

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



C-Lube Linear Roller Way Super MX

MX



long term maintenance free supported!

The aquamarine end plate is the symbol of maintenance free.

Track rail

Slide unit

End plate

Casing

Cylindrical roller

Retaining plate

Grease nipple

Under seal

C-Lube

End seal

Linear Roller Way Super X
LRX

Points

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.

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.

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.

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.

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.

Non-interchangeable specification									
1	2	3	4	5	6	7	8	9	10
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									
3 Size	Dimensions Page II - 173								
4 Number of slide units	Part code Page II - 174								
5 Length of track rail									
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.

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
Standard : No symbol
Long : G
Extra long : L

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

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
Stainless steel made ⁽¹⁾ : SL

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

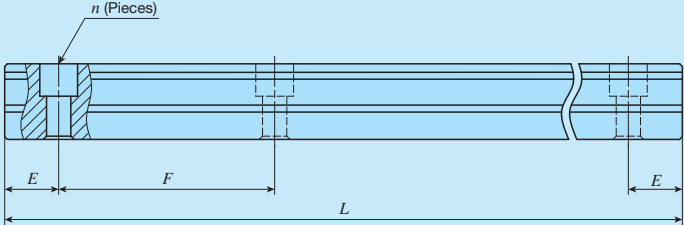
Table 1.2 Models and sizes of MX and LRX series

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	○	○	○	○	○	○	—	—	—	—	—	—
		Long	LRXD...SL	○	○	○	○	○	○	—	—	—	—	—	—
			LRXDG...SL	—	○	○	○	○	○	—	—	—	—	—	—

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

MX · LRX

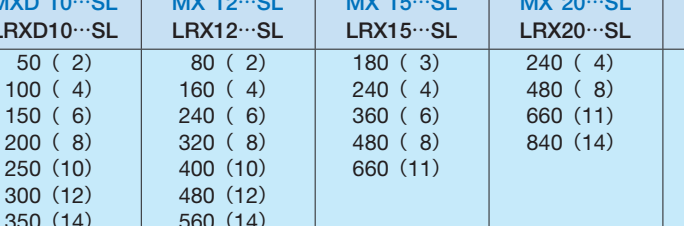
Table 2.1 Standard and maximum length of high carbon steel track rail



Identification number	MX 12 LRX12	MX 15 LRX15	MX 20 LRX20	MX 25 LRX25	MX 30 LRX30	MX 35 LRX35
Item						
Standard length L (n)	80 (2)	180 (3)	240 (4)	240 (4)	480 (6)	480 (6)
	160 (4)	240 (4)	480 (8)	480 (8)	640 (8)	640 (8)
	240 (6)	360 (6)	660 (11)	660 (11)	800 (10)	800 (10)
	320 (8)	480 (8)	840 (14)	840 (14)	1 040 (13)	1 040 (13)
	400 (10)	660 (11)	1 020 (17)	1 020 (17)	1 200 (15)	1 200 (15)
	480 (12)		1 200 (20)	1 200 (20)	1 520 (19)	1 520 (19)
	560 (14)		1 500 (25)	1 500 (25)		
	640 (16)					
	720 (18)					
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
	below	25.5	37	38	39	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)
Identification number	MX 45 LRX45	MX 55 LRX55	MX 65 LRX65	LRX85	LRXG100	
Item						
Standard length L (n)	840 (8)	840 (7)	1 500 (10)	1 620 (9)	1 500 (10)	
	1 050 (10)	1 200 (10)	1 950 (13)	1 980 (11)	1 950 (13)	
	1 260 (12)	1 560 (13)	3 000 (20)	2 340 (13)	3 000 (20)	
	1 470 (14)	1 920 (16)		2 700 (15)		
	1 995 (19)	3 000 (25)				
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
	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.

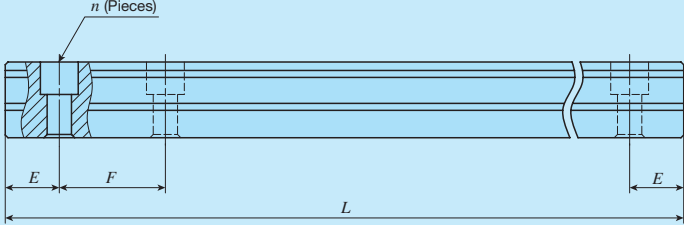
Table 2.2 Standard and maximum length of stainless steel track rail



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
Item						
Standard length L (n)	50 (2)	80 (2)	180 (3)	240 (4)	240 (4)	480 (6)
	100 (4)	160 (4)	240 (4)	480 (8)	480 (8)	640 (8)
	150 (6)	240 (6)	360 (6)	660 (11)	660 (11)	800 (10)
	200 (8)	320 (8)	480 (8)	840 (14)	840 (14)	1 040 (13)
	250 (10)	400 (10)	660 (11)			
	300 (12)	480 (12)				
	350 (14)	560 (14)				
	400 (16)	640 (16)				
	450 (18)	720 (18)				
	500 (20)					
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	10
	below	17.5	25.5	37	38	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.

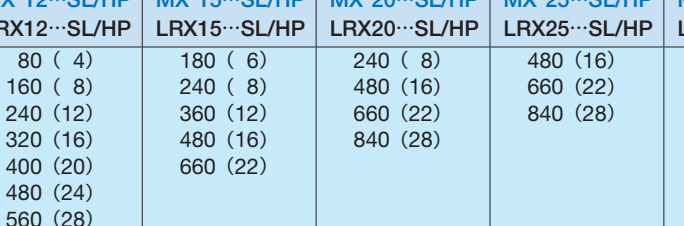
Table 2.3 Standard and maximum length of high carbon steel track rail (Half pitch mounting holes specification supplemental code /HP)



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
Item						
Standard length L (n)	80 (4)	180 (6)	240 (8)	480 (16)	480 (12)	480 (12)
	160 (8)	240 (8)	480 (16)	660 (22)	640 (16)	640 (16)
	240 (12)	360 (12)	660 (22)	840 (28)	800 (20)	800 (20)
	320 (16)	480 (16)	840 (28)	1 020 (34)	1 040 (26)	1 040 (26)
	400 (20)	660 (22)	1 020 (34)	1 200 (40)	1 200 (30)	1 200 (30)
	480 (24)		1 200 (40)	1 500 (50)	1 520 (38)	1 520 (38)
	560 (28)		1 500 (50)			
	640 (32)					
	720 (36)					
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
	below	15.5	22	23	24	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)
Identification number	MX 45.../HP LRX45.../HP	MX 55.../HP LRX55.../HP	MX 65.../HP LRX65.../HP	LRX85.../HP		
Item						
Standard length L (n)	840 (16)	840 (14)	1 500 (20)	1 620 (18)		
	1 050 (20)	1 200 (20)	1 950 (26)	1 980 (22)		
	1 260 (24)	1 560 (26)	3 000 (40)	2 340 (26)		
	1 470 (28)	1 920 (32)		2 700 (30)		
	1 995 (38)	3 000 (50)				
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	
	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)



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
Item					
Standard length L (n)	80 (4)	180 (6)	240 (8)	480 (16)	480 (12)
	160 (8)	240 (8)	480 (16)	660 (22)	640 (16)
	240 (12)	360 (12)	660 (22)	840 (28)	800 (20)
	320 (16)	480 (16)	840 (28)		1 040 (26)
	400 (20)	660 (22)			
	480 (24)				
	560 (28)				
	640 (32)				
	720 (36)				
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	10
	below	15.5	22	23	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.

7	Preload amount	Standard	: No symbol	Specify this item for an assembled set or a single slide unit.
		Light preload	: T ₁	
		Medium preload	: T ₂	For details of the preload amount, see Table 3.
		Heavy preload	: T ₃	For applicable preload types, see Table 4.

Table 3 Preload amount

Preload type	Item	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: C₀ indicates the basic static load rating.

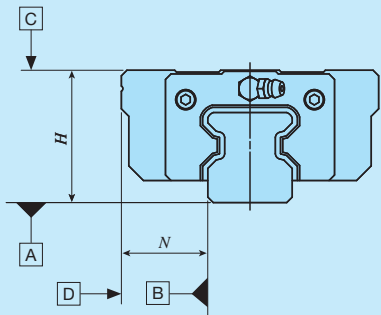
Table 4 Application of preload

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.

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	
		Ultra precision	: UP	For applicable accuracy class, see Table 6.

Table 5 Tolerance and allowance

				
unit: mm				
Class (classification symbol)	High (H)	Precision (P)	Super precision (SP)	Ultra precision (UP)
Item				
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.

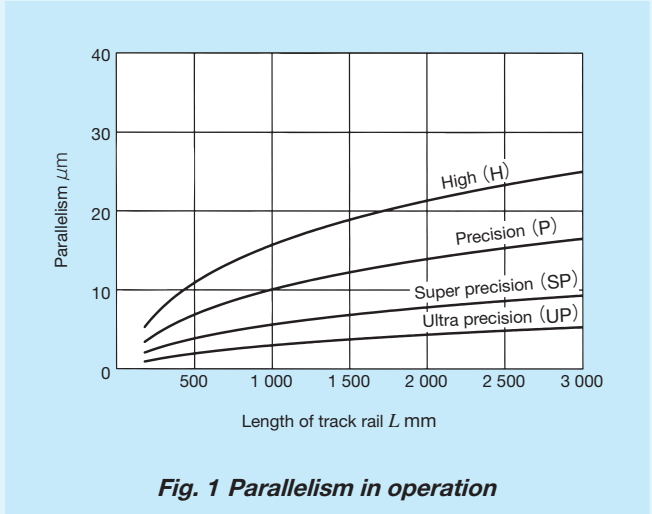


Table 6 Application of accuracy class

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.

