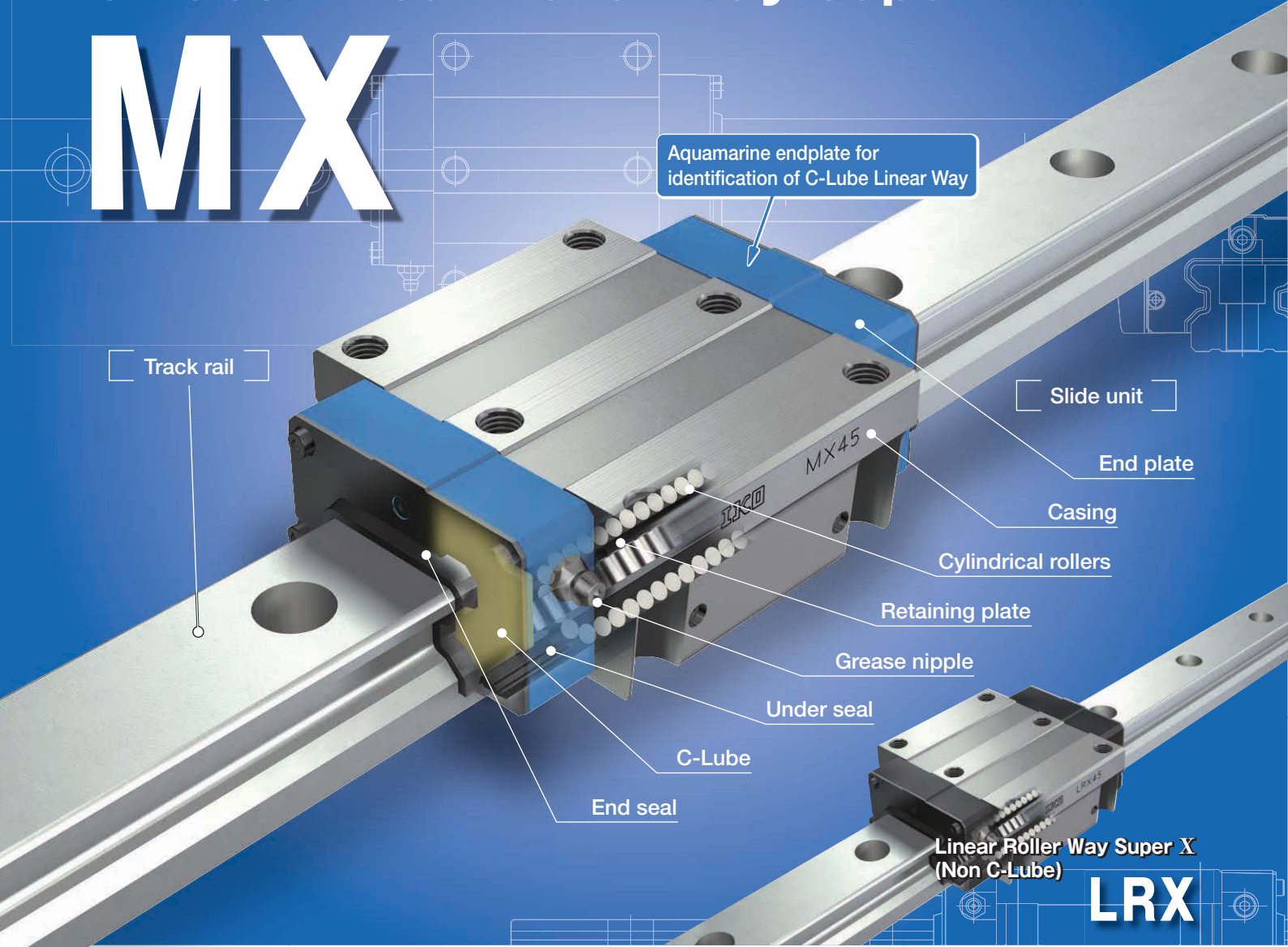


C-Lube Linear Roller Way Super MX

Linear Roller Way Super X

C-Lube Linear Roller Way Super MX



Features

Super high rigidity

Rigidity of linear motion rolling guide has a large influence to the performance of machines or equipment in which they are assembled. Very high rigidity of C-Lube Linear Roller Way Super MX is achieved owing to the excellent elastic deformation characteristics of cylindrical rollers which give smaller elastic deformation under load as compared with steel balls. In addition, a large number of cylindrical rollers are incorporated in the slide unit.

Accurate positioning with excellent friction characteristics

As compared with the slide guides and ball type linear motion rolling guides, roller type has superior frictional characteristics and gives lower frictional resistance under preload. Good response to micro feeding and high positioning accuracy can thus be achieved.

Excellent vibration damping characteristics

As compared with ball types in the same size, C-Lube Linear Roller Way Super MX has higher rigidity and gives much smaller deformation value under repeated fluctuating load. The natural frequency is high, and the vibration damping time can be very short.

Maintenance free for saving-resources

Maintenance free has the ability to maintain lubrication for a long time, reducing the amount of labor required for troublesome lubrication maintenance. The capillary lubrication body continuously supplies lubricant for long period of time even after original grease inside is completely exhausted.

Interchangeability among types of slide unit

Various types of slide units with different sectional shapes and lengths are prepared. All of these slide units can be mounted on the same track rails freely as required.

Identification number and specification

The specification of C-Lube Linear Roller Way Super MX is identified by the identification number, which consists of a model code, a size, a part code, a preload symbol, a classification symbol, interchangeable code and optional supplemental codes.

Interchangeable specification									
1	2	3	4	5	6	7	8	9	10
Slide unit only	MX	G	15	C1		T ₁	P	S1	/Z
Track rail only ⁽¹⁾	LRX		15		R240		P	S1	
Set product	MX	G	15	C2	R240		T ₁	P	S1 /Z
Non-interchangeable specification									
Set product	MX	G	15	C2	R240		T ₁	P	/Z

1 Series

Model code on page II-151

2 Length of slide unit

3 Size of rolling guide

Size on page II-151

4 Number of slide unit

Part code on page II-152

5 Length of track rail

6 Material

Material symbol on page II-152

7 Preload

Preload symbol on page II-155

8 Accuracy class

Classification symbol on page II-156

9 Interchangeable

Interchangeable code on page II-157

10 Optional specification

Supplemental code on page II-157

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

Identification number and specification

1 Series

C-Lube Linear Roller Way Super X (MX Series)

Flange type mounted from top/bottom : MX⁽²⁾

Block type mounted from top : MXD

Compact block type mounting from top : MXS

Low section flange type mounted from top : MXN

Low section block type mounted from top : MXNS

Linear Roller Way Super X⁽¹⁾ (LRX Series)

Flange type mounted from top/bottom : LRX⁽²⁾

Block type mounted from top : LRXD

Compact block type mounting from top : LRXS

Applicable size and shape of slide unit are shown in Table 1.1 and 1.2.
For the model code of a single track rail of interchangeable specification, indicate "LRX" regardless of the slide unit type to be combined.

Note⁽¹⁾ : Linear Roller Way without C-Lube.
Note⁽²⁾ : MX20 (LRX20) can be mounted from top only. MXH20 (LRXH20) can be mounted from bottom, which has the same dimensions as those of above models.

2 Length of slide unit

Short : C

Standard : No symbol

High rigidity long : G

Extra high rigidity long : L

Applicable size and shape of slide unit are shown in Table 1.1 and 1.2.

3 Size of rolling guide

10, 12, 15, 20, 25, 30, 35, 45, 55, 65, 85, 100

Applicable size and shape of slide unit are shown in Table 1.1 and 1.2.

Table 1.1 Model and size of MX and LRX

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

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

—Number of slide units · Length of track rail · Material—

4 Number of slide units

: C○

For an assembled set, indicates the number of slide units assembled on one track rail. For an interchangeable slide unit only, "C1" can be indicated.

5 Length of track rail

: R○

Indicate the length of track rail in mm.
For standard and maximum lengths, see "Track rail length" in Table 2.1, 2.2, 2.3, 2.4.

6 Material

High carbon steel made : No symbol

Stainless steel made : SL

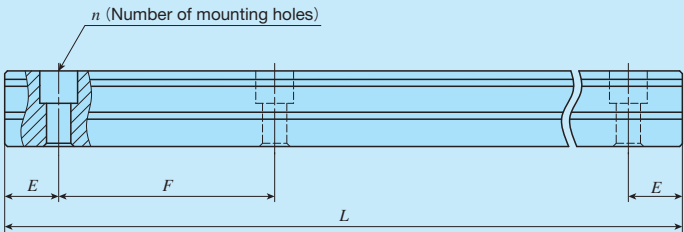
For available material types, see Tables 1.1 and 1.2.

Table 1.2 Model and size of MX and LRX

Material	Shape	Length of slide unit	Model code	Size											
				10	12	15	20	25	30	35	45	55	65	85	100
High carbon steel made	Compact block type mounted from top	Short	MXSC	—	—	○	○	○	○	—	—	—	—	—	—
			LRXSC	—	—	○	○	○	○	—	—	—	—	—	—
		Standard	MXS	—	—	○	○	○	○	○	○	○	—	—	—
			LRXS	—	—	○	○	○	○	—	—	—	—	—	—
		High rigidity long	MXSG	—	—	○	○	○	○	○	○	○	—	—	—
	Low section flange type mounted from top		LRXSG	—	—	○	○	○	○	—	—	—	—	—	—
		Extra high rigidity long	MXSL	—	—	—	○	○	○	—	—	—	—	—	—
		Standard	MXN	—	—	—	—	—	○	○	○	○	—	—	—
		High rigidity long	MXNG	—	—	—	—	—	○	○	○	○	—	—	—
		Extra high rigidity long	MXNL	—	—	—	—	—	○	○	○	○	—	—	—
	Low section block type mounted from top	Standard	MXNS	—	—	—	—	—	○	○	○	○	—	—	—
		High rigidity long	MXNSG	—	—	—	—	—	○	○	○	○	—	—	—
		Extra high rigidity long	MXNSL	—	—	—	—	—	○	○	○	○	—	—	—
Stainless steel made	Block type mounted from top	Short	LRXDC...SL	—	○	○	○	○	○	—	—	—	—	—	—
		Standard	MXD...SL	—	○	○	○	○	○	—	—	—	—	—	—
			LRXD...SL	○	○	○	○	○	○	—	—	—	—	—	—
		High rigidity long	LRXDG...SL	—	○	○	○	○	○	—	—	—	—	—	—

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

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



unit : mm

Item	Model number	MX 12 LRX12	MX 15 LRX15	MX 20 LRX20	MX 25 LRX25	MX 30 LRX30	MX 35 LRX35
Standard length $L(n)$		80 (2) 160 (4) 240 (6) 320 (8) 400 (10) 480 (12) 560 (14) 640 (16) 720 (18)	180 (3) 240 (4) 360 (6) 480 (8) 660 (11)	240 (4) 480 (8) 660 (11) 840 (14) 1 020 (17) 1 200 (20) 1 500 (25)	240 (4) 480 (8) 660 (11) 840 (14) 1 020 (17) 1 200 (20) 1 500 (25)	480 (6) 640 (8) 800 (10) 1 040 (13) 1 200 (15) 1 520 (19)	480 (6) 640 (8) 800 (10) 1 040 (13) 1 200 (15) 1 520 (19)
	Pitch of mounting holes F	40	60	60	60	80	80
	E	20	30	30	30	40	40
	Standard range of $E^{(1)}$	incl. 5.5	7	8	9	10	10
		under 25.5	37	38	39	50	50
	Maximum length ⁽²⁾	1 480	1 500 (1 980)	1 980 (3 000)	3 000 (3 960)	2 960 (4 000)	2 960 (4 000)
Item	Model number	MX 45 LRX45	MX 55 LRX55	MX 65 LRX65	LRX85	LRXG100	
Standard length $L(n)$		840 (8) 1 050 (10) 1 260 (12) 1 470 (14) 1 995 (19)	840 (7) 1 200 (10) 1 560 (13) 1 920 (16) 3 000 (25)	1 500 (10) 1 950 (13) 3 000 (20)	1 620 (9) 1 980 (11) 2 340 (13) 2 700 (15)	1 500 (10) 1 950 (13) 3 000 (20)	
	Pitch of mounting holes F	105	120	150	180	150	
	E	52.5	60	75	90	75	
	Standard range of $E^{(1)}$	incl. 12.5	15	17	23	29	
		under 65	75	92	113	104	
	Maximum length ⁽²⁾	2 940 (3 990)	3 000 (3 960)	3 000 (3 900)	2 880	3 000	

Note⁽¹⁾ : Not applicable to the track rail with female threads for bellows (supplemental code "/J").⁽²⁾ : Track rails with the maximum lengths shown in parentheses can also be manufactured. Consult **IKO** for further information.

Remark 1 : For half pitch of track rail mounting holes (supplemental code "/HP"), the maximum length is 2970mm.

