF, MA, N, RC, T, UR, V, W, Z

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

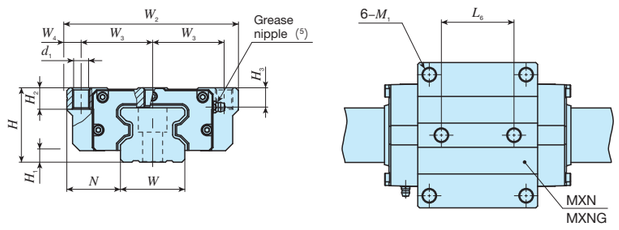
Low profile flange type mounting from top

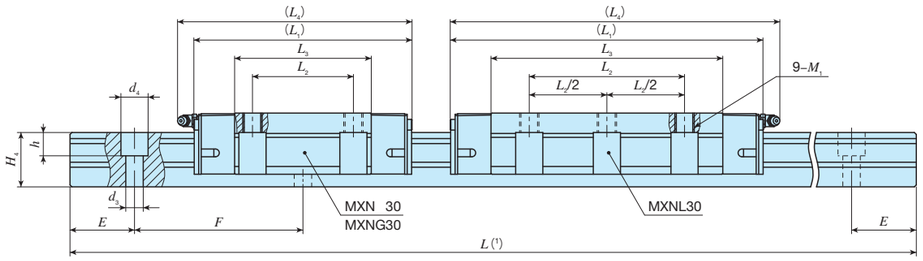
Shape	MXN			
Size	30	35	45	55

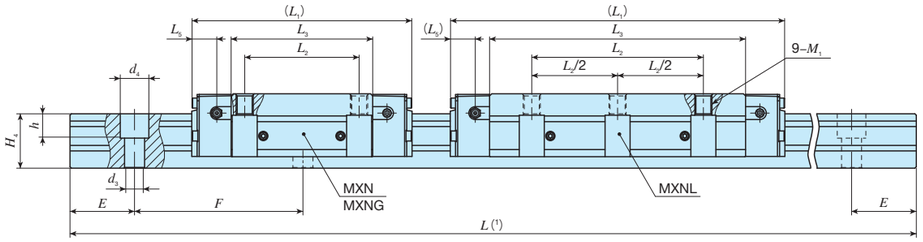
MXN 30
MXNG 30
MXNL 30



MXN
MXNG
MXNL



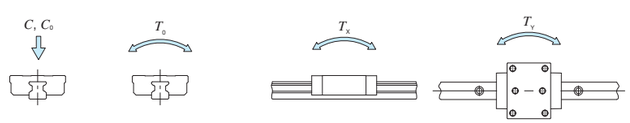




Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm												Dimensions of track rail mm							Mounting bolt for track rail (3)	Basic dynamic load rating (4)	Basic static load rating (4)	Static moment rating (4)		
MX series	LRX series (No C-Lube)		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	L_5	L_6	d_1	M_1	Maximum fixing thread depth (2)	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
MXN 30	–	○	1.05	5.01	38	6.5	31	90	36	9	113	52	70.4	121	–	44	8.5	M10	9	10	4.5	28	28	9	14	12	40	80	M 8×28	43 400	74 400	1 350	883 5 780	883 5 780
MXNG 30	–	○	1.38								134		91.4	142															53 200	96 700	1 750	1 470 8 740	1 470 8 740
MXNL 30	–	–	1.75								162	80	119.4	170		80													65 600	126 000	2 290	2 500 13 600	2 500 13 600
MXN 35	–	○	1.55	6.88	44	6.5	33	100	41	9	124	62	78.6	–	12.7	52	8.5	M10	11	13	11	34	32	9	14	12	40	80	M 8×35	58 700	100 000	2 170	1 360 8 470	1 360 8 470
MXNG 35	–	○	2.13								152		106.6																74 200	135 000	2 930	2 440 13 800	2 440 13 800
MXNL 35	–	–	2.71								184	100	138.6			100													90 800	175 000	3 800	4 060 21 300	4 060 21 300
MXN 45	–	○	2.58	10.8	52	8	37.5	120	50	10	154	80	99	–	17.5	60	10.5	M12	13	15	13.5	45	38	14	20	17	52.5	105	M12×40	95 400	159 000	4 430	2 700 16 800	2 700 16 800
MXNG 45	–	○	3.73								194		139																124 000	223 000	6 200	5 220 29 000	5 220 29 000
MXNL 45	–	–	4.72								234	120	179			120													151 000	287 000	7 980	8 560 44 400	8 560 44 400
MXN 55	–	○	4.61	14.1	63	9	43.5	140	58	12	184	95	120	–	20	70	12.5	M14	19	17	16	53	43	16	23	20	60	120	M14×45	148 000	248 000	8 040	5 040 31 100	5 040 31 100
MXNG 55	–	○	6.94								238		174																198 000	359 000	11 700	10 400 57 000	10 400 57 000
MXNL 55	–	–	8.87								292	150	228			150													244 000	470 000	15 300	17 700 90 700	17 700 90 700