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. Performance and accuracy of "S1" and "S2" are the same. 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, /JO, /LO, /LFO, /MA, /MN, /N, /PS, /Q, /RCO, /T, /UR, /VO, /WO, /YO, /ZO		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⁾	/JO	—	×	○	○	○	○	○	○	○	○	—	—
No end seal ⁽³⁾	/N	—	○	○	○	○	○	○	○	×	×	—	—
With C-Lube plate ⁽⁴⁾	/Q	—	○	○	○	○	○	○	○	○	○	—	—
Double end seals	/VO	—	○	○	○	○	○	○	○	○	○	—	—
Scrapers	/ZO	—	○	○	○	○	○	○	○	○	○	—	—

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⁾	/JO	—	×	○	○	○	○	○	○	○	○	—	—
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⁾	/JO	—	×	○	○	○	○	○	○	○	○	—	—
Black chrome surface treatment	/LO	—	○	○	○	○	○	○	○	○	○	—	—
Fluorine black chrome surface treatment	/LFO	—	○	○	○	○	○	○	○	○	○	—	—
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	/VO	—	○	○	○	○	○	○	○	○	○	—	—
Specified grease ⁽⁶⁾	/YO	—	○	○	○	○	○	○	○	○	○	—	—
Scrapers	/ZO	—	○	○	○	○	○	○	○	○	○	—	—

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.

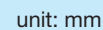
Table 7.4 Application of special specifications (Non-interchangeable specification)

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	/JO	×	×	○	○	○	○	○	○	○	○	○	×
Black chrome surface treatment	/LO	×	○	○	○	○	○	○	○	○	○	×	×
Fluorine black chrome surface treatment	/LFO	×	○	○	○	○	○	○	○	○	○	×	×
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)}	/RCO	×	×	×	○	○	○	○	○	○	○	×	×
Inner seal ⁽²⁾	/UR	×	×	×	○	○	○	○	○	○	○	×	×
Double end seals	/VO	×	○	○	○	○	○	○	○	○	○	○	○
A group of multiple assembled sets	/WO	○	○	○	○	○	○	○	○	○	○	×	×
Specified grease ⁽⁶⁾	/YO	○	○	○	○	○	○	○	○	○	○	○	○
Scrapers	/ZO	×	○	○	○	○	○	○	○	○	○	○	○

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⁾ MX series is applicable only to /YCG.

[illegible]

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



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

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	$M_1 \times \text{depth}$	$L_1^{(2)}$	H_3	a_3	a_4	$M_2 \times \text{depth}$				
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					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									

2. This is also applicable to stainless steel type models of the same size.

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	16	15	40	5	60	M3× 6	99	8	16	M4× 8			
MXD 35	LRXD 35								131						
MXDG 35	LRXDG 35								159						
MXDL 35	—								191						
MXS 35	—	6	16	15	40	5	60	M3× 6	131	8	16	M4× 8			
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	21	18	50	6	74	M4× 8	123	10	19	M5×10			
MXD 45	LRXD 45								163						
MXDG 45	LRXDG 45								203						
MXDL 45	—								243						
MXS 45	—	7	21	18	50	6	74	M4× 8	163	10	19	M5×10			
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	27	20	60	6	88	M4× 8	145	10	24	M5×10			
MXD 55	LRXD 55								193						
MXDG 55	LRXDG 55								247						
MXDL 55	—								301						
MXS 55	—	7	27	20	60	6	88	M4× 8	193	10	24	M5×10			
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	75	9	108	M5×10	191				14	28	M6×12
—	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								334						
—	LRXDG 85	15	45	38	90	13	140	M6×10	406	14.5	38	M6×12			
—	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

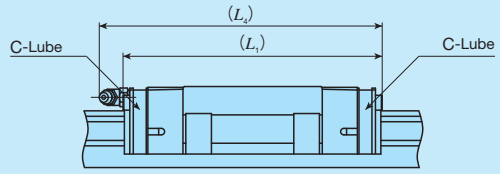
Size 30

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	$M_1 \times \text{depth}$	$L_1^{(2)}$	H_3	a_3	a_4	$M_2 \times \text{depth}$				
MXN 30	14.5	—	20	50	—	—	M3×6	128	0.8	7	14	M4× 8				
MXNG 30								149								
MXNL 30			5					177								
MXNS 30								128								
MXNSG 30	2	16	30	40	20	60	M3×6	149	—	8	16	M4× 8				
MXNSL 30								177								
MXN 35			15		5			131								
MXNG 35								159								
MXNL 35	1	21	35	50	23	74	M4×8	191	—	10	19	M5×10				
MXNS 35								131								
MXNSG 35			18		6			159								
MXNSL 35								191								
MXN 45	0	27	40	60	26	88	M4×8	163	—	10	24	M5×10				
MXNG 45								203								
MXNL 45			20		6			243								
MXNS 45								163								
MXNSG 45	0	27	40	60	26	88	M4×8	203	—	10	24	M5×10				
MXNSL 45								243								
MXN 55			40		26			193								
MXNG 55								247								
MXNL 55	0	27	40	60	26	88	M4×8	301	—	10	24	M5×10				
MXNS 55								193								
MXNSG 55			20		6			247								
MXNSL 55								301								

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

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



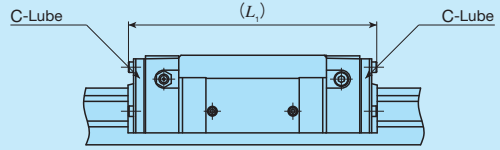
unit: mm

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



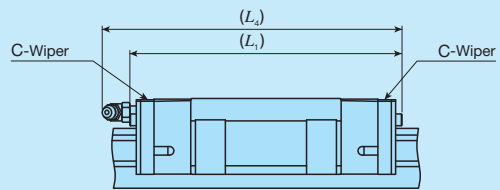
unit: mm

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



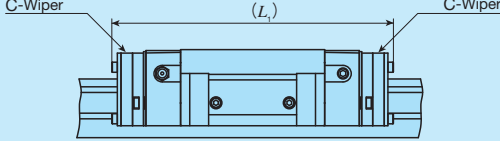
unit: mm

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



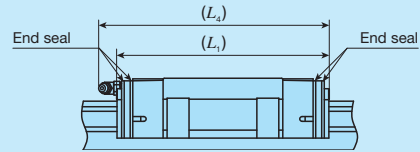
unit: mm

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



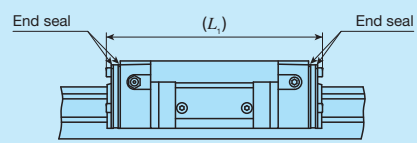
unit: mm

Identification number	L_1	L_4
MXC 12	—	49
—	LRXC 12	44
MX 12	—	58
—	LRX 12	54
MXG 12	—	70
—	LRXG 12	65
MXC 15	LRXC 15	58
MX 15	LRX 15	74
MXG 15	LRXG 15	90
MXC 20	LRXC 20	73
MX 20	LRX 20	93
MXG 20	LRXG 20	113
MXL 20	—	135
MXC 25	LRXC 25	83
MX 25	LRX 25	107
MXG 25	LRXG 25	122
MXL 25	—	146
MXC 30	LRXC 30	93
MX 30	LRX 30	121
MXN 30	—	131
MXG 30	LRXG 30	142
MXNG 30	—	152
MXL 30	—	170
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



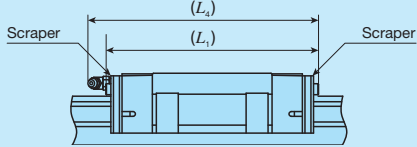
unit: mm

Identification number	L_1
MXC 35	LRXC 35
MX 35	LRX 35
MXG 35	LRXG 35
MXL 35	—
MXC 45	LRXC 45
MX 45	LRX 45
MXG 45	LRXG 45
MXL 45	—
MXC 55	LRXC 55
MX 55	LRX 55
MXG 55	LRXG 55
MXL 55	—
MXC 65	—
—	LRXC 65
MX 65	—
—	LRX 65
MXG 65	—
—	LRXG 65
MXL 65	—
—	LRX 85
—	LRXG 85
—	LRXL 85
—	LRXG 100

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

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

Size: 12, 15, 20, 25, 30



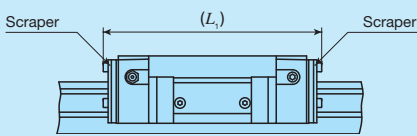
unit: mm

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 [SHOWA SHELL SEKIYU 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 reapplying 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.

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	—
15 ⁽²⁾	A-M4	B-5120V B-5240V	M4
20 ⁽²⁾	B-M4	A-8120V	
25 ⁽²⁾		B-8120V	
30 ⁽³⁾ ⁽⁴⁾	B-M6	Grease gun available on the market	M6
35 ⁽⁵⁾	JIS1 type		PT1/8
45 ⁽⁶⁾	JIS2 type		
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**.

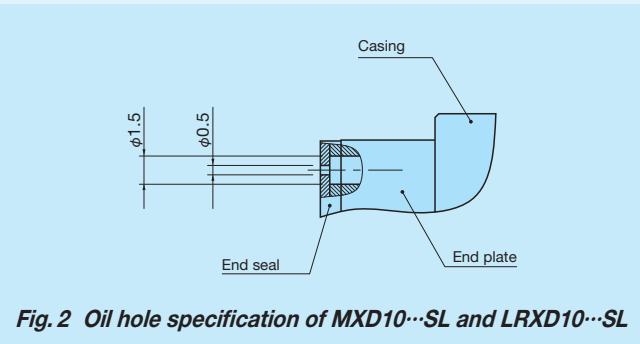


Fig. 2 Oil hole specification of MXD10...SL and LRXD10...SL

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**.