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

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

Table 2.2 Standard and maximum lengths of Stainless steel track rail

unit : mm

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

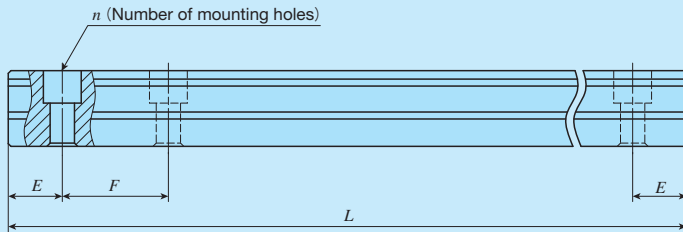
Note⁽¹⁾ : Not applicable to the track rail with female threads for bellows (supplemental code "/J").⁽²⁾ : Track rails with the maximum lengths shown in parentheses can also be manufactured. Consult **IKO** for further information.

Remark 1 : For half pitch of track rail mounting holes (supplemental code "/HP"), the maximum length is 2970mm.

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

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

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



unit : mm

Item	Model number	MX 12.../HP LRX12.../HP	MX 15.../HP LRX15.../HP	MX 20.../HP LRX20.../HP	MX 25.../HP LRX25.../HP	MX 30.../HP LRX30.../HP	MX 35.../HP LRX35.../HP
Standard length $L(n)$		80 (4) 160 (8) 240 (12) 320 (16) 400 (20) 480 (24) 560 (28) 640 (32) 720 (36)	180 (6) 240 (8) 360 (12) 480 (16) 660 (22)	240 (8) 480 (16) 660 (22) 840 (28) 1 020 (34) 1 200 (40) 1 500 (50)	480 (16) 660 (22) 840 (28) 1 020 (34) 1 200 (40) 1 500 (50)	480 (12) 640 (16) 800 (20) 1 040 (26) 1 200 (30) 1 520 (38)	480 (12) 640 (16) 800 (20) 1 040 (26) 1 200 (30) 1 520 (38)
	Pitch of mounting holes F	20	30	30	30	40	40
	E	10	15	15	15	20	20
	Standard range of $E^{(1)}$	incl. 5.5	7	8	9	10	10
		under 15.5	22	23	24	30	30
	Maximum length ⁽²⁾	1 480	1 500 (1 980)	1 980 (3 000)	3 000 (3 960)	2 960 (4 000)	2 960 (4 000)
Item	Model number	MX 45.../HP LRX45.../HP	MX 55.../HP LRX55.../HP	MX 65.../HP LRX65.../HP	MX 85.../HP LRX85.../HP		
Standard length $L(n)$		840 (16) 1 050 (20) 1 260 (24) 1 470 (28) 1 995 (38)	840 (14) 1 200 (20) 1 560 (26) 1 920 (32) 3 000 (50)	1 500 (20) 1 950 (26) 3 000 (40)	1 620 (18) 1 980 (22) 2 340 (26) 2 700 (30)		
	Pitch of mounting holes F	52.5	60	75	90		
	E	26.25	30	37.5	45		
	Standard range of $E^{(1)}$	incl. 12.5	15	17	23		
		under 38.75	45	54.5	68		
	Maximum length ⁽²⁾	2 940 (3 990)	3 000 (3 960)	3 000 (3 900)	2 970		

Note⁽¹⁾ : Not applicable to the track rail with female threads for bellows (supplemental code "/J").⁽²⁾ : Track rails with the maximum lengths shown in parentheses can also be manufactured. Consult **IKO** for further information.

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

2 : When ordering track rail only, model code should be changed as shown below.

MX / MXD / MXS → LRX (Ex: LRX15R240HS2)

Table 2.4 Standard and maximum lengths of Stainless steel track rail (Half pitch of track rail mounting holes specification /HP)

unit : mm

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

Note⁽¹⁾ : Not applicable to the track rail with female threads for bellows (supplemental code "/J").⁽²⁾ : Track rails with the maximum lengths shown in parentheses can also be manufactured. Consult **IKO** for further information.

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

2 : When ordering track rail only, model code should be changed as shown below.

MX / MXD / MXS → LRX (Ex: LRX15R240HS2)

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 applicable preload amount, see Table 3. For details of preload amount, see Table 4.
Heavy preload	: T ₃	

Table 3 Preload amount

Item	Symbol	Preload amount N	Application
Preload type			
Standard	(No Symbol)	0 ⁽¹⁾	· Very smooth motion
Light preload	T ₁	0.02 C ₀	· Minimum vibration · Load is evenly balancedLoad is evenly balanced · Smooth and precise motion
Medium preload	T ₂	0.05 C ₀	· Medium vibration · Medium overhung load
Heavy preload	T ₃	0.08 C ₀	· Vibration and / or shocks · Large overhung load · Heavy cutting

Note⁽¹⁾ : Zero or minimal amount of preload.
Remark : C₀ means the basic static load rating.

Table 4 Applicable preload

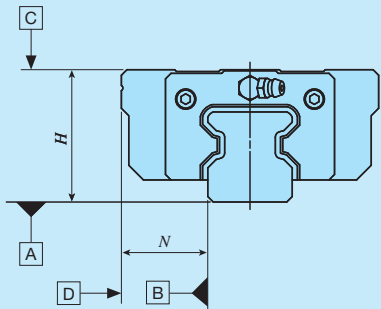
Size	Preload class and code			
	Standard (No symbol)	Light preload (T ₁)	Medium preload (T ₂)	Heavy preload (T ₃)
10	○	○	—	—
12	○	○	○	○
15	○	○	○	○
20	○	○	○	○
25	○	○	○	○
30	○	○	○	○
35	○	○	○	○
45	○	○	○	○
55	○	○	○	○
65	○	○	○	○
85	○	○	○	○
100	○	○	○	○

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

8 Accuracy class

High	: H	Super precision class (SP) and Ultra precision class (UP) are applicable to Non-interchangeable products only. In the interchangeable specification, please combine the same accuracy codes on both slide unit and track rail.
Precision	: P	
Super precision	: SP	
Ultra precision	: UP	

Table 5 Accuracy of Linear Way and Linear Roller Way



unit : mm

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 C to A	See Fig. 1.			
Parallelism in operation of D to B	See Fig. 1.			

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

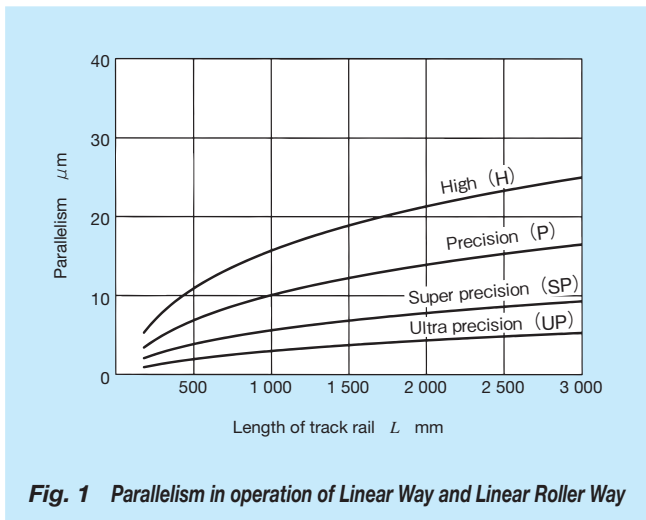


Table 6 Accuracy class and size

Size	Accuracy class			
	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 specification

Interchangeable

: S2

In C-Lube Linear Roller Way, slide unit and track rail can be supplied separately by indicating interchangeable code S2.

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 Table 7.1, 7.2, 7.3, 7.4. When several special specifications are combined, see Table 8. For details of special specifications, see page III-17.

Table 7.1 Special specifications (Interchangeable specification, Single slide units)

Optional 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	—	○	○	○	○	○	○	○	—	—	—	—
C-Lube plates ⁽⁴⁾	/Q	—	○	○	○	○	○	○	○	○	○	—	—
Double end seals	/VO	—	○	○	○	○	○	○	○	○	○	—	—
Scrapers	/ZO	—	○	○	○	○	○	○	○	○	○	—	—

Note⁽¹⁾ : Applicable to MX, MXG, MXH20 and MXHG20.

⁽²⁾ : Not applicable to stainless steel type.

⁽³⁾ : Not applicable to low section frange and block type, and size 55 and 65.

⁽⁴⁾ : Applicable to LRX series

Table 7.2 Special specifications (Single track rail)

Optional 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 of track rail mounting holes	/HP	—	○	○	○	○	○	○	○	○	○	—	—
Female threads for bellows ⁽¹⁾	/JO	—	—	○	○	○	○	○	○	○	○	—	—
Black chrome surface treatment	/LO	—	○	○	○	○	○	○	○	○	○	—	—
Without track rail mounting bolts	/MN	—	○	○	○	○	○	○	○	○	○	—	—
Butt-jointing interchangeable track rail	/T	—	○	○	○	○	○	○	○	○	○	—	—

Note⁽¹⁾ : Not applicable to stainless steel type.

Table 7.3 Special specifications (Assembled set)

Optional 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 of track rail mounting holes	/HP	—	○	○	○	○	○	○	○	○	○	—	—
Female threads for bellows ⁽²⁾	/JO	—	—	○	○	○	○	○	○	○	○	—	—
Black chrome surface treatment	/LO	—	○	○	○	○	○	○	○	○	○	—	—
Fluorine black chrome surface treatment	/LFO	—	○	○	○	○	○	○	○	○	○	—	—
With track rail mounting bolts ⁽³⁾	/MA	—	○	○	○	○	○	○	○	○	○	—	—
Without track rail mounting bolts ⁽³⁾	/MN	—	○	○	○	○	○	○	○	○	○	—	—
No end seal ⁽⁵⁾	/N	—	○	○	○	○	○	○	○	—	—	—	—
C-Lube plates ⁽⁴⁾	/Q	—	○	○	○	○	○	○	○	○	○	—	—
Butt-jointing interchangeable track rail	/T	—	○	○	○	○	○	○	○	○	○	—	—
Double end seals	/VO	—	○	○	○	○	○	○	○	○	○	—	—
Specified grease ⁽⁴⁾	/YO	—	○	○	○	○	○	○	○	○	○	—	—
Scrapers	/ZO	—	○	○	○	○	○	○	○	○	○	—	—

Note⁽¹⁾ : Applicable to MX, MXG, MXH20 and MXHG20.

⁽²⁾ : Not applicable to stainless steel type.

⁽³⁾ : Applicable to MX series

⁽⁴⁾ : Applicable to LRX series

⁽⁵⁾ : Not applicable to low section frange and block type, and size 55 and 65.

Table 7.4 Special specifications (Non interchangeable specification)

Optional 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 of track rail mounting holes	/HP	—	○	○	○	○	○	○	○	○	○	○	—
Inspection sheet	/I	○	○	○	○	○	○	○	○	○	○	○	○
Female threads for bellows	/JO	—	—	○	○	○	○	○	○	○	○	○	—
Black chrome surface treatment	/LO	—	○	○	○	○	○	○	○	○	○	—	—
Fluorine black chrome surface treatment	/LFO	—	○	○	○	○	○	○	○	○	○	—	—
With track rail mounting bolts ⁽²⁾	/MA	—	○	○	○	○	○	○	○	○	○	—	—
Without track rail mounting bolts ⁽³⁾	/MN	○	○	○	○	○	○	○	○	○	○	○	○
No end seal ⁽⁴⁾	/N	○	○	○	○	○	○	○	○	—	—	—	—
Rail cover plate for track rail ⁽³⁾	/PS	—	—	—	—	—	—	○	○	○	—	—	—
C-Lube plates ⁽³⁾	/Q	○	○	○	○	○	○	○	○	○	○	○	—
C-Wiper ^{(2) (5)}	/RCO	—	—	—	○	○	○	○	○	○	○	—	—
Inner seal ⁽²⁾	/UR	—	—	—	○	○	○	○	○	○	○	—	—
Double end seals	/VO	—	○	○	○	○	○	○	○	○	○	○	○
Matched sets to be used as an assembled group	/WO	○	○	○	○	○	○	○	○	○	○	—	—
Specified grease ⁽³⁾	/YO	○	○	○	○	○	○	○	○	○	○	○	○
Scrapers	/ZO	—	○	○	○	○	○	○	○	○	○	○	○

Note⁽¹⁾ : Applicable to MX, MXG, MXH20 and MXHG20.

⁽²⁾ : Applicable to MX series

⁽³⁾ : Applicable to LRX series

⁽⁴⁾ : Not applicable to low section frange and block type, and size 55 and 65.

⁽⁵⁾ : /RC includes /UR and /Z as standard..

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

2: For the size 15 and 20 of flange type and compact block type, the dimension a5 is higher than H dimension. For details, consult **IKO** for future information.

