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ISO 9001 Certified
ISO 14001 Certified

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ALL NEW
2014
NEW PRODUCTS GUIDE

NIPPON THOMPSON CO., LTD.

ALL NEW 2014 IKO New products introduction

IKO C-Lube Maintenance Free Series

CAT-1559 CAT-2910.1

C-Lube Linear Way MLV MLV (Size 7)

P5-8

A linear motion rolling guide with excellent cost performance, created by simple mechanism of four-point contact in two-row raceways and unique small sizing technology.

- Series minimum size, track rail width 7mm is released!
- Built-in "C-Lube" for long term maintenance free!
- Stainless steel selections for excellent corrosion resistance!
- Ball retained type for easy operation!

IKO C-Lube Maintenance Free Series

CAT-1559

C-Lube Linear Way ML ML/MLC (Size 3)

P9-12

A linear motion rolling guide with extra small size, created by simple mechanism of four-point contact in two-row raceways and unique small sizing technology.

- Series minimum size, track rail width 3mm is released!
- Built-in "C-Lube" for long term maintenance free!
- Stainless steel selections for excellent corrosion resistance!

IKO C-Lube Maintenance Free Series

CAT-1559 CAT-2911

2013 Fall New Product

C-Lube Linear Way MV MV (Size 20, 25, 30)

P13-16

A linear motion rolling guide with high load capacity despite its extra low profile and extra light weight, achieved only because of the simple mechanism of four-point contact in two-row raceways.

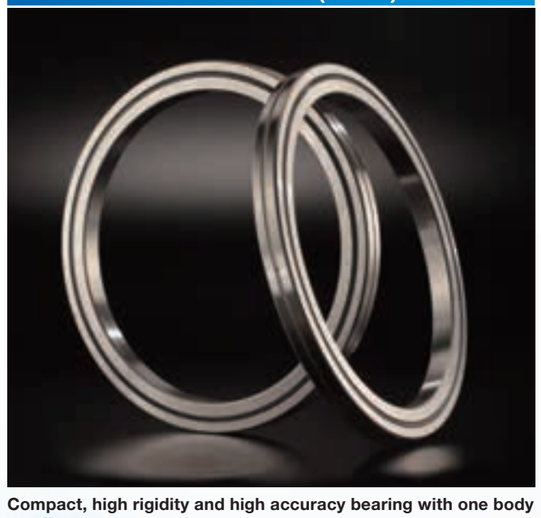
- The sectional height is now lowered to about 76% of ME series and about 69% of MH series!
- The weight is now decreased to about 65% of slide unit and about 70% of track rail!
- Downward load rating is the maximum among the ball type models allowing high load capacity!
- Built-in "C-Lube" for long term maintenance free!

CAT-1558.1

High Rigidity Type Crossed Roller Bearing

CRBH30025A (UU)

P17-18



Compact, high rigidity and high accuracy bearing with one body for inner and outer ring.

- Series maximum size, with bore diameter 300mm is released!

CAT-1556.3

Nano Linear NT

Motion network support

P19-20

A linear motor table with extremely low sectional height by moving magnet type.

- In addition to EtherCAT and SSCNET, MECHATROLINK is now supported!

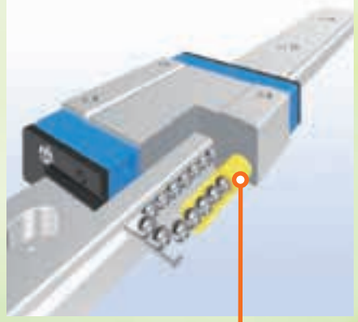
1N=0.102kgf=0.2248lbs.
1mm=0.03937inch

Our pursuit of Oil Minimum has led to the creation of IKO's proprietary family of lubrication parts as "C-Lube".

IKO C-Lube Maintenance-free

"C-Lube" minimizes usage of lubrication oil and supplies the optimal amount of lubrication oil for long period of time. So it realizes long term maintenance free and contributes to the global environment preservation.

C-Lube Linear Way



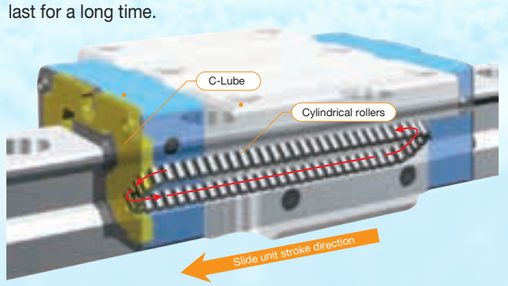
C-Lube Linear Roller Way

C-Lube Linear Ball Spline

C-Lube integrated

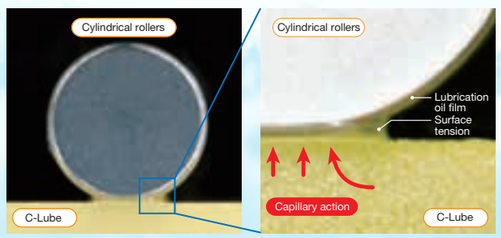
Lubrication oil is carried through circulation of rolling elements

The lubrication oil is supplied directly to the rolling elements, not to the track rail.
When rolling elements make contact with the capillary lubricating element integrated with the circulation path of slide unit rolling elements, the lubrication oil is supplied to surfaces of rolling elements and carried to the loading area through circulation of rolling elements.
This results in adequate lubrication oil being properly maintained in the loading area and lubrication performance will last for a long time.