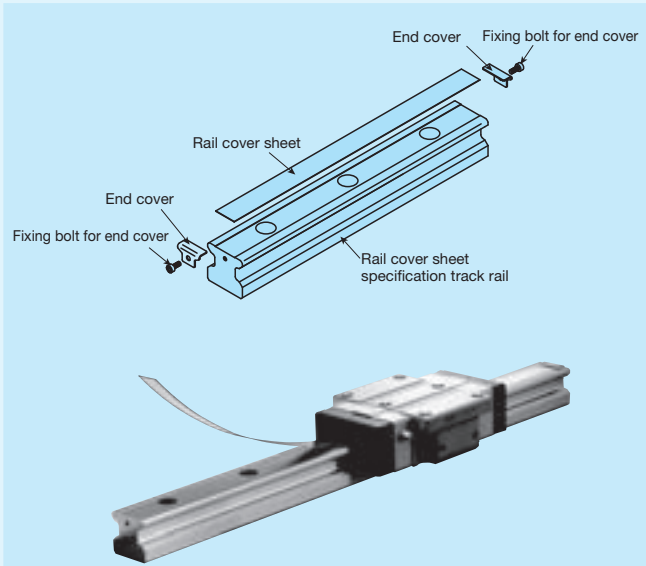


Fig. 3 Rail cover sheet

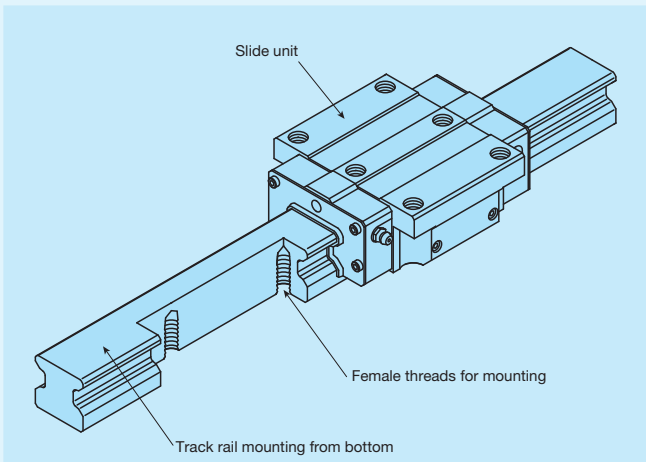


Fig. 4 Track rail mounting from bottom specification

Precaution for Use

① 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 and 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 linear motion with high accuracy. Reference mounting surface of the slide unit is the opposite side of the **IKO** mark. The track rail reference mounting surface is identified by locating the **IKO** mark on the top surface of the track rail. It is the side surface above the mark (in the direction of the arrow). (See Fig. 6.)

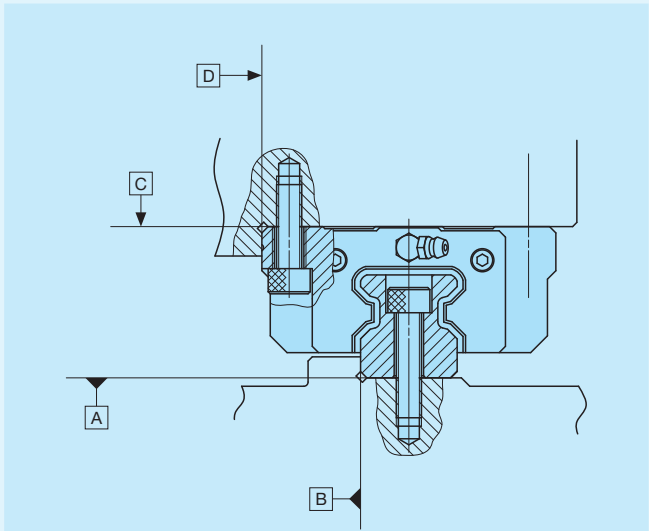


Fig. 5 Reference mounting surface and typical mounting structure

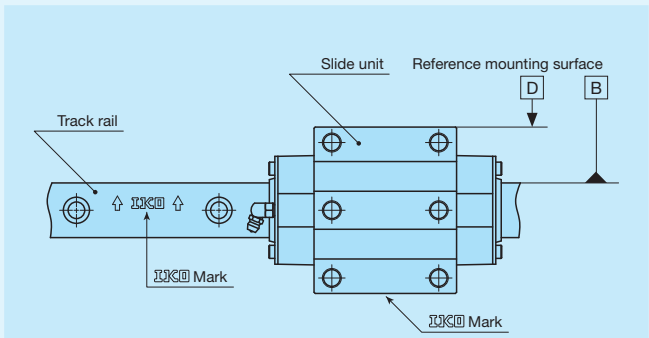


Fig. 6 Reference mounting surface

② 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 16.1 and 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.

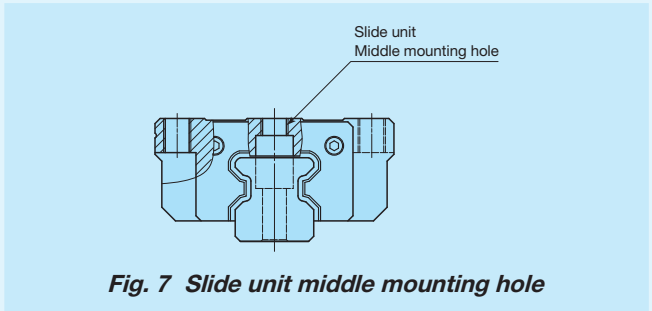


Table 16.1 Fixing thread depth for slide unit mounting hole of compact block type unit: mm

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.

③ 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.

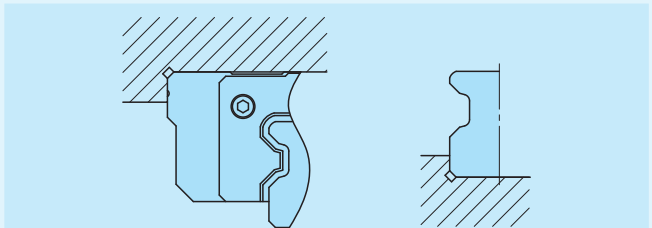


Fig. 8 Corner of the mating reference mounting

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

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

④ 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	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.

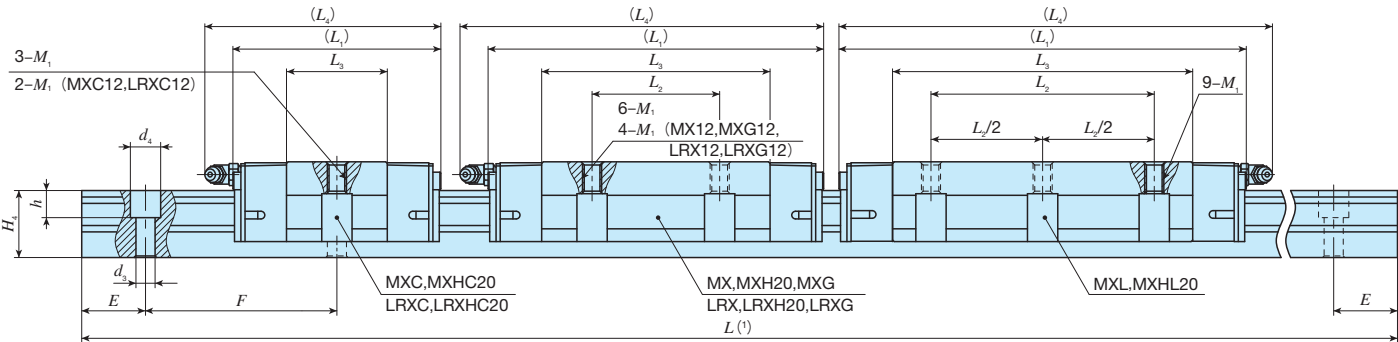
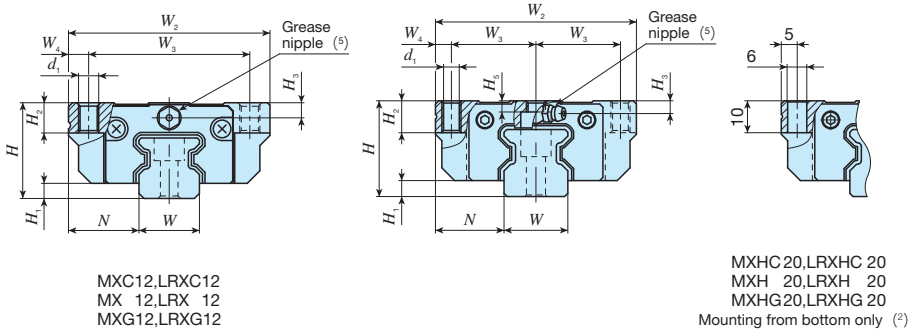
2. It is recommended that the tightening torque of slide unit middle mounting holes for size 15, 20, 25, 30, 35 of flange type (MXC, MX, MXG, MXL, LRXC, LRX, LRXG) is to be 70 to 80% of the values in the table.

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

IKO C-Lube Linear Roller Way Super MX

Flange type mounting from top / bottom

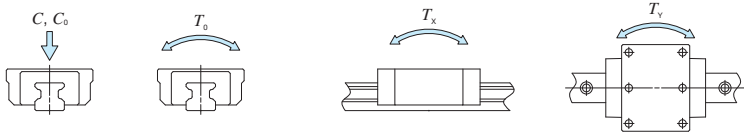
Shape	MX • LRX				
Size	12	15	20	25	30
	35	45	55	65	100



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 ⁽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	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
MXG 12		○	0.13								61	15	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}

- 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. The models with the same dimensions allowing mounting from bottom are MXHC20, MXH20, MXHG20, MXHL20, LRXHC20, LRXH20, and LRXH20.
- ⁽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.