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ−175 and Table 2.3 on page Ⅱ−176 .
(2) The fixing thread depth of mounting screw in the middle of the way in the slide unit width direction should be less than the maximum fixing thread depth.
(3) Track rail mounting bolts are not appended.
(4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_x, T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
(5) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−188.

Remarks 1. For size 30 series, a grease nipple mounting thread hole is provided on the right and left end plates respectively.
2. For size 35, 45, and 55 series, three grease nipple mounting thread holes are provided on the right and left end plates respectively. However, the size of thread hole for size 35 in the slide unit travelling direction is smaller than that of the crosswise direction. When the grease nipple is mounted along the travelling direction, contact IKO.



Example of identification number of assembled set

Model code		Dimensions	Part code		Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXN	G	55	C2	R3000	T2	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MXN	Low profile flange type mounting from top

② Length of slide unit

No symbol	Standard
G	Long
L	Extra long

③ Size: 30, 35, 45, 55

④ Number of slide unit (2)

⑤ Length of track rail (3,000 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

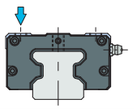
No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

⑨ Special specification: A, D, E, F, HP, I, J, L, LF MA, RC, T, UR, V, W, Z

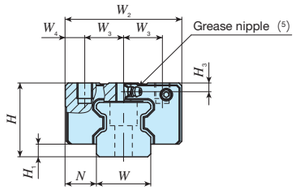
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