Table 10.2 Female threads for bellows (For single slide unit /J, For assembled set /J /JJ)

Size : 35, 45, 55, 65, 85

Flange type

Block type,
Compact Block type

unit : mm

Model number		Slide unit								Track rail		
		a_1	a_2	b_1	b_2	b_3	b_4	$M_1 \times \text{depth}$	$L_1^{(1)}$	a_3	a_4	$M_2 \times \text{depth}$
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	31	9	108	M5×10	191	14	28	M6×12
—	LRXC 65								192			
MX 65	—								255			
—	LRX 65								256			
MXG 65	—	8.7	37	47.5	31	9	108	M5×10	319	14	28	M6×12
—	LRXG 65								320			
MXL 65	—								391			
MXDC 65	—								391			
—	LRXDC 65	8.7	37	47.5	31	9	108	M5×10	191	14	28	M6×12
—	LRXD 65								192			
—	LRXD 65								255			
—	LRXD 65								256			
MXDG 65	—	8.7	37	47.5	31	9	108	M5×10	319	14	28	M6×12
—	LRXDG 65								320			
MXDL 65	—								391			
—	—								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			

Note⁽¹⁾ : The values for the slide unit with female threads for bellow mounting at the both ends.

Table 10.3 Female threads for bellow mounting (For single slide unit /J, For assembled set /J /JJ)

Size : 30 Size : 35 Size : 45 Size : 55

Low section flange type

Size : 30 Size : 35 Size : 45 Size : 55

Low section block type

Grease nipple (A-M4)

Size : 30 Size : 35, 45, 55

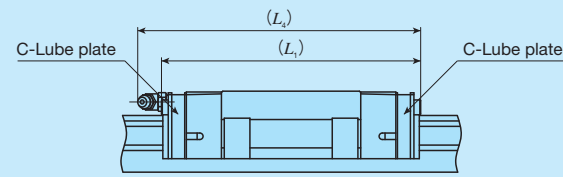
unit : mm

Model number	Slide unit									Track rail						
	a_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								149								
MXNSL 30	2	16	30	40	20	60	M3×6	177	—	8	16	M4× 8				
MXN 35								131								
MXNG 35			15		5			159								
MXNL 35								191								
MXNS 35								131								
MXNSG 35	1	21	35	50	23	74	M4×8	159	—	10	19	M5×10				
MXNSL 35								191								
MXN 45			18		6			163								
MXNG 45								203								
MXNL 45								243								
MXNS 45	0	27	40	60	26	88	M4×8	163	—	10	24	M5×10				
MXNSG 45								203								
MXNSL 45			20		6			243								
MXN 55								193								
MXNG 55								247								
MXNL 55	0	27	40	60	26	88	M4×8	301	—	10	24	M5×10				
MXNS 55								193								
MXNSG 55								247								
MXNSL 55	0	27	20	60	6	88	M4×8	301	—	10	24	M5×10				
—								247								
—								301								

Note⁽¹⁾ : Values a_1 are the dimension between C-surface (upper surface of slide unit) and the center of female thread.Note⁽²⁾ : The values for the slide unit with female threads for bellow mounting at the both ends.Remark : The dimension a_5 is higher than H dimension. For details, consult IKO for future information.

Table 11.1 Slide unit with C-Lube plates (Supplemental code /Q)

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



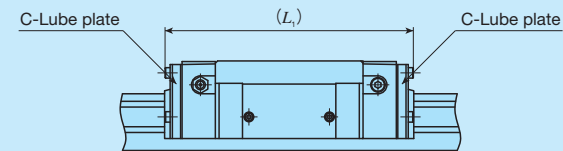
unit : mm

Model number	L_1	L_4
LRXD 10...SL	43.5	—
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

Remark 1 : The values for the slide unit with C-Wipers at both ends.
 2 : The table shows representative model numbers only and is also applicable to all models in the same size..

Table 11.2 Slide unit with C-Lube plates (Supplemental code /Q)

Size : 35, 45, 55, 65, 85



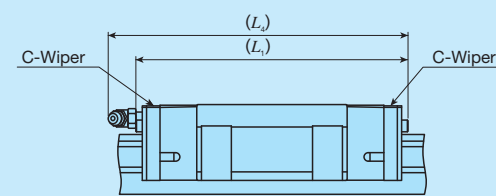
unit : mm

Model 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

Remark 1 : The values for the slide unit with C-Wipers at both ends.
 2 : The table shows representative model numbers only and is also applicable to all models in the same size..

Table 12.1 Slide unit with C-Wipers (Supplemental code /RC /RCC)

Size : 20, 25, 30



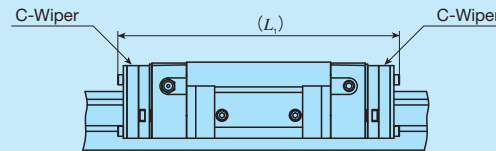
unit : mm

Model 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		162
MXNG 30	149	159
MXL 30		190
MXNL 30	177	187

Remark 1 : The values for the slide unit with C-Wipers at both ends.
 2 : The table shows representative model numbers only and is also applicable to all models in the same size..

Table 12.2 Slide unit with C-Wipers (Supplemental code /RC /RCC)

Size : 35, 45, 55, 65



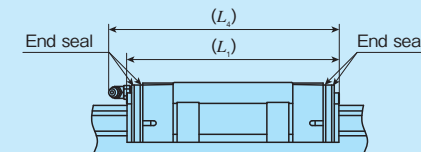
unit : mm

Model 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

Remark 1 : The values for the slide unit with C-Wipers at both ends.
 2 : The table shows representative model numbers only and is also applicable to all models in the same size.

表13.1 Slide unit with double end seals (Supplemental code /V, /VV)

Size : 12, 15, 20, 25, 30



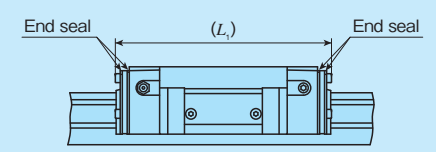
unit : mm

Model number	L_1	L_4
MXC 12	49	52
LRXC 12	44	46
MX 12	58	61
LRX 12	54	57
MXG 12	70	72
LRXG 12	65	67
MXC 15	58	60
MX 15	74	76
MXG 15	90	92
MXC 20	73	83
MX 20	93	103
MXG 20	113	123
MXL 20	—	135
MXC 25	83	92
MX 25	107	116
MXG 25	122	131
MXL 25	—	146
MXC 30	93	106
MX 30	121	134
MXN 30	—	131
MXG 30	142	155
MXNG 30	—	152
MXL 30	—	183
MXNL 30	170	180

Remark 1 : The values for the slide unit with double end seals at both ends.
 2 : The table shows representative model numbers only and is also applicable to all models in the same size.

表13.2 Slide unit with double end seals (Supplemental code /V, /VV)

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



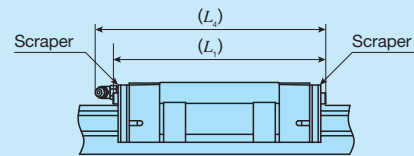
unit : mm

Model number	L_1
MXC 35	101
MX 35	133
MXG 35	161
MXL 35	—
MXC 45	127
MX 45	167
MXG 45	207
MXL 45	—
MXC 55	149
MX 55	197
MXG 55	251
MXL 55	—
MXC 65	192
LRXC 65	193
MX 65	256
LRX 65	257
MXG 65	320
LRXG 65	321
MXL 65	—
—	392
—	338
—	410
—	509
—	376

Remark 1 : The values for the slide unit with double end seals at both ends.
 2 : The table shows representative model numbers only and is also applicable to all models in the same size.

Table 14.1 Slide unit with scrapers
(Supplemental code /Z, /ZZ)

Size : 12, 15, 20, 25, 30



unit : mm

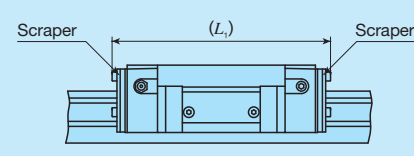
Model number		L_1	L_4
MXC 12		50	53
	LRXC 12	45	48
MX 12		60	63
	LRX 12	56	58
MXG 12		71	74
	LRXG 12	66	69
MXC 15	LRXC 15	60	61
MX 15	LRX 15	76	77
MXG 15	LRXG 15	92	93
MXC 20	LRXC 20	74	83
MX 20	LRX 20	94	103
MXG 20	LRXG 20	114	123
MXL 20	—	137	146
MXC 25	LRXC 25	85	93
MX 25	LRX 25	109	117
MXG 25	LRXG 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

Remark 1 : The values are the slide unit lengths with scrapers at both ends.

2 : The table shows representative model numbers and is also applicable to all models in the same size of MX series.

Table 14.2 Slide unit with scrapers
(Supplemental code /Z, /ZZ)

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



unit : mm

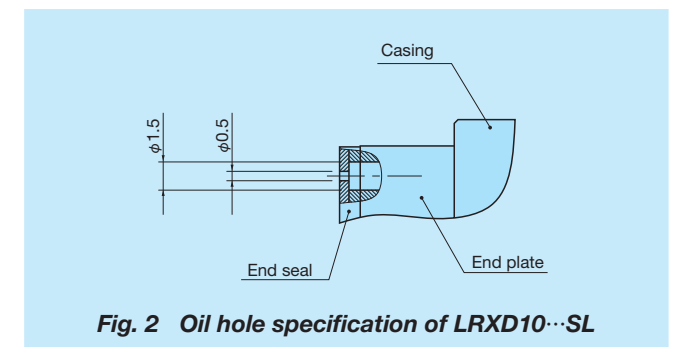
Model number			L_1
MXC 35	LRXC 35		103
MX 35	LRX 35		135
MXG 35	LRXG 35		163
MXL 35	—		195
MXC 45	LRXC 45		129
MX 45	LRX 45		169
MXG 45	LRXG 45		209
MXL 45	—		249
MXC 55	LRXC 55		151
MX 55	LRX 55		199
MXG 55	LRXG 55		253
MXL 55	—		305
MXC 65	LRXC 65		194
MX 65	LRX 65		258
MXG 65	LRXG 65		322
MXL 65	—		392
—	LRX 85		339
—	LRXG 85		411
—	LRXL 85		510
—	LRXG 100		378

Remark 1 : The values are the slide unit lengths with scrapers at both ends.

2 : The table shows representative model numbers and is also applicable to all models in the same size of MX series.

Lubrication

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

**Fig. 2 Oil hole specification of LRXD10...SL****Table 15 Parts for lubrication**

Size	Grease nipple ⁽¹⁾	Applicable supply nozzle		Nominal size of female threads for piping
10	Oil hole	Mini-grease injector		—
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		
35 ⁽⁵⁾	JIS 1 type			PT1/8
45 ⁽⁶⁾	JIS 2 type			
55				
65				
85				
100	A-PT1/4	PT1/4		

Note⁽¹⁾ : See Table 13.1, 13.2 on Page III-10 for specifications of grease nipples.

(2) : The grease nipple type is A-M3 when female threads for bellows (supplemental code of "/J") are specified.

(3) : The grease nipple type is A-M4 when female threads for bellows (supplemental code of "/J") are specified.

(4) : The grease nipple type of the MXN30 slide unit is B-M4. The grease nipple type is A-M4 when female threads for bellows (supplemental code of "/J") are specified.

(5) : The grease nipple mounting screw of the MXN35 slide unit is made smaller along the movement of the slide unit than in the traverse direction. Consult **IKO** when mounting the grease nipple along the movement of the slide unit.

(6) : The grease nipple type of the MXN45 slide unit is JIS 1.

Dust Protection

C-Lube Linear Roller Way Super MX is protected from dust by special rubber seals. But, if large amount of fine contaminants are present, or if large particles of foreign matters such as dust or chips may fall on the track rail, it is recommended to provide protective covers such as bellows for the entire linear motion mechanism. Bellows to match the dimensions of C-Lube Linear Way Super MX are optionally available. They are easy to mount and highly effective for dust protection. If required, consult .