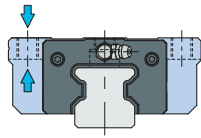
Example of identification number of assembled set

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

① Model	MX	Flange type mounting
	LRX	from top / bottom
② Length of slide unit	C	Short
	No symbol	Standard
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
⑦ Accuracy class	P	Precision
	SP	Super precision
⑧ Interchangeable	No symbol	Non-interchangeable specification
	S1	S1 specification
⑨ Special specification	A, D, E, F, GE, HP, I, J, L	
	LF, MA, MN, N, Q, RC, T	

Flange type mounting from top / bottom

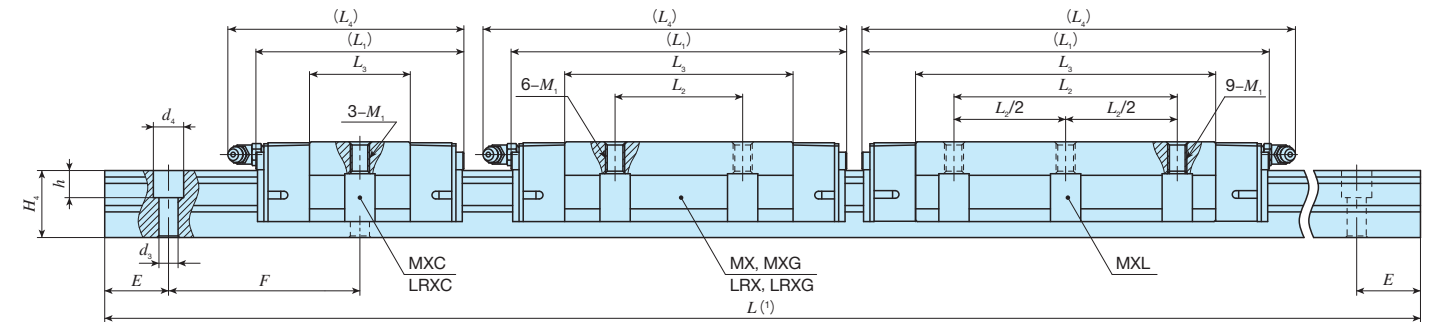
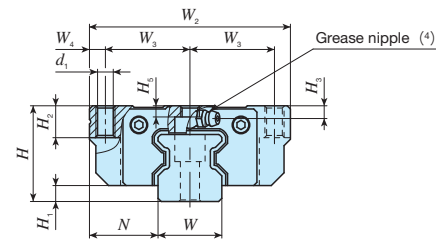
MX • LRX



Shape

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
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		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

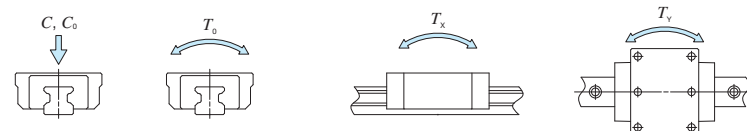
Notes (1) Track rail lengths L are shown in Table 2.1 on page II – 175 and Table 2.3 on page II – 176 .

(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
<u>MX</u>	<u>G</u>	<u>25</u>	<u>C2</u>	<u>R840</u>	<u>T₁</u>	<u>P</u>	<u> </u>	<u>/F</u>
1	2	3	4	5	6	7	8	9

① Model	
MX	Flange type mounting
LRX	from top / bottom

③ Size	25, 30
--------	--------

⑥ Preload amount	
No symbol	Standard
T ₁	Light preload
T ₂	Medium preload
T ₃	Heavy preload

⑧ Interchangeable	
No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

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

⑤ Length of track rail (840 mm)

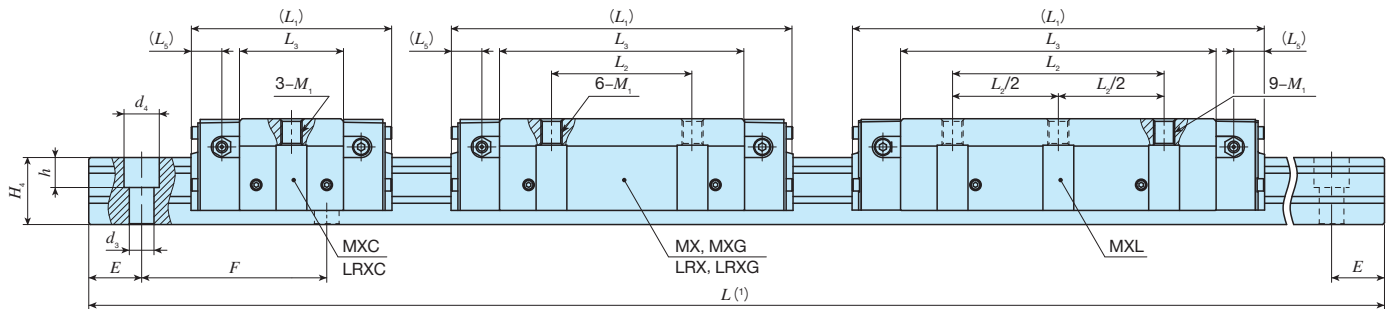
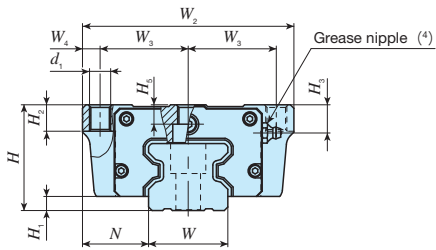
⑦ Accuracy class	
H	High
P	Precision
SP	Super precision
UP	Ultra precision

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

IKO C-Lube Linear Roller Way Super MX

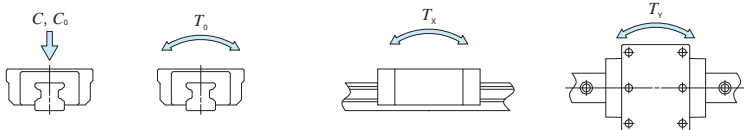
Flange type mounting from top / bottom

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 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	○																																																					
MX 35		○									1.76	124	62	78.6															12.7	13	13	7	34	32	9	14	12	40	80	58 700	100 000	2 170	1 360 8 470	1 360 8 470											
	LRX 35	○																																																					
MXG 35		○	2.41	152	106.6	12.7	13	13	7	34	32	9	14	12	40	80	74 200	135 000	2 930	2 440 13 800	2 440 13 800																																		
	LRXG 35	○																																																					
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																15	16	11	45	38	14	20	17	52.5	105	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

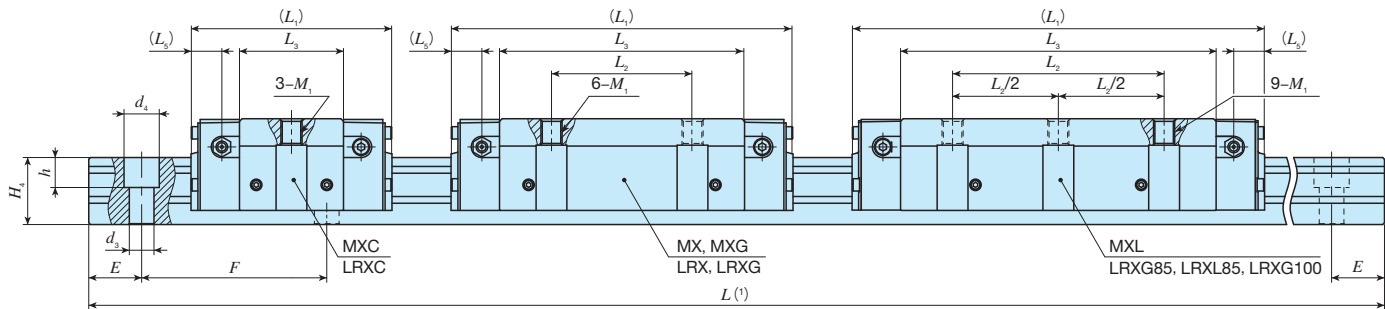
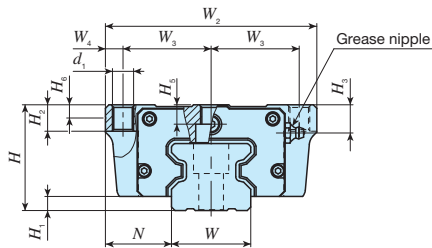
Model code		Dimensions		Part code		Preload symbol		Classification symbol		Interchangeable code		Supplemental code					
<u>MX</u>		<u>G</u>		<u>35</u>		<u>C2</u>		<u>R1200</u>		<u>T₂</u>		<u>P</u>		<u>/F</u>			
①		②		③		④		⑤		⑥		⑦		⑧		⑨	
① Model				③ Size				⑥ Preload amount				⑨ Interchangeable					
MX		Flange type mounting		35, 45				No symbol		Standard		No symbol		Non-interchangeable specification			
LRX		from top / bottom						T ₁		Light preload		S ₁		S ₁ specification			
								T ₂		Medium preload		S ₂		S ₂ specification			
								T ₃		Heavy preload							
② Length of slide unit				④ Number of slide unit (2)				⑦ Accuracy class				⑨ Special specification					
C		Short		⑤ Length of track rail (1,200 mm)				H		High		A, D, E, F, GE, HP, I, J, L					
No symbol		Standard						P		Precision		LF, MA, MN, N, PS, Q					
G		Long						SP		Super precision		RC, T, UR, V, W, Y, Z					
L		Extra long						UP		Ultra precision							

MX • LRX

IKO C-Lube Linear Roller Way Super MX

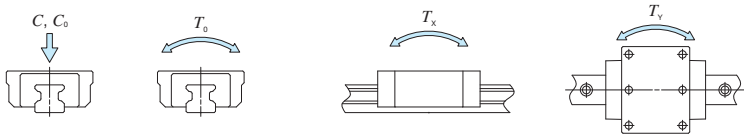
Flange type mounting from top / bottom

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 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	LRXC 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	
		○									181		26.6																						
MX 65	LRX 65	○	11.5								244	110	159	26.3																223	26.6	26.3	26.6		
		○									245			26.6																					
MXG 65	LRXG 65	○	16.0								308		223	26.3																					
		○									309		26.6																						
MXL 65	—	—	20.8								380	200	295	26.3																					
—	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