Low profile block type mounting from top

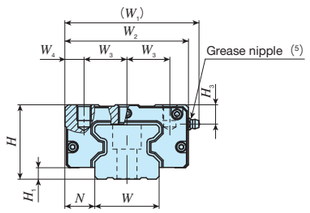
Shape	MXNS			
Size	30	35	45	55

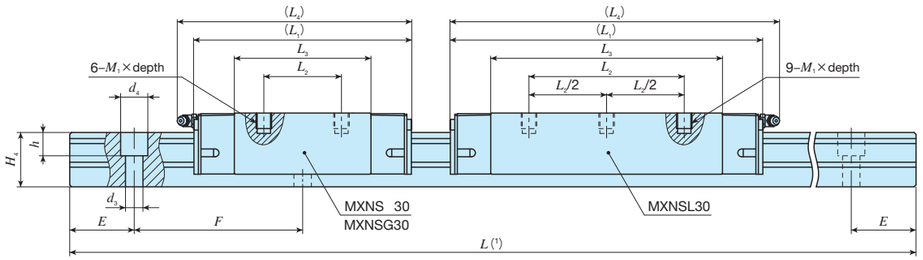


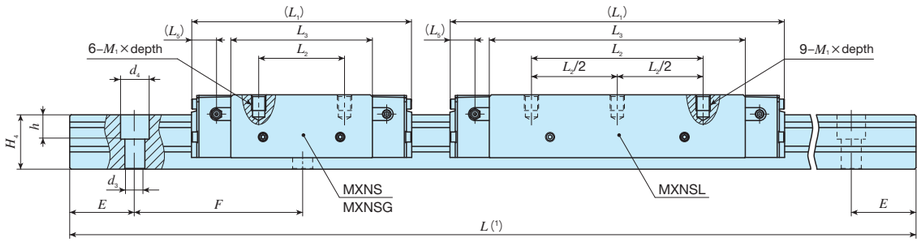
MXNS 30
MXNSG 30
MXNSL 30



MXNS
MXNSG
MXNSL



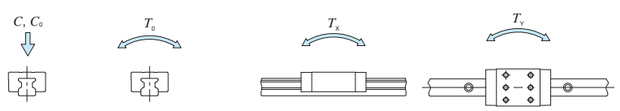




Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm												Dimensions of track rail mm								Mounting bolt for track rail (3)	Basic dynamic load rating (4)	Basic static load rating (4)	Static moment rating (4)		
MX series	LRX series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H_1	N	W_1	W_2	W_3	W_4	L_1	L_2	L_3	L_4	L_5	M_1×depth (2)		Maximum fixing thread depth (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
MXNS 30	–	○	0.70									113	40	70.4	121																883	883
MXNSG 30	–	○	0.90	5.01	38	6.5	16	–	60	20	10	134	60	91.4	142	–	M 8× 8		9	4.5	28	28	9	14	12	40	80	M 8×28	43 400 53 200	74 400 96 700	1 350 1 750	5 780 1 470 8 740	5 780 1 470 8 740
MXNSL 30	–	–	1.14									162	80	119.4	170														65 600	126 000	2 290	2 500 13 600	2 500 136 000
MXNS 35	–	○	1.08									124	50	78.6															58 700	100 000	2 170	1 360 8 470	1 360 8 470
MXNSG 35	–	○	1.42	6.88	44	6.5	18	78	70	25	10	152	72	106.6	–	12.7	M 8× 9		11	11	34	32	9	14	12	40	80	M 8×35	74 200	135 000	2 930	2 440 13 800	2 440 13 800
MXNSL 35	–	–	1.81									184	100	138.6															90 800	175 000	3 800	4 060 21 300	4 060 21 300
MXNS 45	–	○	1.84									154	60	99															95 400	159 000	4 430	2 700 16 800	2 700 16 800
MXNSG 45	–	○	2.58	10.8	52	8	20.5	94	86	30	13	194	80	139	–	17.5	M10×11		13	13.5	45	38	14	20	17	52.5	105	M12×40	124 000	223 000	6 200	5 220 29 000	5 220 29 000
MXNSL 45	–	–	3.29									234	120	179															151 000	287 000	7 980	8 560 44 400	8 560 44 400
MXNS 55	–	○	3.31									184	75	120															148 000	248 000	8 040	5 040 31 100	5 040 31 100
MXNSG 55	–	○	4.83	14.1	63	9	23.5	110	100	37.5	12.5	238	95	174	–	20	M12×15		19	16	53	43	16	23	20	60	120	M14×45	198 000	359 000	11 700	10 400 57 000	10 400 57 000
MXNSL 55	–	–	6.28									292	150	228															244 000	470 000	15 300	17 700 90 700	17 700 90 700

Notes (1) Track rail lengths L are shown in Table 2.1 on page Ⅱ−175 and Table 2.3 on page Ⅱ−176 .
(2) For the fixing thread depth of the slide unit mounting hole, the value indicated in Table 16.2 on page Ⅱ−190 is recommended. The fixing thread depth of mounting screw in the middle of the way in the slide unit width direction should be less than the maximum fixing thread depth.
(3) Track rail mounting bolts are not appended.
(4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
(5) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page Ⅱ−188.

Remarks 1. For size 30 series, a grease nipple mounting thread hole is provided on the right and left end plates respectively.
2. For size 35, 45, and 55 series, three grease nipple mounting thread holes are provided on the right and left end plates respectively. However, the size of thread hole for size 35 in the slide unit travelling direction is smaller than that of the crosswise direction. When the grease nipple is mounted along the travelling direction, contact IKO.



Example of identification number of assembled set

Model code		Dimensions	Part code		Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXNS	G	55	C2	R3000	T2	P		/F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Model

MXNS	Low profile block type mounting from top

② Length of slide unit

No symbol	Standard
G	Long
L	Extra long

③ Size: 30, 35, 45, 55

④ Number of slide unit (2)

⑤ Length of track rail (3,000 mm)

⑥ Preload amount

No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

⑦ Accuracy class

H	High
P	Precision
SP	Super precision
UP	Ultra precision

⑧ Interchangeable

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

⑨ Special specification: A, D, E, F, HP, I, J, L, LF MA, RC, T, UR, V, W, Z

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