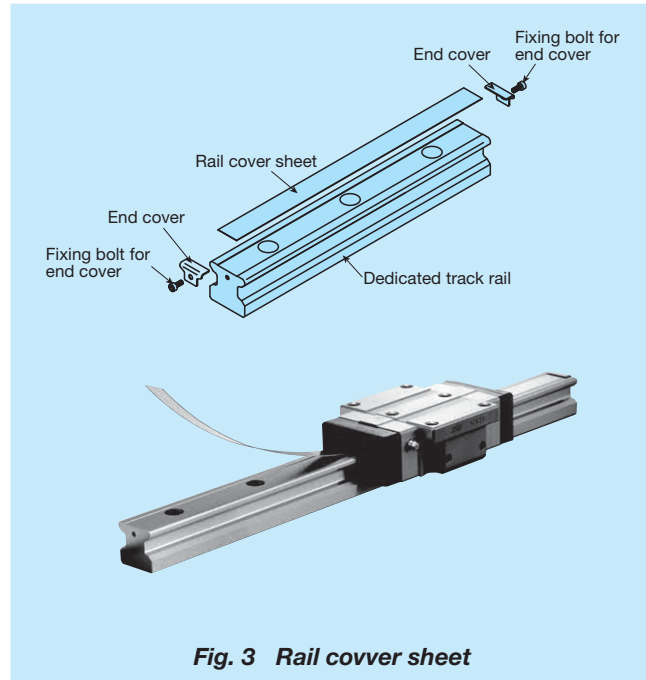


Fig. 3 Rail cover sheet

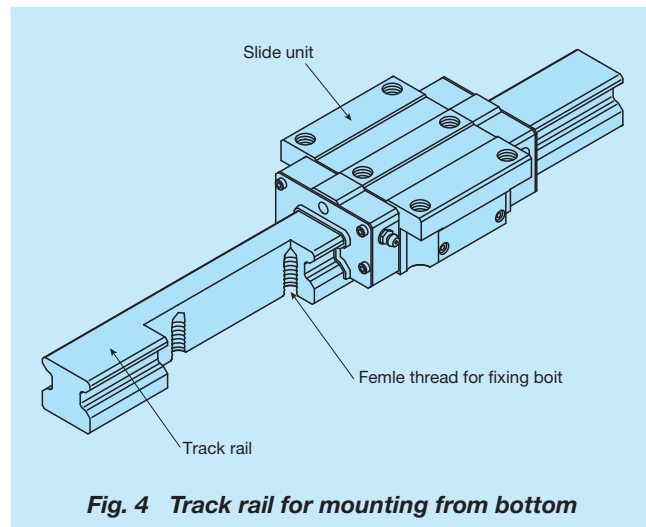


Fig. 4 Track rail for mounting from bottom

Precautions for Use

① **Mounting surface, reference mounting surface, and general**
Dedicated bellows are available to MX and LRX series slide units. They are easy to be mounted and have a great dust-proof effect. Consult IKO for further information.

IKO also provide cover tape (see Fig. 5) to cover the mounting holes of the track rail and top-mounted track rails (see Fig. 6) having no mounting holes on their top surfaces. The reference mounting surface of the track rail is on the upper side (in the arrow direction) when the IKO mark is normally viewed on the top of the track rail.

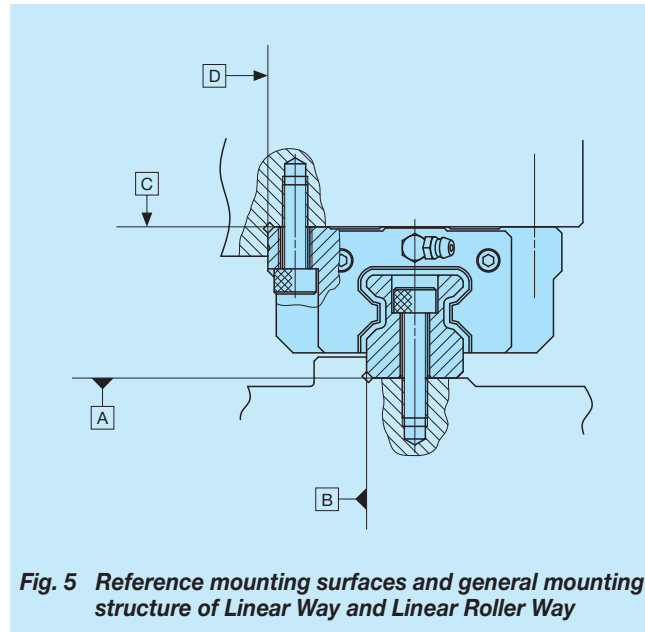


Fig. 5 Reference mounting surfaces and general mounting structure of Linear Way and Linear Roller Way

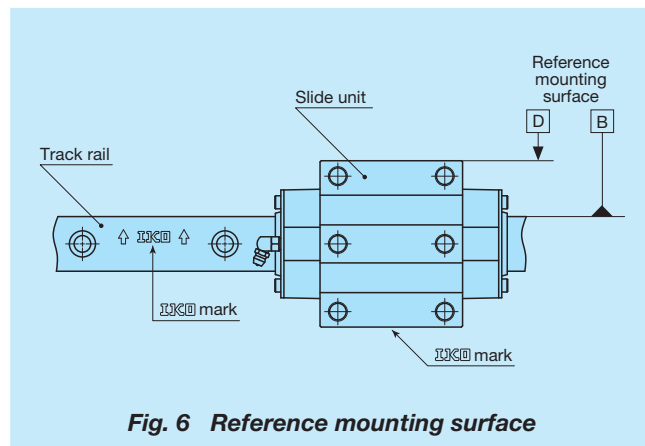


Fig. 6 Reference mounting surface

② Mounting slide unit

In the slide unit, mounting holes are also prepared on the middle of slide unit (see Table 16.1 and 16.2) to support any direction of load and moment in good balance.

It is recommended to fix all mounting holes to have full performance of products.

For mounting slide unit of Compact block type and Low section block type, insertion depth shown in Table 16.1 and 16.2 is recommended to keep certain fixing strength.

Similarly, the penetration depth of the mounting holes in the center of the slide unit width should be equal to or less than the maximum penetration depth in the Table.

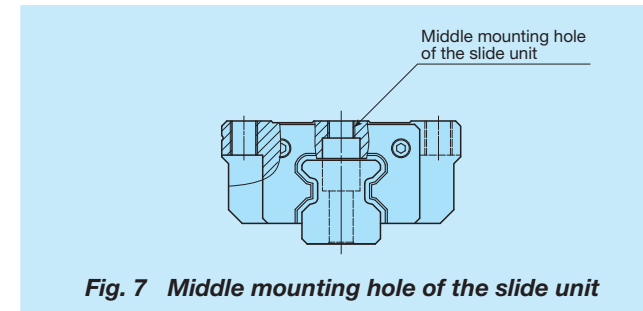


Fig. 7 Middle mounting hole of the slide unit

Table 16.1 Screwing depth of slide unit mounting holes for compact block type

Model number		Recommended minimum depth
MXS 15	LRXS 15	4.5
MXS 20	LRXS 20	5.5
MXS 25	LRXS 25	7
MXS 30	LRXS 30	9

Remark : The table shows representative model numbers and is also applicable to all models in the same size.

Table 16.2 Screwing depth of slide unit mounting holes for low section block type

Model number		Recommended minimum depth
MXNS 30		8
MXNS 35		8.5
MXNS 45		10.5
MXNS 55		14

Remark : The table shows representative model numbers and is also applicable to all models in the same size of low section block type.

③ Corner radius and shoulder height of reference mounting surfaces

It is recommended to make a relieved fillet at the corner of the mating reference mounting surfaces as shown in Fig. 8. Otherwise, corner radius R is recommended shown in Table 17. Table 17 shows recommended shoulder heights and radius of the reference mounting surfaces.

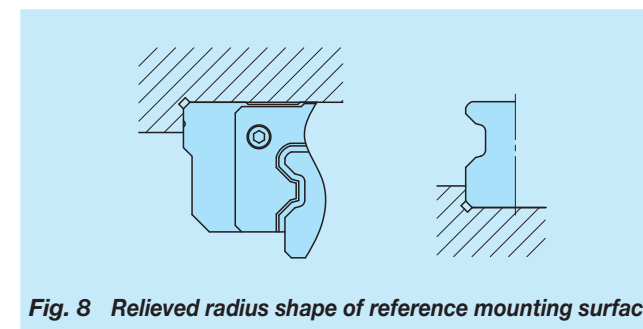


Fig. 8 Relieved radius shape of reference mounting surface

Table 17 Corner radius and shoulder height of reference mounting surfaces

unit : mm			
Size	Slide unit Shoulder height h_1	Track rail Shoulder height h_2	Relieved radius R (max.)
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 of mounting bolts

The standard torque values for Linear Way and Linear Roller Way mounting bolts are shown in Tables 18. When machines or equipment are subjected to severe vibration, shock, large fluctuating load, or moment load, the bolts should be tightened with a torque 1.2 to 1.5 times higher than the standard torque values shown.

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

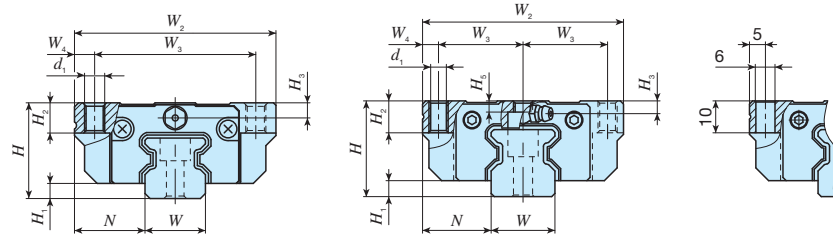
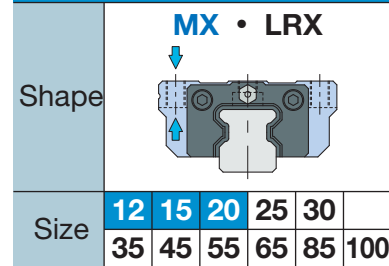
Table 18 Tightening torque of mounting bolts of Linear Way and Linear Roller Way

Bolt size	Tightening torque N·m	
	Carbon steel bolt	Stainless steel bolt
M 2.6×0.45	—	0.70
M 3 ×0.5	1.7	1.1
M 4 ×0.7	4.0	2.5
M 5 ×0.8	7.9	5.0
M 6 ×1	13.3	8.5
M 8 ×1.25	32.0	20.4
M10 ×1.5	62.7	—
M12 ×1.75	108	—
M14 ×2	172	—
M16 ×2	263	—
M20 ×2.5	512	—
M24 ×3	882	—
M30 ×3.5	1 750	—

Remark 1 : The recommended tightening torque is for strength division 12.9 or property division A2-70.

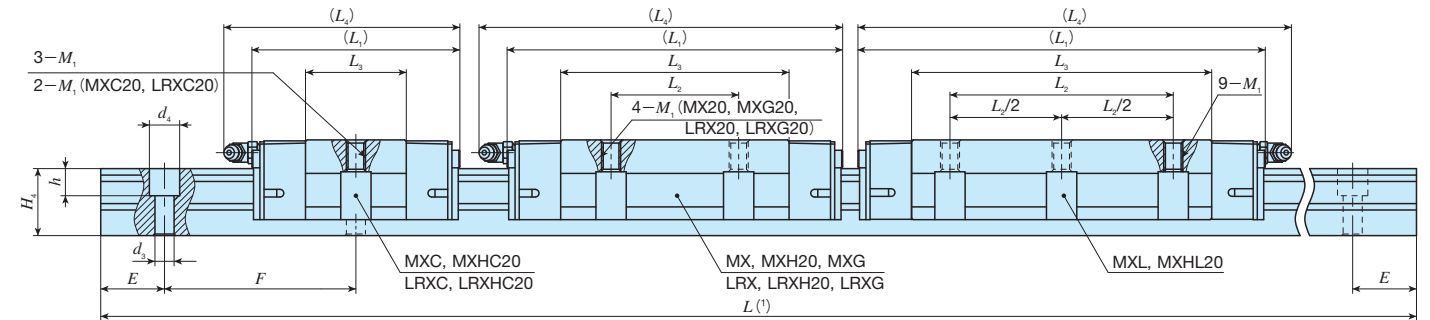
2 : For the flange type slide units (MXC, MX, MXG, MXL, LRXC, LRX, and LRXG) of Sizes 15, 20, 25, 30, and 35, recommended tightening torques of mounting screws in the center mounting holes are 70 to 80% of the values in the Table.

Flange type mounted from top/bottom



MXC12, LRXC12
MX 12, LRX 12
MXG12, LRXC12

MXHC 20, LRXHC 20
MXH 20, LRXH 20
MXHG20, LRXHG 20
Models mounted from bottom only (1)

[illegible]

Note⁽¹⁾ : Track rail lengths are shown in Table 2.1 on page II-153 and Table 2.3 on page II-154.

(2) : The can be mounted from top side only.

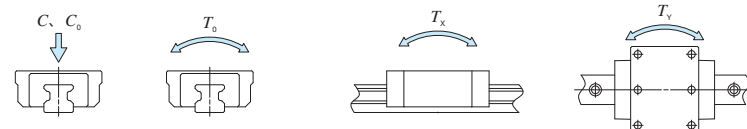
For mounting from bottom side, MXHC20, MXH20, MXHG20, MXHL20, LRXHC20, LRXH20 and LRXHG20 can be used.

(3) : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent. In assembled set of MX series, track rail mounting bolt is not appended.

(4) : The directions 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 in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remark 1 : For grease nipple specifications, see Table 15 on page II-166.