Lubrication oil is directly supplied to surfaces of the rolling elements

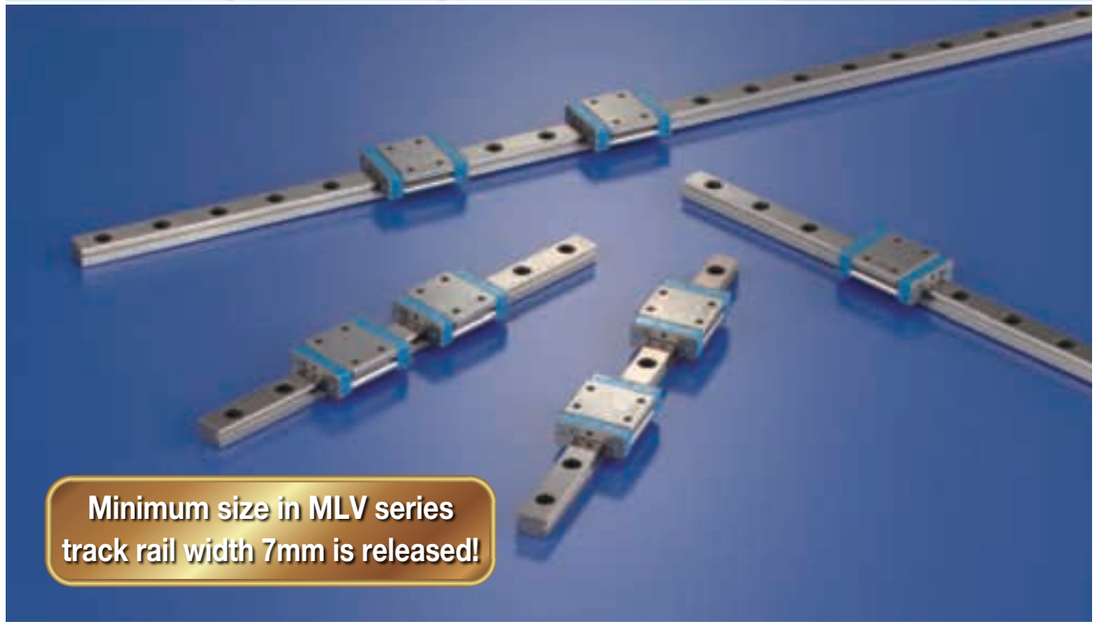
The surface of capillary lubricating element is always covered with the lubrication oil.
Lubrication oil is continuously supplied to the surface of rolling elements by surface tension in the contact of capillary lubricating element surface and rolling elements.
On the surface of capillary lubricating element with which the rolling elements make contact, new lubrication oil is always supplied from the other sections.



IKO C-Lube Maintenance Free Series

C-Lube Linear Way MLV

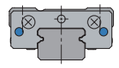
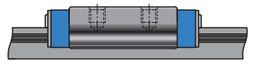
MLV (Size 7)



MLV series is a super small-size linear motion rolling guides produced by original small sizing technology.
The structure with two rows of balls contacting at four points to raceway assures the stable accuracy despite the super small size and light weight.

MLV 7 Structure

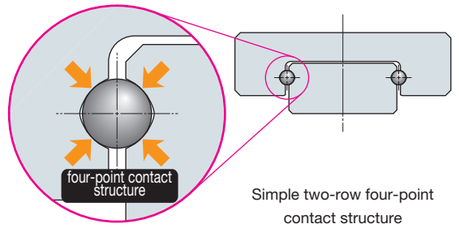
Variation of MLV

Shape	Length of slide unit	Size 7	Size 9	Size 12
	Standard 	New ○	○	○

Features

1 Extremely small size realized by simple structure

Super small-size achieved by simple two-row four-point contact structure and original small sizing technology. Adoption of two-row four-point contact structure allows receiving the load of all directions in good balance, achieving stable and high accuracy despite its super small size.