- 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

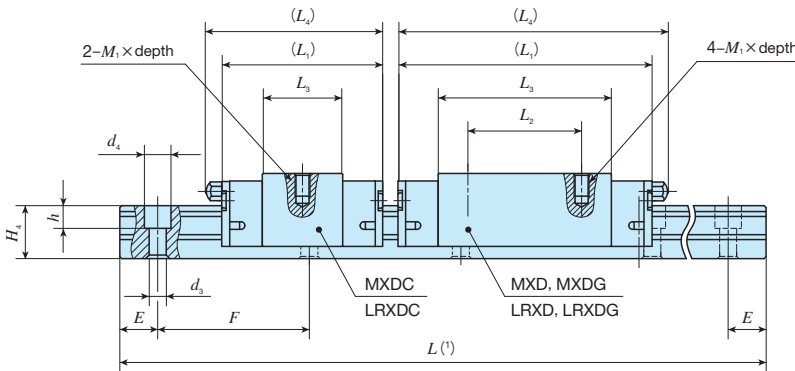
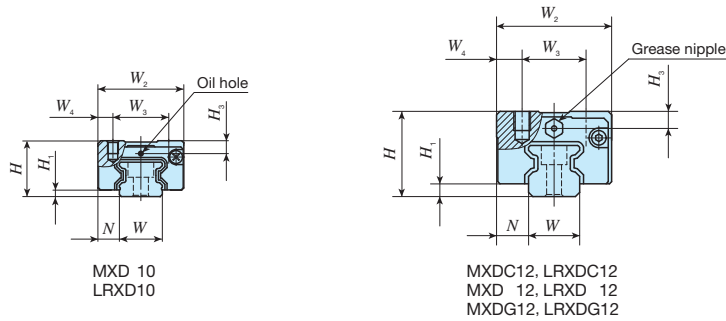
Model code		Dimensions	Part code		Preload symbol	Classification symbol	Interchangeable code	Supplemental code
<u>MX</u>	<u>G</u>	<u>55</u>	<u>C2</u>	<u>R3000</u>	<u>T₂</u>	<u>P</u>	<u> </u>	<u>/F</u>
1	2	3	4	5	6	7	8	9

① Model		③ Size		⑥ Preload amount		⑧ Interchangeable	
MX	Flange type mounting	55, 65, 85, 100		No symbol	Standard	No symbol	Non-interchangeable specification
LRX	from top / bottom			T1	Light preload	S1	S1 specification
				T2	Medium preload	S2	S2 specification
				T3	Heavy preload		
② Length of slide unit		④ Number of slide unit (2)		⑦ Accuracy class		⑨ Special specification	
C	Short			H	High	A, D, E, F, GE, HP, I, J, L	
No symbol	Standard			P	Precision	LF, MA, MN, PS, Q, RC	
G	Long			SP	Super precision	T, UR, V, W, Y, Z	
L	Extra long			UP	Ultra precision		

IKO C-Lube Linear Roller Way Super MX

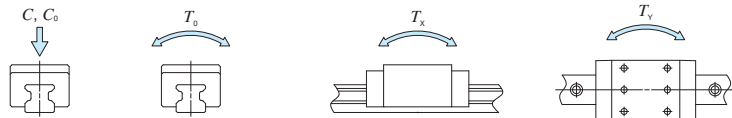
Block type mounting from top

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



Identification number		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
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								40	—	15.8	44												4 250	6 500	49.4	18.6 196	18.6 196	
	LRXDC 12	○									37																		14.8	40	16.3 170
—	LRXDC 12…SL	○	0.072	0.92	20	3	7.5	27	15	6	50		25.4	53	M4 ×4.5		4	12	12	3.5	6	4.5	20	40	M3×12	6 120	10 400	79.1	45.8 371	45.8 371	
	LRXD 12	○									47																		25.3	50	78.7
MXD 12…SL		○	0.097								50	15	25.4	53												6 120	10 400	79.1	45.8 371	45.8 371	
	LRXD 12…SL	○									47																		25.3	50	78.7
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	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.



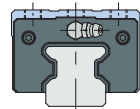
Example of identification number of assembled set

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

① Model MXD LRXD Block type mounting from top	④ Number of slide unit (2)	⑦ Preload amount No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload	⑩ Interchangeable No symbol Non-interchangeable specification S1 S1 specification S2 S2 specification
② Length of slide unit C Short No symbol Standard G Long	⑥ Length of track rail (560 mm)	⑧ Accuracy class H High P Precision SP Super precision UP Ultra precision	⑨ Special specification A, D, E, F, HP, I, L, LF MA, MN, N, Q, T, V, W Y, Z
③ Size 10, 12	⑥ Material type No symbol High carbon steel made SL Stainless steel made		

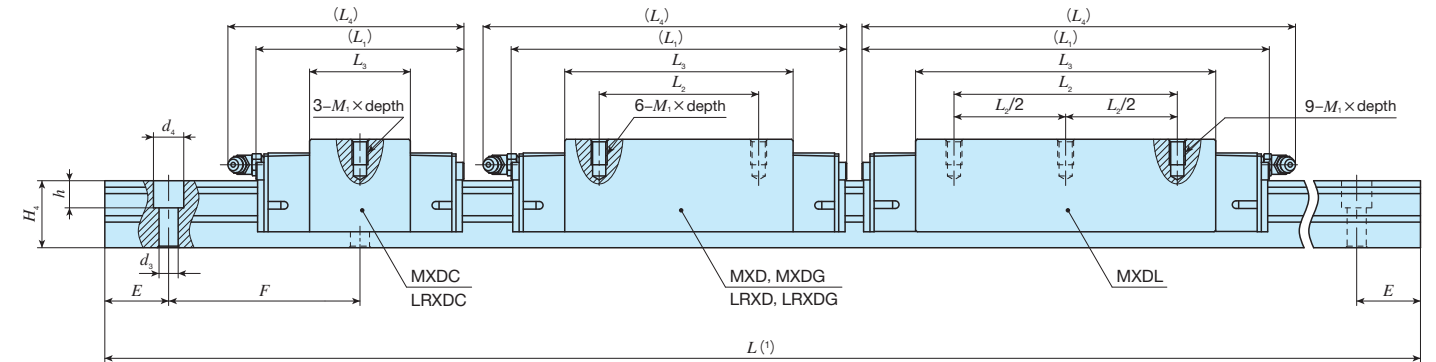
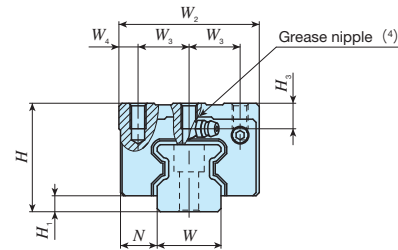
Block type mounting from top

Shape



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	○																																															
MXD 15…SL	LRXD 15…SL	○	0.19																									68	26	40	71													11 500	20 000	188	¹³⁶ ₉₄₂	¹³⁶ ₉₄₂	
MXDG 15	LRXDG 15	○																																															
—	LRXDG 15…SL	○	0.26																										84		56	87													14 900	28 000	263	²⁶² _{1 590}	²⁶² _{1 590}
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	○																											86	36	51.6	94																	
MXD 20…SL	LRXD 20…SL	○	0.38																																										23 400	42 700	550	³⁷⁹ _{2 520}	³⁷⁹ _{2 520}
MXDG 20	LRXDG 20	○																																															
—	LRXDG 20…SL	○	0.52																										106	50	71.6	114														30 100	58 900	760	⁷¹³ _{4 200}
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.

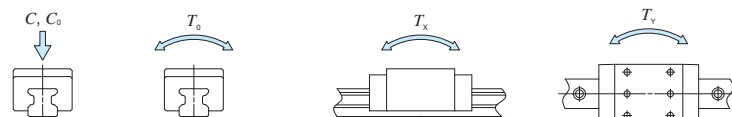
(4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page II-188.

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
<u>MXD</u>	<u>G</u>	<u>20</u>	<u>C2</u>	<u>R840</u>	<u>—</u>	<u>T₁</u>	<u>P</u>	<u>—</u>	<u>/F</u>
1	2	3	4	5	6	7	8	9	10

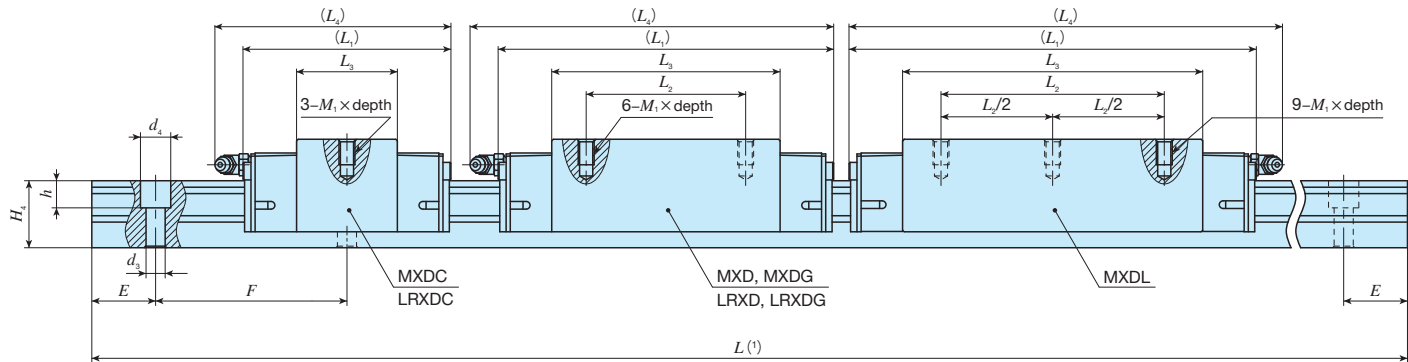
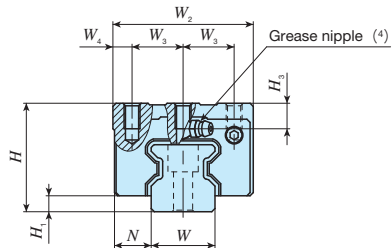
① Model		③ Size		⑦ Preload amount		⑨ Interchangeable	
MXD	Block type mounting from top	15, 20		No symbol	Standard	No symbol	Non-interchangeable specification
LRXD		④ Number of slide unit (2)		T ₁	Light preload	S1	S1 specification
② Length of slide unit		⑤ Length of track rail (840 mm)		T ₂	Medium preload	S2	S2 specification
C	Short	⑥ Material type		T ₃	Heavy preload	⑩ Special specification	
No symbol	Standard	No symbol	High carbon steel made	H	High	A, D, E, F, HP, I, J, L, LF MA, MN, N, Q, RC, T, UR V, W, Y, Z	
G	Long	SL	Stainless steel made	P	Precision		
L	Extra long			SP	Super precision		
				UP	Ultra precision		