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



Example of identification number of assembled set

Model code		Size	Part code		Preload symbol	Class symbol	Interchangeable code	Supplemental code
<u>MX</u>	<u>G</u>	<u>15</u>	<u>C2</u>	<u>R360</u>	<u>T₁</u>	<u>P</u>	<u>S1</u>	<u>/F</u>
1	2	3	4	5	6	7	8	9

① Series	
MX	Flange type mounted from top/bottom
LRX	

② Length of slide unit	
C	Short
No symbol	Standard
G	High rigidity long
L	Extra high rigidity long

③ Size	12, 15, 20
--------	------------

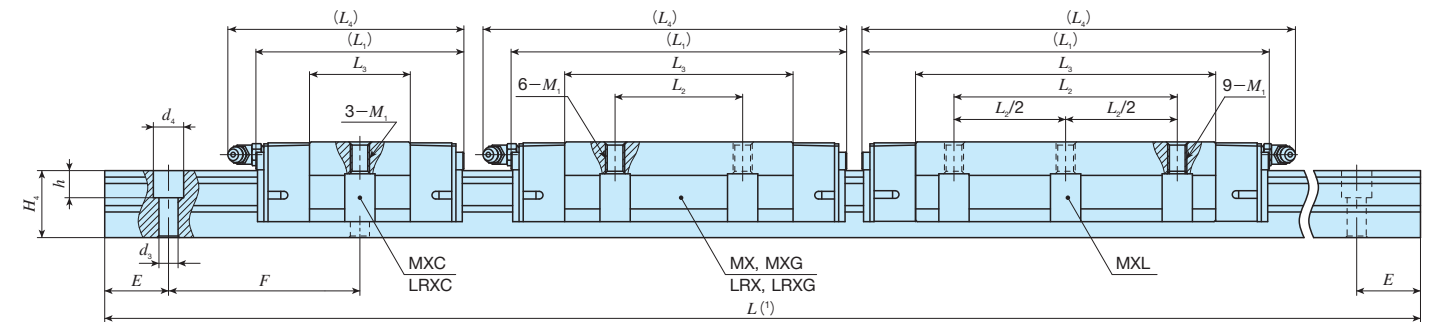
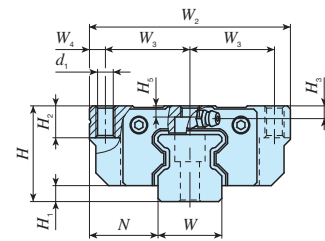
④ Number of slide unit (two units)

⑤ Length of track rail (360mm)

⑥ Preload amount		⑧ Interchangeable code	
No symbol	Standard	S1	Interchangeable specification
T ₁	Light preload	S2	Interchangeable specification
T ₂	Medium preload	No symbol	Non interchangeable specification
T ₃	Heavy preload		

⑦ Accuracy class		⑨ Special specification
H	High	A, D, E, F, GE, HP, I, J, L, LF
P	Precision	MA, MN, N, Q, RC, T, UR, V
SP	Super precision	W, Y, Z
UP	Ultra precision	

Flange type mounted from top/bottom



Note⁽¹⁾ : Track rail lengths are shown in Table 2.1 on page II-153 and Table 2.3 on page II-154.

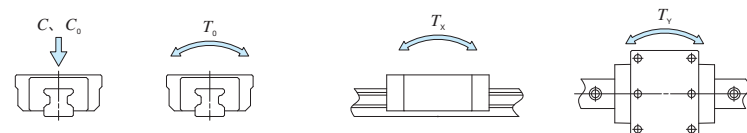
(2) : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent. In assembled set of MX series, track rail mounting bolt is not appended.

(3) : The directions 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 in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remark 1 : For grease nipple specifications, see Table 15 on page II-166.

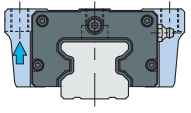
2 : A grease nipple mounting thread hole is provided on the left and right end plates respectively.

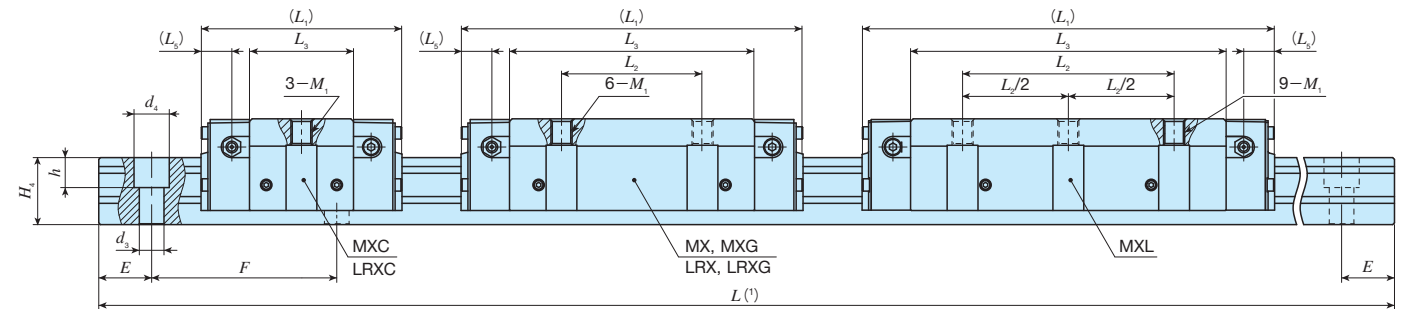
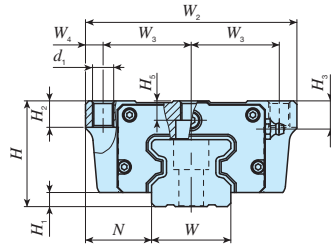
① Series		③ Size		⑥ Preload amount		⑧ Interchangeable code		
MX	Flange type mounted on top/bottom	25, 30		No symbol	Standard	S1	Interchangeable specification	
LRX				T1	Light preload	S2	Interchangeable specification	
		④ Number of slide unit (two units)		T2	Medium preload	No symbol	Non interchangeable specification	
				T3	Heavy preload			
② Length of slide unit		⑤ Length of track rail (840mm)		⑦ Accuracy class		⑨ Special specification		
C	Short			H	High	A, D, E, F, GE, HP, I, J, L, LF		
No symbol	Standard			P	Precision	MA, MN, N, Q, RC, T, UR, V		
G	High rigidity long			SP	Super precision	W, Y, Z		
L	Extra high rigidity long			UP	Ultra precision			



IKO C-Lube Linear Roller Way Super MX

Flange type mounted from top/bottom

Shape	MX • LRX					
						
Size	12	15	20	25	30	
	35	45	55	65	85	100



Model 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	LRX (Non 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×length	C N	C ₀ N	T ₀ N·m	T _x N·m	T _y N·m
MXC 35	LRXC 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
MX 35	LRX 35	○	1.76								124	62	78.6	12.7															58 700	100 000	2 170	1 360 8 470	1 360 8 470
MXG 35	LRXG 35	○	2.41								152		106.6	12.7																			
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								114	—	59	17.5																			
MX 45	LRX 45	○	3.26	154	80	99	95 400	159 000	4 430	2 700 16 800	2 700 16 800																						
MXG 45	LRXG 45	○	4.60	194		139						124 000	223 000		6 200	5 220 29 000	5 220 29 000																
MXL 45	—	—	5.66	234	120	179	151 000	287 000	7 980	8 560 44 400	8 560 44 400																						

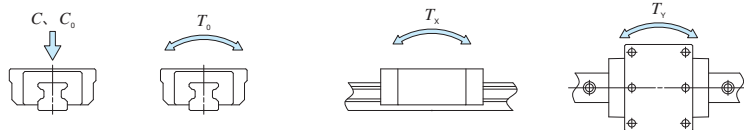
Note⁽¹⁾ : Track rail lengths are shown in Table 2.1 on page II-153 and Table 2.3 on page II-154.

(2) The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent. In assembled set of MX series, track rail mounting bolt is not appended.

(3) The directions of basic dynamic load rating (C), basic static load rating (C₀) and static moment rating (T₀, T_x, T_y) are shown in the sketches below. The upper values in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remark 1 : For grease nipple specifications, see Table 15 on page II-166.

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



Example of identification number of assembled set

Model code		Size	Part code		Preload symbol	Class 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>S1</u>	<u>/F</u>
1	2	3	4	5	6	7	8	9

① Series	
MX	Flange type mounted from top/bottom

② Length of slide unit	
C	Short
No symbol	Standard
G	High rigidity long
L	Extra high rigidity long

③ Size	35, 45
--------	--------

④ Number of slide unit (two units)	
------------------------------------	--

⑤ Length of track rail (120mm)	
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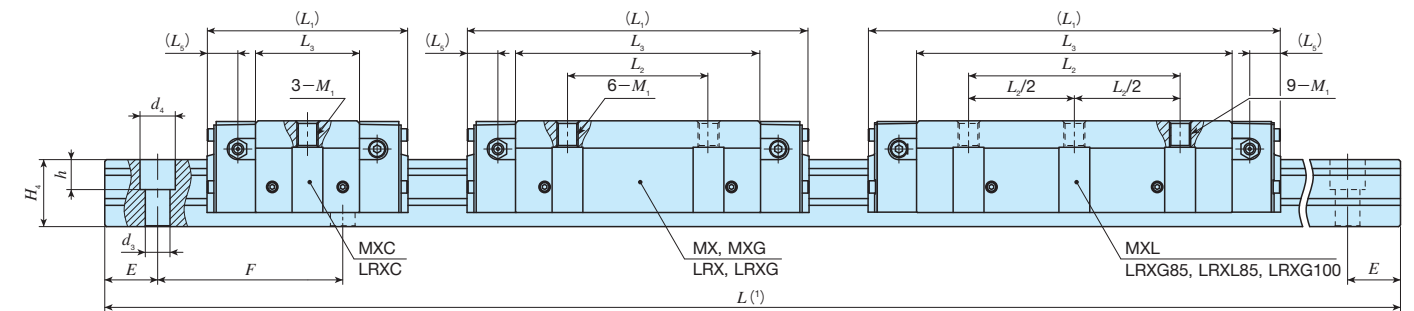
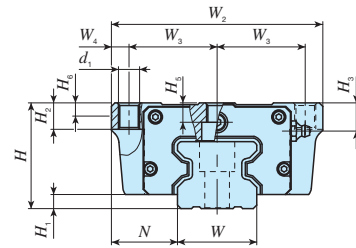
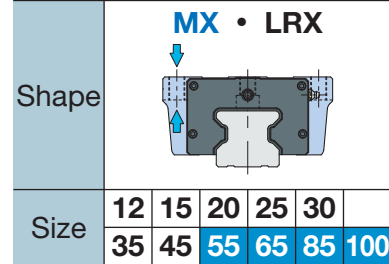
⑥ Preload amount	
No symbol	Standard
T1	Light preload
T2	Medium preload
T3	Heavy preload

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

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

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

Flange type mounted from top/bottom



Model 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	LRX (Non 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×length	C N	C ₀ N
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																	5 040 31 100	5 040 31 100			
MXG 55	LRXG 55	○	7.93								238	174	10 400 57 000																	10 400 57 000				
MXL 55	—	—	10.1								292	150	228																	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 32 200	4 200 32 200
		○									181		26.6																					
MX 65	LRX 65	○	11.5								244	110	159	26.3																				
		○									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															419 000	768 000	30 200	37 600 193 000	37 600 193 000	
—	LRX 85	—	25.4	36.7	110	16	65	215	92.5	15	323	140	232	27.5	17.8	M20		35	22	25.5	20	85	67	26.5	39	30	90	180	M24×70	440 000	753 000	38 900	29 500 163 000	29 500 163 000
—	LRXG 85	—	32.7								395	200	304																	50 000 257 000	50 000 257 000			
—	LRXL 85	—	44.0								494	280	403																	87 000 422 000	87 000 422 000			
—	LRXG 100	—	43.0	43.2	120	15	75	250	110	15	362	200	262	29.7	17.8	M20		35	30	30.5	—	100	70	33	48	36	75	150	M30×80	498 000	821 000	49 700	35 800 199 000	35 800 199 000

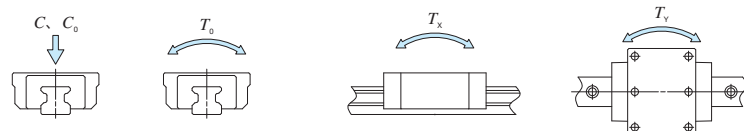
Note(1) : Track rail lengths are shown in Table 2.1 on page II-153 and Table 2.3 on page II-154.

(2) : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent. In assembled set of MX series, track rail mounting bolt is not appended.

(3) : The directions 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 in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remark 1 : For grease nipple specifications, see Table 15 on page II-166.

2 : Three female threaded holes for grease nipple are prepared on each end plate.