IKO C-Lube Linear Roller Way Super MX

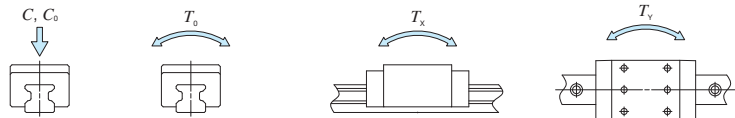
Block type mounting from top

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



Identification number		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	213 810	213 810																		
—	LRXDC 25…SL	○																																														
MXD 25	LRXD 25	○	0.55																										98	35	60	107																
MXD 25…SL	LRXD 25…SL	○																																														
MXDG 25	LRXDG 25	○	0.68																										113	50	75	122																
—	LRXDG 25…SL	○																																														
MXDL 25	—	—	0.88																										137	70	99	146																
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	329 740	329 740																		
—	LRXDC 30…SL	○																																														
MXD 30	LRXD 30	○	0.92																										113	40	70.4	123																
MXD 30…SL	LRXD 30…SL	○																																														
MXDG 30	LRXDG 30	○	1.18																										134	60	91.4	144																
—	LRXDG 30…SL	○																																														
MXDL 30	—	—	1.52																										162	80	119.4	172																

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.



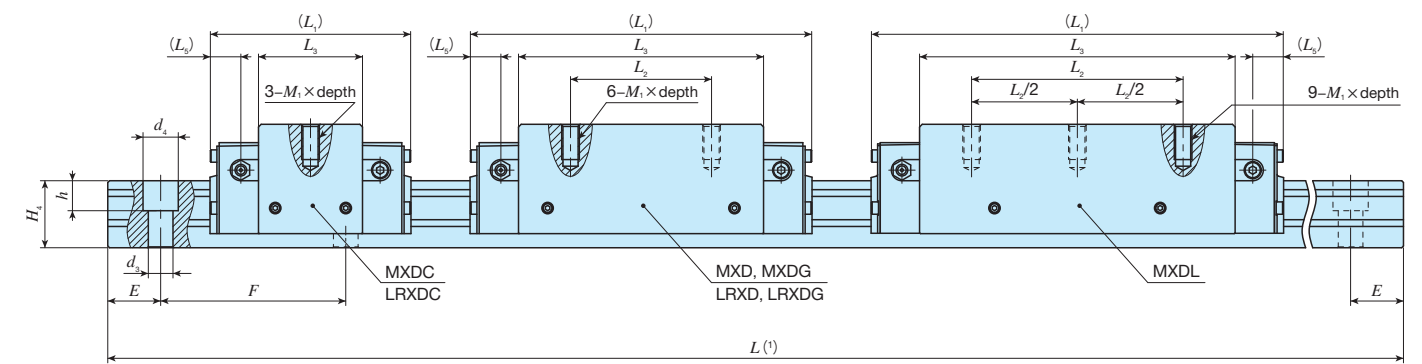
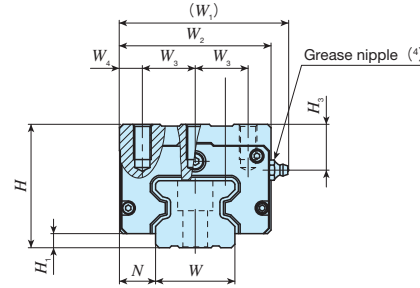
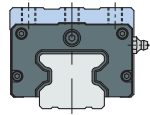
Example of identification number of assembled set

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

① Model MXD LRXD Block type mounting from top	③ Size 25, 30	⑦ Preload amount No symbol Standard T ₁ Light preload T ₂ Medium preload T ₃ Heavy preload	⑨ Interchangeable No symbol Non-interchangeable specification S1 S1 specification S2 S2 specification
② Length of slide unit C Short No symbol Standard G Long L Extra long	④ Number of slide unit (2)	⑧ Accuracy class H High P Precision SP Super precision UP Ultra precision	⑩ Special specification A, D, E, F, HP, I, J, L, LF MA, MN, N, Q, RC, T, UR V, W, Y, Z
⑤ Length of track rail (840 mm)	⑥ Material type No symbol High carbon steel made SL Stainless steel made		

Block type mounting from top

MXD • LRXD



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

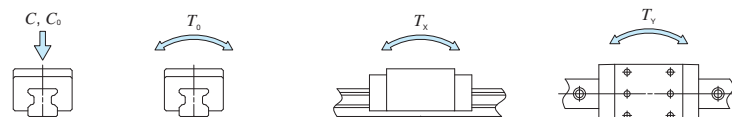
Notes (1) Track rail lengths L are shown in Table 2.1 on page II – 175 and Table 2.3 on page II – 176 .

(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.

(2) 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.



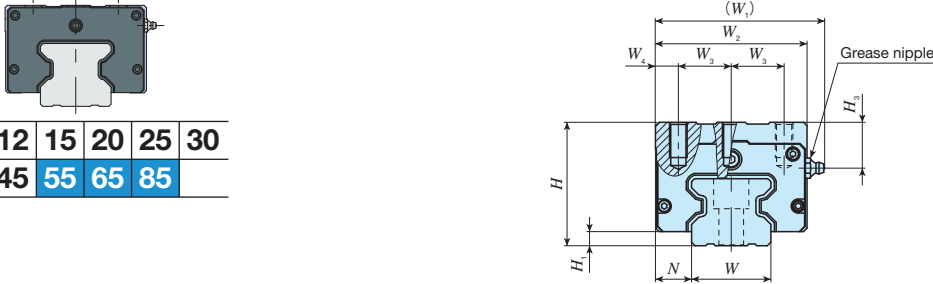
Example of identification number of assembled set

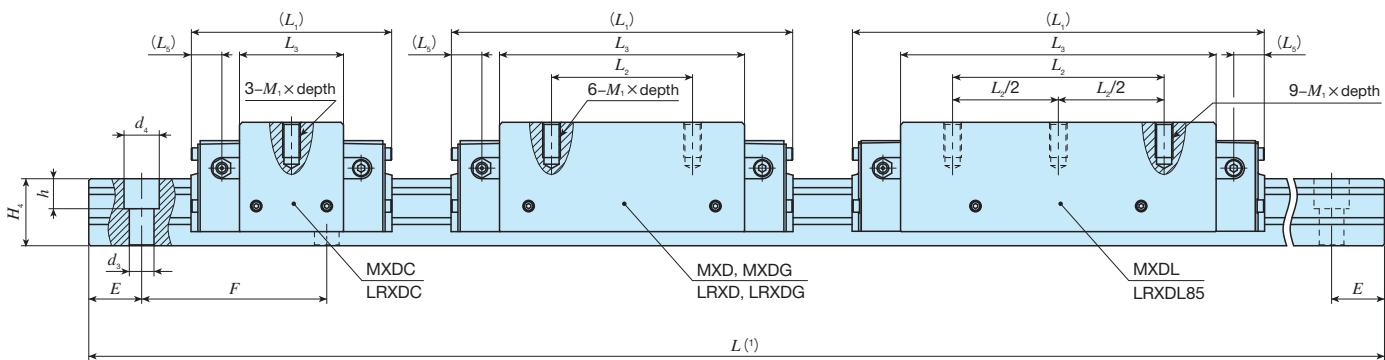
Model code		Dimensions	Part code		Preload symbol	Classification symbol	Interchangeable code	Supplemental code
<u>MXD</u>	<u>G</u>	<u>35</u>	<u>C2</u>	<u>R1200</u>	<u>T₂</u>	<u>P</u>	<u>—</u>	<u>/F</u>
1	2	3	4	5	6	7	8	9

① Model		③ Size	⑥ Preload amount		⑧ Interchangeable	
MXD	Block type mounting from top		No symbol	Standard	No symbol	Non-interchangeable specification
LRXD			T ₁	Light preload	S ₁	S ₁ specification
② Length of slide unit		④ Number of slide unit (2)	T ₂	Medium preload	S ₂	S ₂ specification
C	Short		⑤ Length of track rail (1,200 mm)	T ₃	Heavy preload	
No symbol	Standard					
G	Long					
L	Extra long					
⑨ Special specification						