Example of identification number of assembled set

Model code		Size	Part code		Preload symbol	Class 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>S1</u>	<u>/F</u>
1	2	3	4	5	6	7	8	9

① Series	
MX	Flange type mounted from top/bottom
IRX	

③ Size
35, 45, 55, 65, 85, 100

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

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

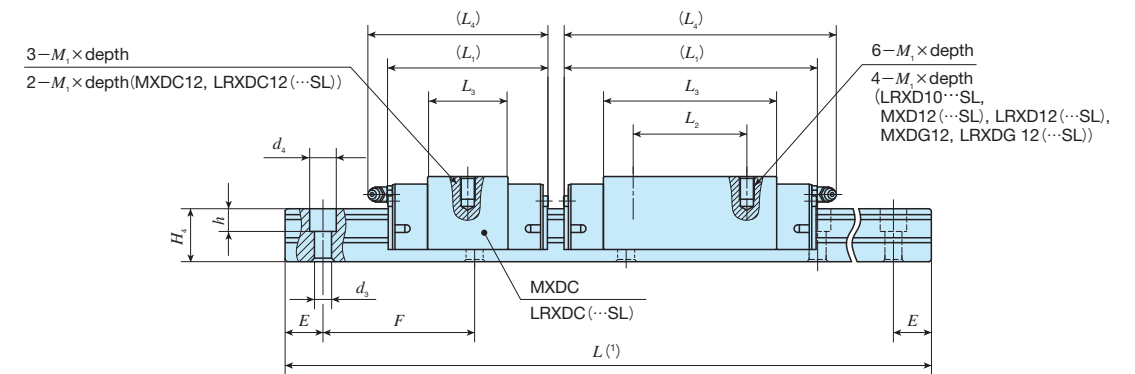
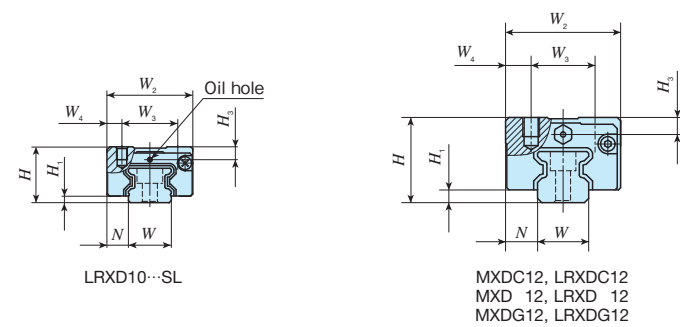
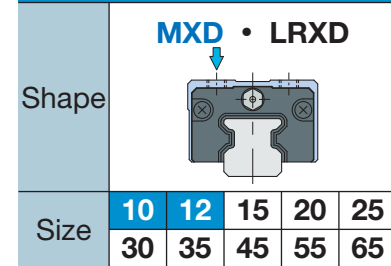
② Length of slide unit	
C	Short
No symbol	Standard
G	High rigidity long
L	Extra high rigidity long

⑤ Length of track rail (3000mm)

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, PS, Q, RC, T, UR, V
W, Y, Z

Block type mounted from bottom



Model 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	LRX (Non 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×length	C N	C ₀ N	T ₀ N·m	T _x N·m	T _y N·m	
—	LRXD 10…SL	—	0.028	0.48	13	1.5	5	20	13	3.5	34.5	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	20.9 140	20.9 140	
MXDC 12	LRXDC 12	○	0.045	0.92	20	3	7.5	27	15	6	40	—	15.8	44	M4 ×4.5		4	12	12	3.5	6	4.5	20	40	M3×12	4 250	6 500	49.4	18.6 209	18.6 209	
—	LRXDC 12…SL	○									37		14.8	40												3 900	6 090	46.3	16.3 170	16.3 170	
MXD 12		○									50	25.4	53	6 120												10 400	79.1	45.8 382	45.8 382		
	LRXD 12	○	47								25.3	50	5 890	78.7													45.2 343	45.2 343			
MXD 12…SL		○	50								25.4	53	6 120	79.1													45.8 382	45.8 382			
	LRXD 12…SL	○	47								25.3	50	5 890	78.7													45.2 343	45.2 343			
MXDG 12		○	61								36.6	64	8 120	15 000													114	92.7 654	92.7 654		
	LRXDG 12	○	0.097																										58	35.8	61
—	LRXDG 12…SL	○		7 710	14 600	111	88.6 581	88.6 581																							

Note(1) : Track rail lengths are shown in Table 2.1, Table 2.2 on page II-153 and Table 2.3, Table 2.4 on page II-154.

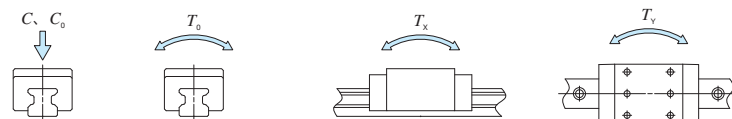
(2) : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent. In stainless steel model, stainless steel made bolts are appended. In assembled set of MX series, track rail mounting bolt is not appended.

(3) : The directions 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 in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remark 1 : Size 10 is provided with oil holes. For specification, see Fig. 2 on page II-166.

2 : For grease nipple specifications, see Table 15 on page II-166.

3 : In size 12, mounting thread hole for grease nipple is provided on the left and right end plates respectively.

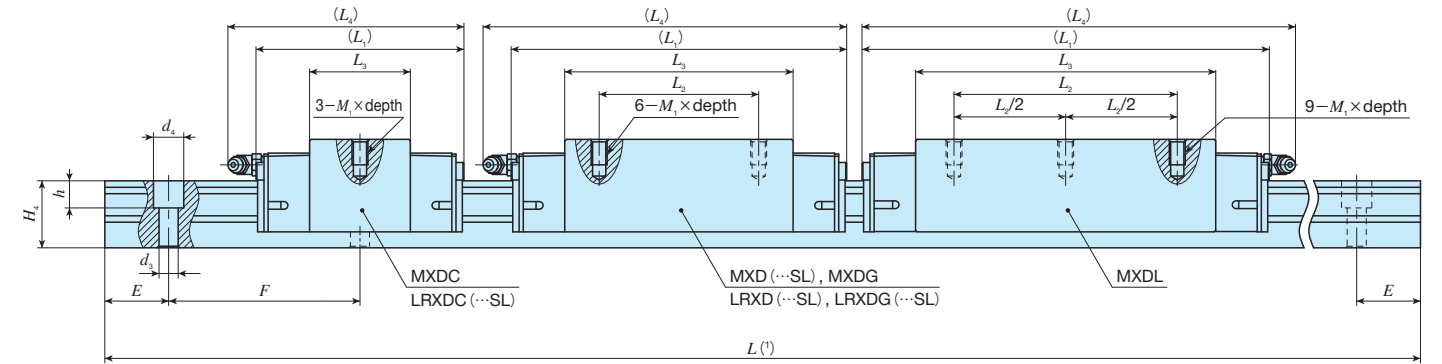
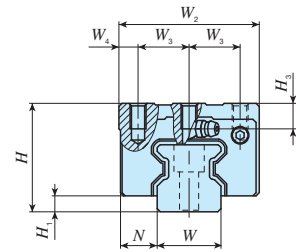
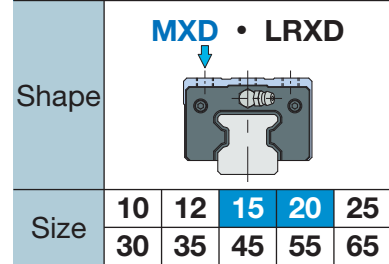


Example of identification number of assembled set

Model code		Size	Part code		Material symbol	Preload symbol	Class symbol	Interchangeable code	Supplemental code
<u>MXD</u>	<u>G</u>	<u>12</u>	<u>C2</u>	<u>R560</u>	<u> </u>	<u>T₁</u>	<u>P</u>	<u>S1</u>	<u>/F</u>
1	2	3	4	5	6	7	8	9	10

① Series MXD LRXD	Block type mounted from bottom	④ Number of slide unit (two units)	⑦ Preload amount No symbol Standard T ₁ Light preload T ₂ Medium preload T ₃ Heavy preload	⑨ Interchangeable code S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification
② Length of slide unit C Short No symbol Standard G High rigidity long		⑤ Length of track rail (560mm)	⑧ Accuracy class H High P Precision SP Super precision UP Ultra precision	⑩ 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 symbol No symbol Carbon steel SL Stainless steel		

Block type mounted from bottom



Model 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	LRX (Non 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×length	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	○									68	26	40	71												14 900	28 000	263	1 262 1 590	1 260 1 590																							
MXD 15	LRXD 15	○																													0.19																						
MXD 15…SL	LRXD 15…SL	○																																																			
MXDG 15	LRXDG 15	○	0.26								2.73	34	5	12																	44	16	6	86	36	51.6	94	M5×8		8	20	21	6	9.5	8.5	30	60	M5×20	23 400	42 700	550	379 2 520	379 2 520
—	LRXDG 15…SL	○																																															0.52				
MXDC 20	LRXDC 20	○	0.25	106	50	71.6	114	30 100	58 900	760					4 713 4 200	4 200 6 560																																					
—	LRXDC 20…SL	○															0.38																																				
MXD 20	LRXD 20	○																0.67																																			
MXD 20…SL	LRXD 20…SL	○	128														70		94.1	137	37 200	77 200	996	1 210 6 560	1 210 6 560																												
MXDG 20	LRXDG 20	○																																																			
—	LRXDG 20…SL	○																																																			
MXDL 20	—	—																																																			

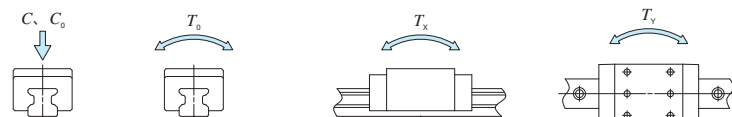
Note⁽¹⁾ : Track rail lengths are shown in Table 2.1, Table 2.2 on page II-153 and Table 2.3, Table 2.4 on page II-154.

(2) : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent. In stainless products, stainless steel made bolts are appended. In assembled set of MX series, track rail mounting bolt is not appended.

(3) : The directions 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 in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remark 1 : For grease nipple specifications, see Table 15 on page II-166.

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



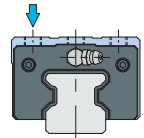
Example of identification number of assembled set

Model code		Size	Part code		Material symbol	Preload symbol	Class 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>S1</u>	<u>/F</u>
1	2	3	4	5	6	7	8	9	10

① Series		③ Size		⑦ Preload amount		⑨ Interchangeable code	
MXD	Block type mounted from bottom	15, 20		No symbol	Standard	S1	Interchangeable specification
LRXD		④ Number of slide unit (two units)		T1	Light preload	S2	Interchangeable specification
② Length of slide unit		⑤ Length of track rail (840mm)		T2	Medium preload	No symbol	Non interchangeable specification
C	Short	⑥ Material symbol		T3	Heavy preload	⑩ Special specification	
No symbol	Standard	No symbol	Carbon steel	H	High	A, D, E, F, HP, I, J, L, LF, MA MN, N, Q, RC, T, UR, V, W, Y Z	
G	High rigidity long	SL	Stainless steel	P	Precision		
L	Extra high rigidity long			SP	Super precision		
				UP	Ultra precision		

Block type mounted from bottom

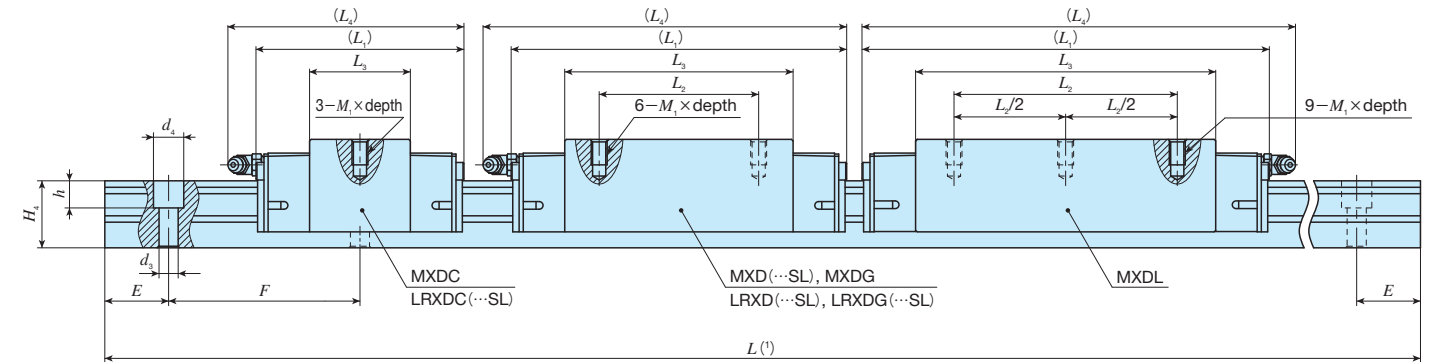
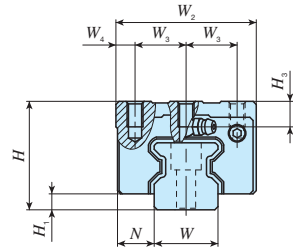
MXD • LRXD



Shape

Size

10	12	15	20	25
30	35	45	55	65



Model 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	LRX (Non 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×length	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	1 810 ²¹³	1 810 ²¹³																																																							
—	LRXDC 25…SL	○									98	35	60	107												32 100	56 300	833	3 800 ⁵⁷³	3 800 ⁵⁷³																																																							
MXD 25	LRXD 25	○									0.55	113	50	75												122	38 200	70 300	1 040	5 380 ⁸⁸⁵	5 380 ⁸⁸⁵																																																						
MXD 25…SL	LRXD 25…SL	○	0.68									137	70	99												146	47 400	92 800	1 370	1 530 ⁸⁸⁵	1 530 ⁸⁸⁵																																																						
MXDG 25	LRXDG 25	○										0.88	M8×12													9.5	28	28	9	14	12	40	80	M8×28	29 200	44 600	808	1 350	1 470 ⁸⁸³	1 470 ⁸⁸³																																													
—	LRXDG 25…SL	○									0.60																														5.01	45	6.5	16	60	20	10	85	—	42.4	95	43 400	74 400	1 350	5 780 ⁸⁸³	5 780 ⁸⁸³																													
MXDL 25	—	—	0.92	5.01	45	6.5	16	60	20	10					113	40	70.4	123	53 200	96 700	1 750	1 470 ⁸⁸³	1 470 ⁸⁸³																																																														
MXDC 30	LRXDC 30	○										1.18												5.01	45																																6.5	16	60	20	10	134	60	91.4	144	65 600	126 000	2 290	2 500 ^{13 600}	2 500 ^{13 600}															
—	LRXDC 30…SL	○									1.52																																																												5.01	45	6.5	16	60	20	10	162	80	119.4	172	65 600	126 000	2 290	2 500 ^{13 600}
MXD 30	LRXD 30	○	1.18																																																																																		
MXD 30…SL	LRXD 30…SL	○										1.18	5.01	45												6.5	16	60	20	10	134	60	91.4	144	65 600	126 000	2 290	2 500 ^{13 600}	2 500 ^{13 600}																																														
MXDG 30	LRXDG 30	○									1.18																													5.01	45	6.5	16	60	20	10	134	60	91.4	144	65 600	126 000	2 290	2 500 ^{13 600}	2 500 ^{13 600}																														
—	LRXDG 30…SL	○	1.18	5.01	45	6.5	16	60	20	10					134	60	91.4	144	65 600	126 000	2 290	2 500 ^{13 600}	2 500 ^{13 600}																																																														
MXDL 30	—	—										1.18												5.01	45																															6.5	16	60	20	10	134	60	91.4	144	65 600	126 000	2 290	2 500 ^{13 600}	2 500 ^{13 600}																

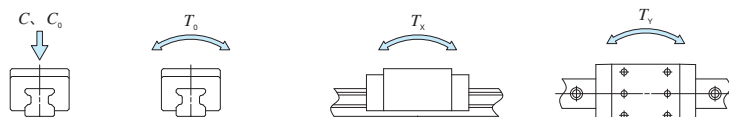
Note⁽¹⁾ : Track rail lengths are shown in Table 2.1, Table 2.2 on page II-153 and Table 2.3, Table 2.4 on page II-154.

(2) : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent. In stainless products, stainless steel made bolts are appended. In assembled set of MX series, track rail mounting bolt is not appended.

(3) : The directions 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 in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remark 1 : For grease nipple specifications, see Table 15 on page II-166.

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

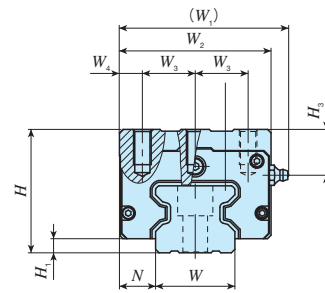


Example of identification number of assembled set

Model code		Size	Part code		Material symbol	Preload symbol	Class 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>S1</u>	<u>/F</u>
1	2	3	4	5	6	7	8	9	10

① Series			③ Size			⑦ Preload amount			⑨ Interchangeable code				
MXD	Block type mounted from bottom			25, 30		No symbol	Standard		S1	Interchangeable specification			
LRXD				④ Number of slide unit (two units)		T1	Light preload		S2	Interchangeable specification			
② Length of slide unit			⑤ Length of track rail (840mm)			T2	Medium preload	No symbol	Non interchangeable specification				
C	Short		⑥ Material symbol			T3	Heavy preload						
No symbol	Standard		No symbol	Carbon steel		⑧ Accuracy class		⑩ Special specification					
G	High rigidity long		Sl	Stainless steel		H	High	A, D, E, F, HP, I, J, L, LF, MA MN, N, Q, RC, T, UR, V, W, Y Z					
L	Extra high rigidity long					P	Precision						
						SP	Super precision						
						UP	Ultra precision						

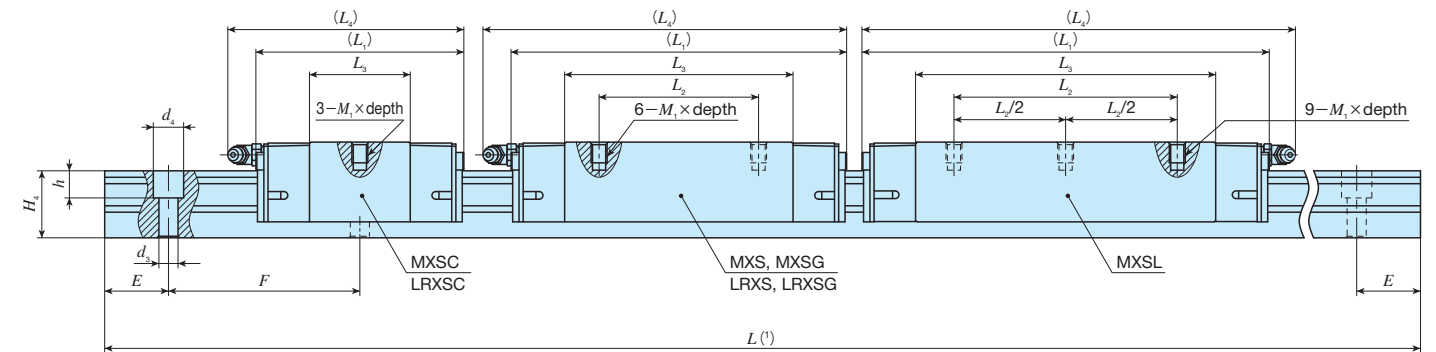
Shape					
	10	12	15	20	25
Size	30	35	45	55	65





Compact block type, mounting from bottom

Technical drawing of a mechanical part with dimensions W_1 , W_2 , W_3 , W_4 , H , H_1 , N , and W .

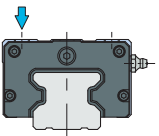


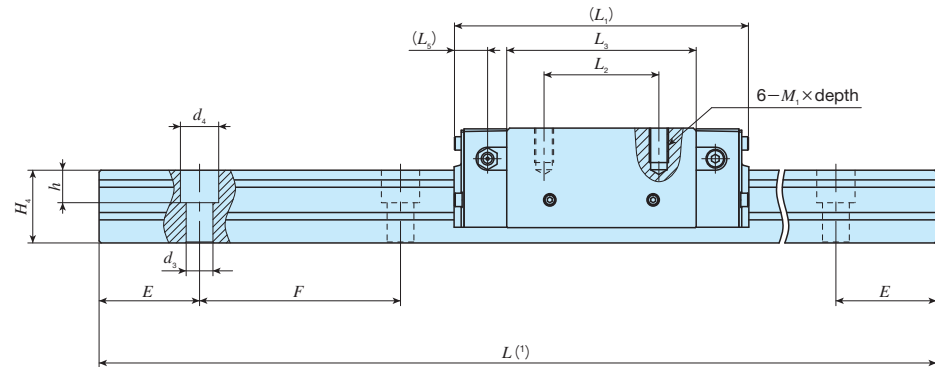
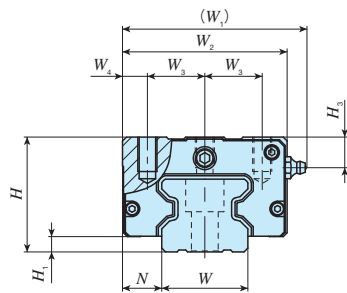
2 : A grease nipple mounting thread hole is provided on the left and right end plates respectively.

Example of identification number of assembled set

IKO C-Lube Linear Roller Way Super MX

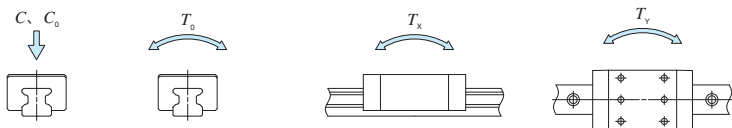
Compact block type, mounting from bottom

Shape	MXS 			
Size	15	20	25	30
	35	45	55	



Model 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	LRX (Non 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×length				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													74 200	135 000	2 930	2 440 13 800	2 440 13 800	
MXS 45	—	○	2.37	10.8	60	8	20.5	97	86	30	13	154	60	99	17.5	M10×18		16	45	38	14	20	17	52.5	105	M12×40	95 400	159 000	4 430	2 700 16 800	2 700 16 800	
MXSG 45	—	○	3.27									194	80	139													124 000	223 000	6 200	5 220 29 000	5 220 29 000	
MXS 55	—	○	3.96	14.1	70	9	23.5	111	100	37.5	12.5	184	75	120	20	M12×20		16	53	43	16	23	20	60	120	M14×45	148 000	248 000	8 040	5 040 31 100	5 040 31 100	
MXSG 55	—	○	5.63									238	95	174													198 000	359 000	11 700	10 400 57 000	10 400 57 000	

Note⁽¹⁾ : Track rail lengths are shown in Table 2.1 on page II-153 and Table 2.3 on page II-154.
⁽²⁾ : Track rail mounting bolts are not appended.
⁽³⁾ : The directions of basic dynamic load rating (C), basic static load rating (C₀) and static moment rating (T₀, T_x, T_y) are shown in the sketches below. The upper values in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.
Remark 1 : For grease nipple specifications, see Table 15 on page II-166.
2 : A grease nipple mounting thread hole is provided on the left and right end plates respectively.



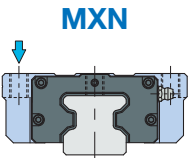
Example of identification number of assembled set

Model code		Size	Part code		Preload symbol	Class 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>S1</u>	<u>/F</u>
1	2	3	4	5	6	7	8	9