IKO C-Lube Linear Roller Way Super MX

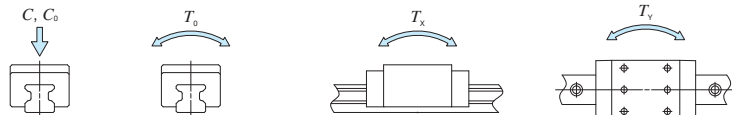
Block type mounting from top

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



Identification number		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) C N	Basic static load rating (3) C0 N	Static moment rating (3)		
MX series	LRX series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H1	N	W1	W2	W3	W4	L1	L2	L3	L5	M1 x depth	H3	W	H4	d3	d4	h	E	F	Bolt size x l			T0 N · m	Tx N · m	Ty N · m
MXDC 55	LRXDC 55	○	3.17	14.1	80	9	23.5	110	100	37.5	12.5	136	—	72	20	M12 x 25	26	53	43	16	23	20	60	120	M14 x 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	LRXDC 65	○	5.52	22.6	90	12	31.5	135	126	38	25	180	—	95	26.3	M16 x 25	18	63	56	18	26	22	75	150	M16 x 60	174 000	249 000	9 790	4 200 32 000	4 200 32 000
MXD 65		○										181	—	95												260 000	415 000	16 300	4 200 32 000	4 200 32 000
MXDG 65	LRXD 65	○	8.70									244	70	159												337 000	581 000	22 800	11 300 69 000	11 300 69 000
MXDL 65	LRXDG 65	○	12.1									308	120	223												419 000	768 000	30 200	21 800 193 000	21 800 193 000
	LRXD 85	—	19.9	36.7	110	16	40.5	175	166	60	23	323	140	232	27.5	M20 x 30	22	85	67	26.5	39	30	90	180	M24 x 70	440 000	753 000	38 900	29 500 163 000	29 500 163 000
		—	25.5									395	200	304												542 000	985 000	50 800	50 000 257 000	50 000 257 000
		—	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.



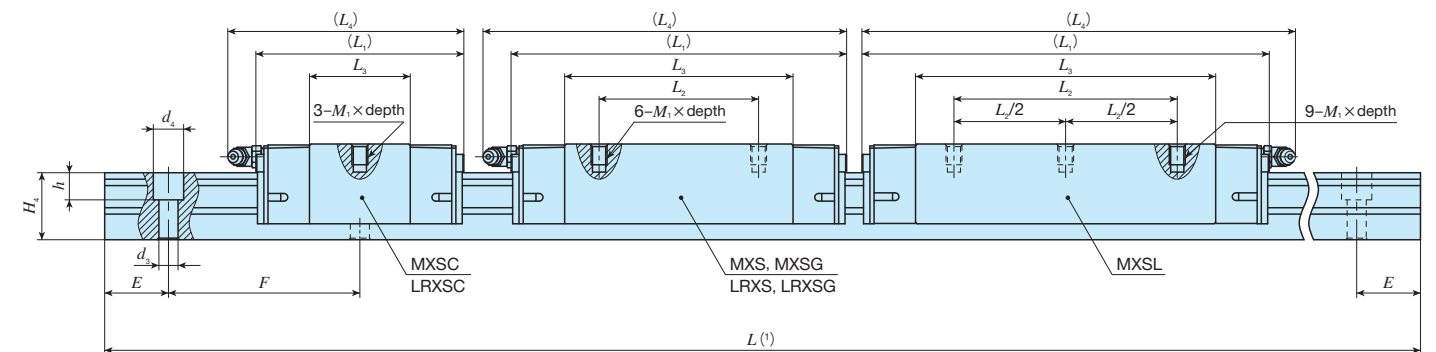
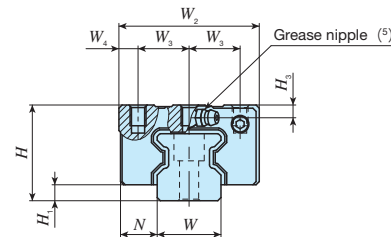
Example of identification number of assembled set

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

① Model		③ Size		⑥ Preload amount		⑧ Interchangeable	
MXD	Block type mounting from top	55, 65, 85		No symbol	Standard	No symbol	Non-interchangeable specification
LRXD				T ₁	Light preload	S1	S1 specification
				T ₂	Medium preload	S2	S2 specification
				T ₃	Heavy preload		
② Length of slide unit		④ Number of slide unit (2)		⑦ Accuracy class		⑨ Special specification	
C	Short	⑤ Length of track rail (3,000 mm)		H	High	A, D, E, F, HP, I, J, L, LF	
No symbol	Standard			P	Precision	MA, MN, PS, Q, RC, T	
G	Long			SP	Super precision	UR, V, W, Y, Z	
L	Extra long			UP	Ultra precision		

Compact block type mounting from top

Shape				
	15	20	25	30
Size	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
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.

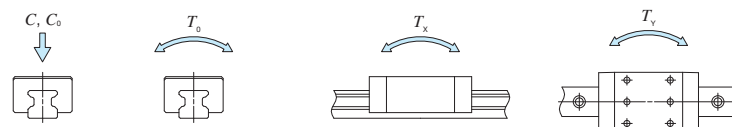
(5) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page II-188.

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

Example of identification number of assembled set

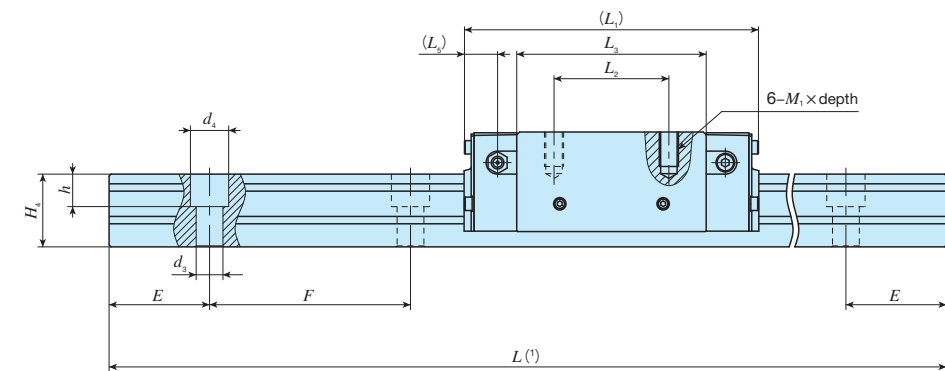
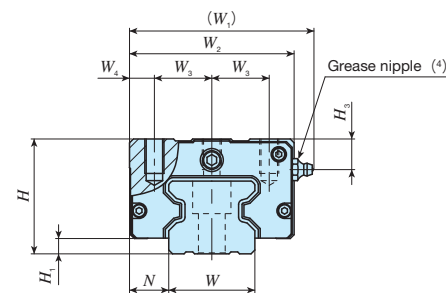
Model code		Dimensions	Part code		Preload symbol	Classification symbol	Interchangeable code	Supplemental code
MXS	G	25	C2	R840	T₁	P		/F
1	2	3	4	5	6	7	8	9

① Model MXS Compact block type LRXS mounting from top	③ Size 15, 20, 25, 30	⑥ Preload amount No symbol Standard T ₁ Light preload T ₂ Medium preload T ₃ Heavy preload	⑧ Interchangeable No symbol Non-interchangeable specification S1 S1 specification S2 S2 specification
② Length of slide unit C Short No symbol Standard G Long L Extra long	④ Number of slide unit (2) ⑤ Length of track rail (840 mm)	⑦ Accuracy class H High P Precision SP Super precision UP Ultra precision	⑨ Special specification A, D, E, F, HP, I, J, L, LF MA, MN, N, Q, RC, T, UR V, W, Y, Z



Compact block type mounting from top

Shape				
	15	20	25	30
Size	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
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												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												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												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.

Example of identification number of assembled set

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

① Model	
MXS	Compact block type mounting from top

③ Size	35, 45, 55
--------	------------

⑥ Preload amount	
No symbol	Standard
T ₁	Light preload
T ₂	Medium preload
T ₃	Heavy preload

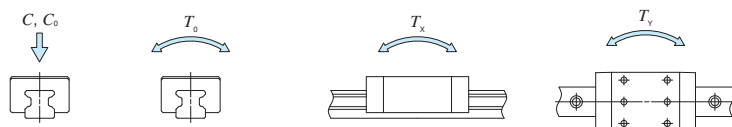
⑧ Interchangeable	
No symbol	Non-interchangeable specification
S1	S1 specification
S2	S2 specification

② Length of slide unit	
No symbol	Standard
G	Long

⑤ Length of track rail (1,470 mm)