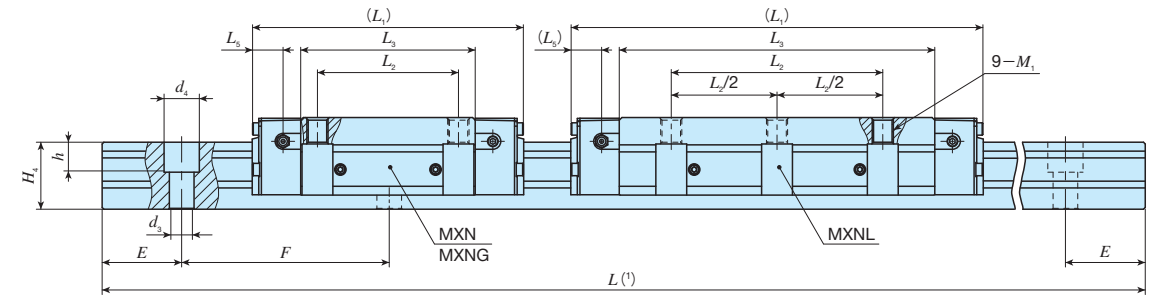
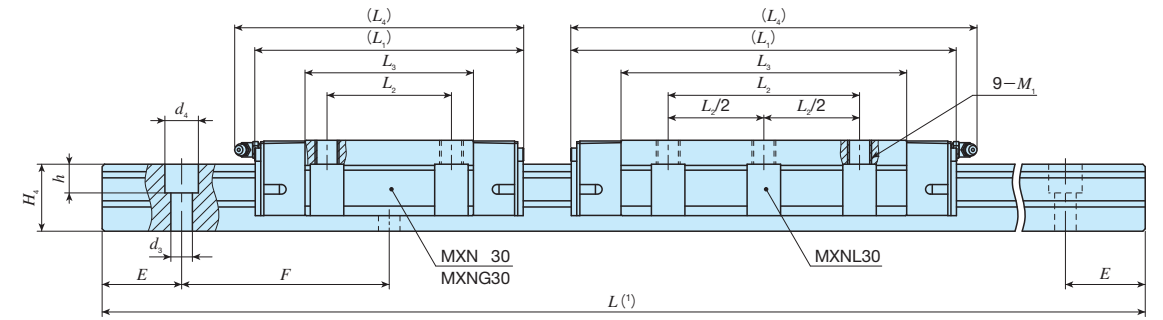
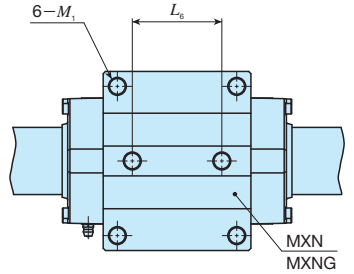
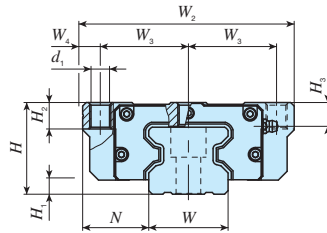
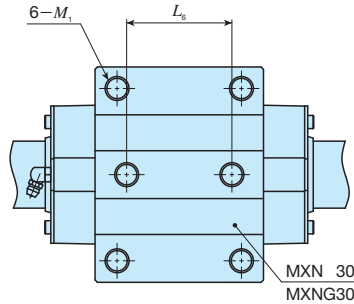
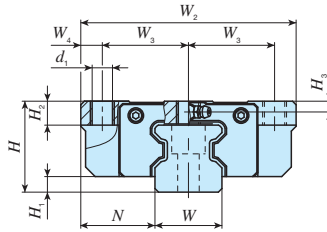
① Series		③ Size		⑥ Preload amount		⑧ Interchangeable code	
MXS	Compact block type, mounting from bottom	35, 45, 55		No symbol	Standard	S1	Interchangeable specification
② Length of slide unit		④ Number of slide unit (two units)		T1	Light preload	S2	Interchangeable specification
No symbol	Standard	⑤ Length of track rail (1470mm)		T2	Medium preload	No symbol	Non interchangeable specification
G	High rigidity long			T3	Heavy preload	⑨ Special specification	
				⑦ Accuracy class		A, D, E, F, HP, I, J, L, LF, MA, N, RC, T, UR, V, W, Z	
				H	High		
				P	Precision		
				SP	Super precision		
				UP	Ultra precision		

IKO C-Lube Linear Roller Way Super MX

Flange type mounting from top

Shape				
Size	30	35	45	55

MXN 30
MXNG 30
MXNL 30



Model 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	LRX (Non C-Lube)		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	d ₁	M ₁		Maximum screwing depth ⁽²⁾	H ₂	H ₃	W	H ₄	d ₃	d ₄	h	E	F	Bolt size×length	C N	C ₀ N	T ₀ N·m	T _x N·m	T _y N·m
MXN 30	—	○	1.05	5.01	38	6.5	31	90	36	9	113	52	70.4	121	—	44	8.5	M10		9	10	4.5	28	28	9	14	12	40	80	M 8×28	43 400	74 400	1 350	883 5 780	883 5 780
MXNG 30	—	○	1.38								134		91.4	142																	53 200	96 700	1 750	1 470 8 740	1 470 8 740
MXNL 30	—	—	1.75								162		80	119.4																	170	65 600	126 000	2 290	2 500 13 600
MXN 35	—	○	1.55	6.88	44	6.5	33	100	41	9	124	62	78.6	—	12.7	52	8.5	M10		11	13	11	34	32	9	14	12	40	80	M 8×35	58 700	100 000	2 170	1 360 8 470	1 360 8 470
MXNG 35	—	○	2.13								152		106.6																		74 200	135 000	2 930	2 440 13 800	2 440 13 800
MXNL 35	—	—	2.71								184		100																						
MXN 45	—	○	2.58	10.8	52	8	37.5	120	50	10	154	80	99	—	17.5	60	10.5	M12		13	15	13.5	45	38	14	20	17	52.5	105	M12×40	95 400	159 000	4 430	2 700 16 800	2 700 16 800
MXNG 45	—	○	3.73								194		139																		124 000	223 000	6 200	5 220 29 000	5 220 29 000
MXNL 45	—	—	4.72								234		120																						
MXN 55	—	○	4.61	14.1	63	9	43.5	140	58	12	184	95	120	—	20	70	12.5	M14		19	17	16	53	43	16	23	20	60	120	M14×45	148 000	248 000	8 040	5 040 31 100	5 040 31 100
MXNG 55	—	○	6.94								238		174																		198 000	359 000	11 700	10 400 57 000	10 400 57 000
MXNL 55	—	—	8.87								292		150																						

Note⁽¹⁾ : Track rail lengths are shown in Table 2.1 on page II-153 and Table 2.3 on page II-154.

⁽²⁾ : It is recommended to secure actual screwing depth should not exceed the maximum screwing depth in the table.

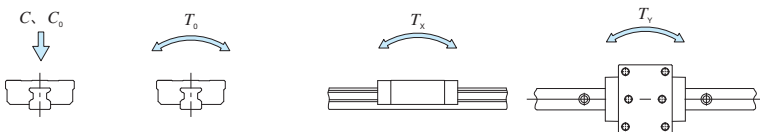
⁽³⁾ : Track rail mounting bolts are not appended.

⁽⁴⁾ : The directions of basic dynamic load rating (C), basic static load rating (C₀) and static moment rating (T₀, T_x, T_y) are shown in the sketches below. The upper values in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remark 1 : For grease nipple specifications, see Table 15 on page II-166.

2 : In size 30, a grease nipple mounting thread hole is provided on the left and right end plates respectively.

3 : In size 35, 45 and 55 three female threaded holes for grease nipple are prepared on each end plate. In size 35 female threads for grease nipple are prepared on both side faces and front face of end plate. Thread size of front face is smaller than other threads thus, please consult IKO if grease nipple for front face is required.



Example of identification number of assembled set

Model code	Size	Part code	Preload symbol	Class symbol	Interchangeable code	Supplemental code
MXN	G	55	C2	R3000	T ₂	P
1	2	3	4	5	6	7
						8
						9

① Series	MXN	Flange type mounting from top
② Length of slide unit	No symbol	Standard
	G	High rigidity long
	L	Extra high rigidity long

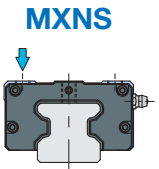
③ Size	30, 35, 45, 55
④ Number of slide unit (two units)	
⑤ Length of track rail (3000mm)	

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

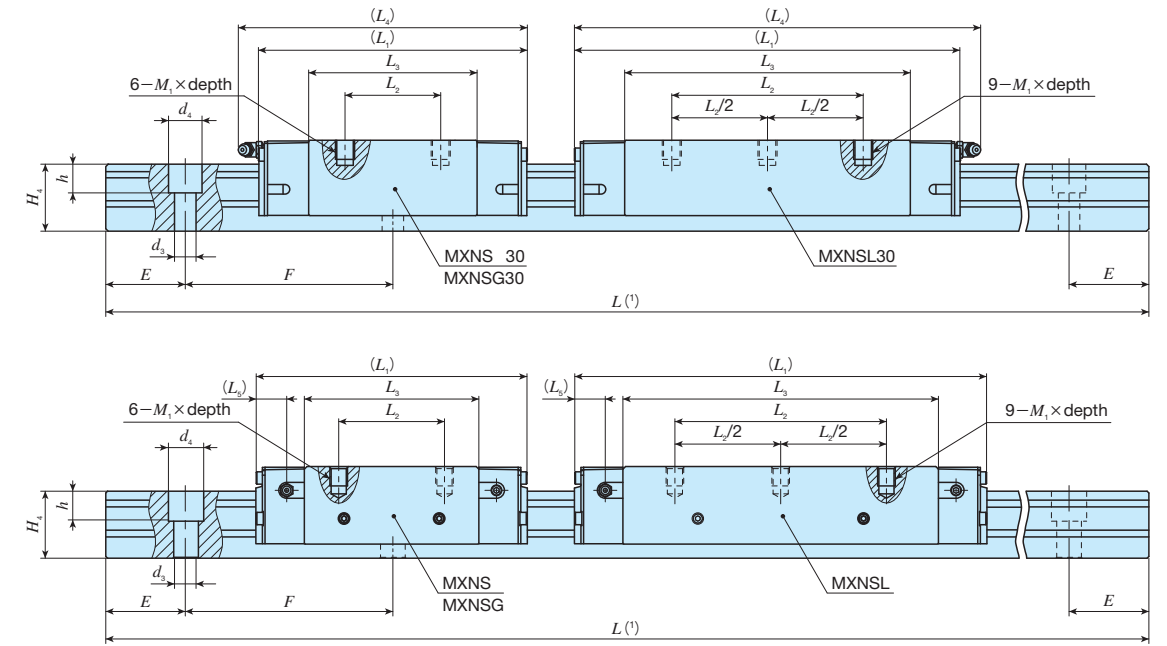
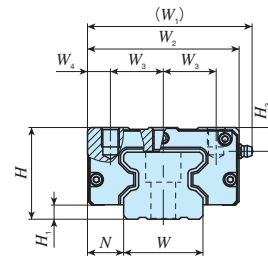
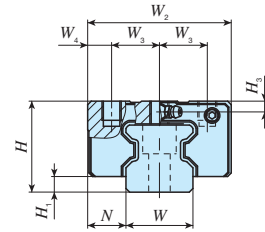
⑦ Accuracy class	H	High
	P	Precision
	SP	Super precision
	UP	Ultra precision
⑧ Interchangeable code	S1	Interchangeable specification
	S2	Interchangeable specification
	No symbol	Non interchangeable specification
⑨ Special specification	A, D, E, F, HP, I, J, L, LF, MA	
	RC, T, UR, V, W, Z	

IKO C-Lube Linear Roller Way Super MX

Block type mounting from top

Shape				
Size	30	35	45	55

MXNS 30
MXNSG 30
MXNSL 30



Model 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	LRX (Non 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 screwing depth ⁽²⁾	H ₃	W	H ₄	d ₃	d ₄	h	E	F	Bolt size×length	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															74 200	135 000	2 930	2 440 13 800	2 440 13 800
MXNSL 35	—	—	1.81									184	100	138.6															90 800	175 000	3 800	4 060 21 300	4 060 21 300
MXNS 45	—	○	1.84	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															124 000	223 000	6 200	5 220 29 000	5 220 29 000
MXNSL 45	—	—	3.29									234	120	179															151 000	287 000	7 980	8 560 44 400	8 560 44 400
MXNS 55	—	○	3.31	14.1	63	9	23.5	111	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															198 000	359 000	11 700	10 400 57 000	10 400 57 000
MXNSL 55	—	—	6.28									292	150	228															244 000	470 000	15 300	17 700 90 700	17 700 90 700

Note⁽¹⁾ : Track rail lengths are shown in Table 2.1 on page II-153 and Table 2.3 on page II-154.

⁽²⁾ : Insertion screw depth of slide unit mounting holes are shown in Table 16.2 on page II-168. It is recommended to secure actual screwing depth should not exceed the maximum screwing depth in the table.

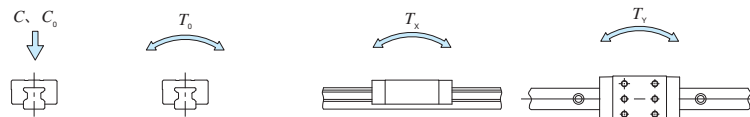
⁽³⁾ : Track rail mounting bolts are not appended.

⁽⁴⁾ : The directions of basic dynamic load rating (C), basic static load rating (C₀) and static moment rating (T₀, T_x, T_y) are shown in the sketches below. The upper values in the T_x and T_y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remark 1 : For grease nipple specifications, see Table 15 on page II-166.

2 : In size 30, a grease nipple mounting thread hole is provided on the left and right end plates respectively.

3 : In size 35, 45 and 55 three female threaded holes for grease nipple are prepared on each end plate. In size 35 female threads for grease nipple are prepared on both side faces and front face of end plate. Thread size of front face is smaller than other threads thus, please consult IKO if grease nipple for front face is required.



Example of identification number of assembled set

Model code	Size	Part code	Preload symbol	Class symbol	Interchangeable code	Supplemental code
MXNS G	55	C2 R3000	T ₂	P	S1	/F
①	②	③	④	⑤	⑥	⑦

① Series	② Length of slide unit
MXNS Block type mounting from top	No symbol Standard G High rigidity long L Extra high rigidity long

③ Size	④ Number of slide unit (two units)	⑤ Length of track rail (3000mm)
30, 35, 45, 55		

⑥ Preload amount	⑦ Accuracy class
No symbol Standard T ₁ Light preload T ₂ Medium preload T ₃ Heavy preload	H High P Precision SP Super precision UP Ultra precision

⑧ Interchangeable code	⑨ Special specification
S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification	A, D, E, F, HP, I, J, L, LF, MA RC, T, UR, V, W, Z