⑦ Accuracy class	
H	High
P	Precision
SP	Super precision
UP	Ultra precision

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



IKO C-Lube Linear Roller Way Super MX

Low profile flange type mounting from top

Shape

MXN

Size

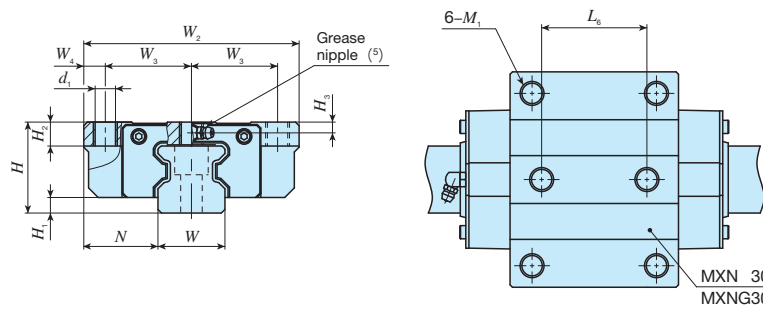
30

35

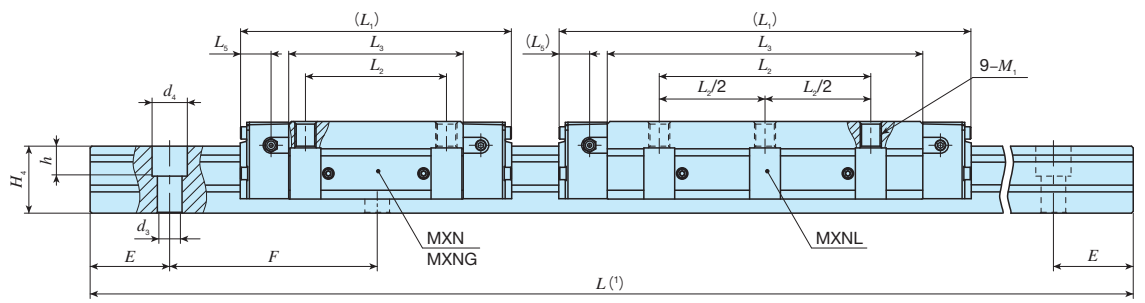
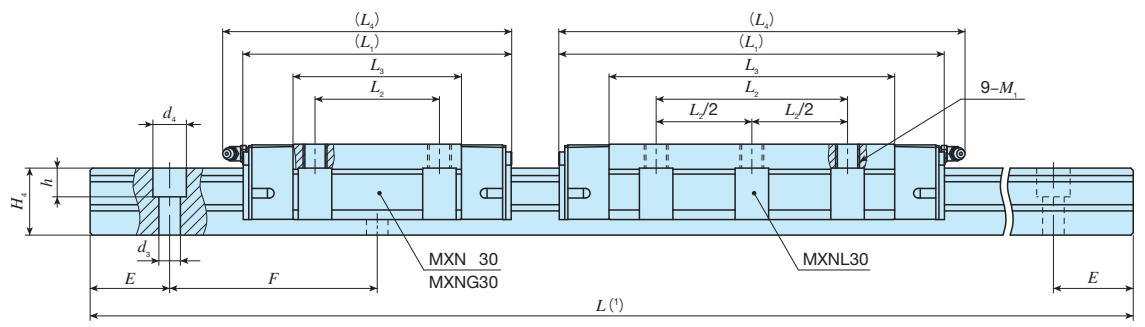
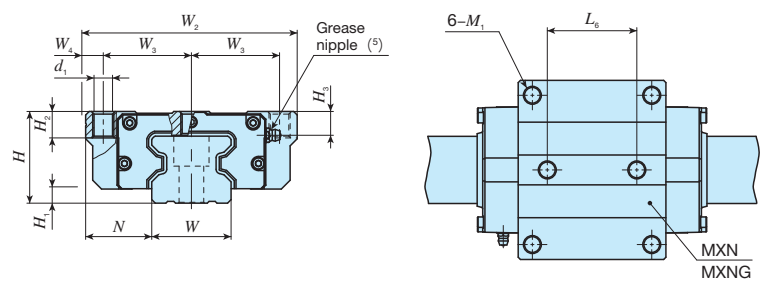
45

55

MXN 30
MXNG 30
MXNL 30

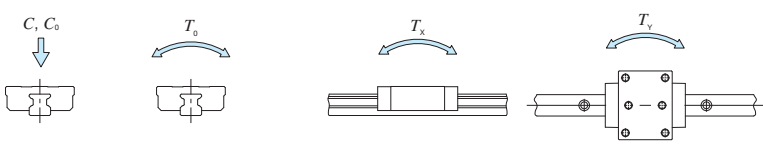


MXN
MXNG
MXNL



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	H1	N	W2	W3	W4	L1	L2	L3	L4	L5	L6	d1	M1	Maximum fixing thread depth (2)	H2	H3	W	H4	d3	d4	h	E	F		C N	C0 N	T0 N·m	Tx N·m	Ty 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	52	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																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	62	106.6																	74 200	135 000	2 930	2 440 13 800	2 440 13 800
MXNL 35	-	-	2.71								184	100	138.6																	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	80	139																	124 000	223 000	6 200	5 220 29 000	5 220 29 000
MXNL 45	-	-	4.72								234	120	179																	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	95	174																	198 000	359 000	11 700	10 400 57 000	10 400 57 000
MXNL 55	-	-	8.87								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) 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

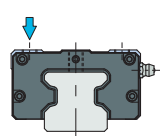
⑨ Special specification
A, D, E, F, HP, I, J, L, LF
MA, RC, T, UR, V, W, Z

MX · LRX

Low profile block type mounting from top

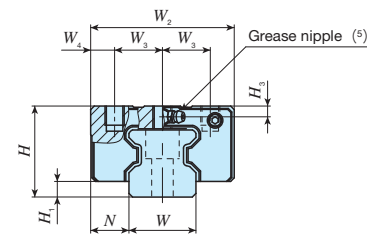
Shape

MXNS

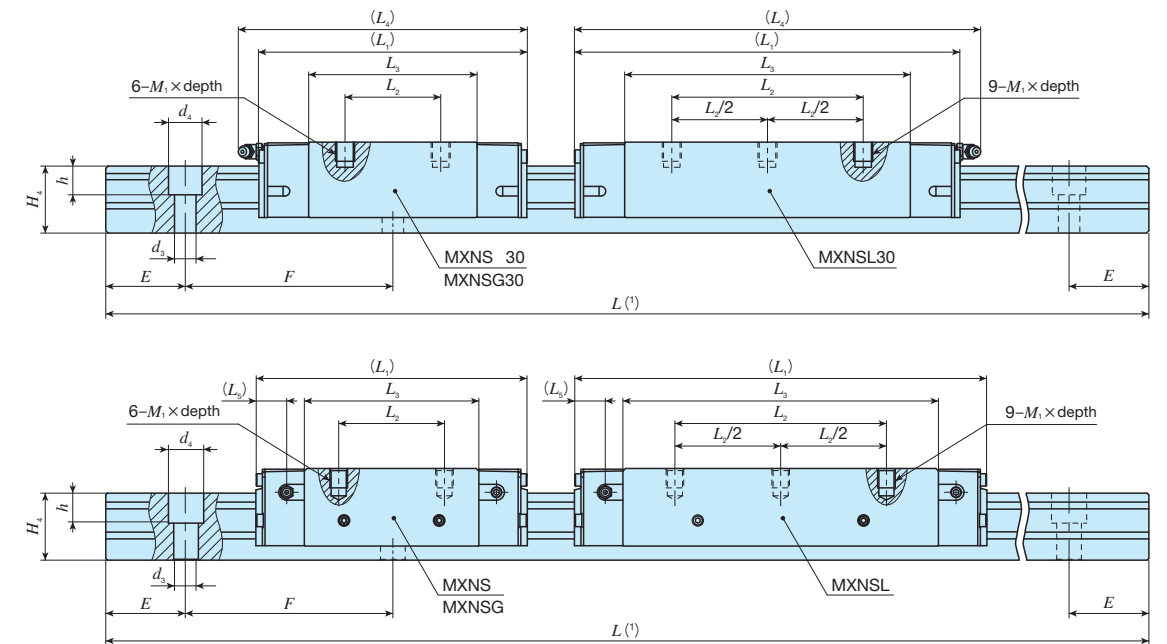
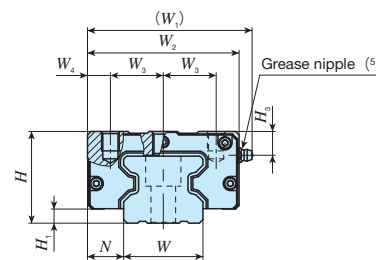


Size	30	35	45	55
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MXNS	30
MXNSG	30
MXNSL	30



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	5.01	38	6.5	16	—	60	20	10	113	40	70.4	121	—	M 8× 8		9	4.5	28	28	9	14	12	40	80	M 8×28	43 400	74 400	1 350	883 5 780	883 5 780	
MXNSG 30	—	○	0.90									134	60	91.4	142														53 200	96 700	1 750	1 470 8 740	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 13 600	
MXNS 35	—	○	1.08	6.88	44	6.5	18	78	70	25	10	124	50	78.6	—	12.7	M 8× 9		11	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	
MXNSG 35	—	○	1.42									152	72	106.6															—	2 440 13 800	2 440 13 800			
MXNSL 35	—	—	1.81									184	100	138.6															—	4 060 21 300	4 060 21 300			
MXNS 45	—	○	1.84	10.8	52	8	20.5	94	86	30	13	154	60	99	—	17.5	M10×11		13	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	
MXNSG 45	—	○	2.58									194	80	139															—	5 220 29 000	5 220 29 000			
MXNSL 45	—	—	3.29									234	120	179															—	8 560 44 400	8 560 44 400			
MXNS 55	—	○	3.31	14.1	63	9	23.5	110	100	37.5	12.5	184	75	120	—	20	M12×15		19	16	53	43	16	23	20	60	120	M14×45	148 000	248 000	8 040	5 040 31 100	5 040 31 100	
MXNSG 55	—	○	4.83									238	95	174															—	10 400 57 000	10 400 57 000			
MXNSL 55	—	—	6.28									292	150	228															—	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 the slide unit mounting hole, the value indicated in Table 10-2 on page 110 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_0), basic static load rating (C_p), 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.

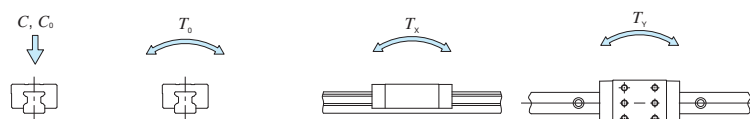
(5) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page II - 188.

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	③ Size 30, 35, 45, 55	⑥ Preload amount No symbol Standard T ₁ Light preload T ₂ Medium preload T ₃ Heavy preload	⑧ Interchangeable No symbol Non-interchangeable specification S ₁ S ₁ specification S ₂ S ₂ specification
② Length of slide unit No symbol Standard G Long L Extra long	④ Number of slide unit (2) ⑤ Length of track rail (3,000 mm)	⑦ Accuracy class H High P Precision SP Super precision UP Ultra precision	⑨ Special specification A, D, E, F, HP, I, J, L, LF MA, RC, T, UR, V, W, Z