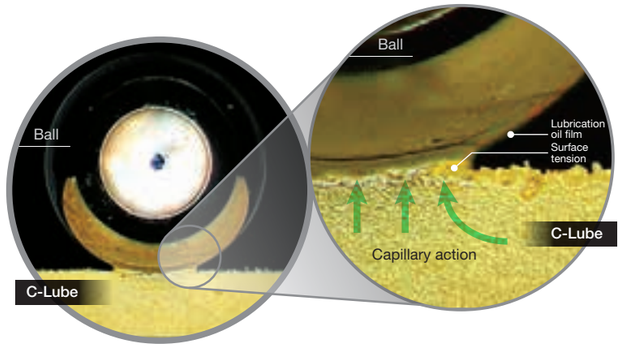
Simple two-row four-point contact structure

2 Cost performance

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

3 Long term maintenance free

Lubrication parts "C-Lube" are built in the slide unit. Lubrication oil is continuously supplied to the surface of rolling elements by surface tension in the contact of C-Lube surface and rolling elements. Furthermore since the lubrication oil of C-Lube is supplied by the amount only necessary to maintain the lubrication performance of rolling guide, the consumption is small, and because the grease is prepacked in the slide unit, long term maintenance free is achieved.



4 Stainless steel selections for excellent corrosion resistance

Stainless steel with high corrosion-resistance is used as the basic specification, so that the products are suitable for applications where rust prevention oil is not preferred, such as in clean room environment.

5 Ball retained type for easy operation

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

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

Example of an Identification Number

MLV ❶ 7 ❷ C2 ❸ R120 ❹ H ❺ /US ❻

❶ Model

MLV

❷ Size

7

❸ Number of slide units (C○)

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

❹ Track rail length (R○)

Indicates the length of track rail in mm.
For standard and maximum lengths, see Table 1.

❺ Accuracy class

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

❻ Special specification

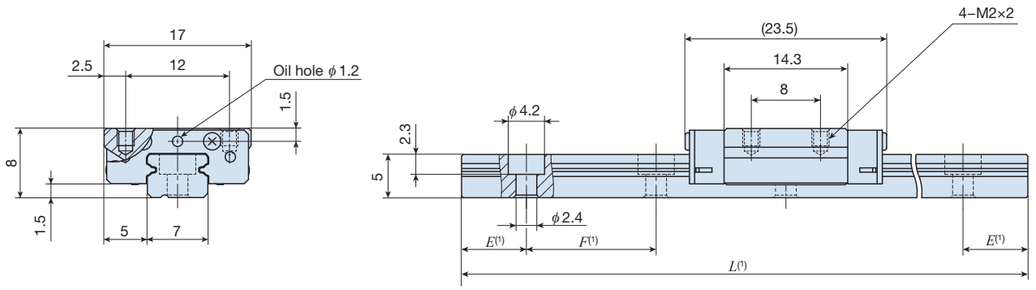
/D	Opposite reference surfaces arrangement
/E	Specified rail mounting hole positions
/MN	Without track rail mounting bolt
/US	End seal
/W○	A group of multiple assembled sets
/YCG	Specified grease (IKO Low Dust-Generation Grease for Clean Environment CG2)

Remark: For the details of special specification, see Linear Motion Rolling Guide Series General Catalog CAT-1559E.

Preload amount

Subtle clearance or minimal amount of preload condition has been in place for adjustment.

Dimension



Identification number	Mass (Ref.) Slide unit g	Mass (Ref.) Track rail (Per 100mm) g	Track rail (2) appended mounting bolt mm	Basic dynamic load rating (3) C N	Basic static load rating (3) C_0 N	Static moment rating (3) T_0 N·m	T_X N·m	T_Y N·m
MLV 7	8.4	22	M2×6	1 330	1 890	6.9	4.7 28.2	3.9 23.6

Note (1) The dimensions of track rail are described in Table 1.
(2) Hexagon socket head stainless steel bolts equivalent to JIS B 1176.
(3) Basic dynamic load rating (C), basic static load rating (C_0), static moment rating (T_0, T_X, T_Y) are as shown in right figure.
The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units sticking.

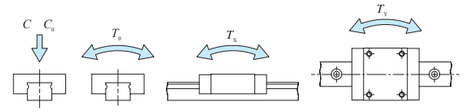


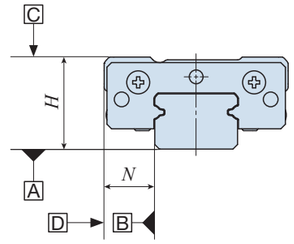
Table 1 Standard and maximum lengths of track rail

Unit: mm

Item \ Identification number		MLV 7
Standard length L (1)		60(4) 90(6) 120(8) 150(10) 180(12) 240(16)
Pitch of mounting holes F		15
E		7.5
E reference dimensions	or higher	4.5
	below	12
Maximum length (2)		300 (990)

Note (1) The value in ( ) shows the number of mounting holes.
(2) Length up to the value in ( ) can be produced. Please contact IKO for details.
Remark: If not directed, E dimensions for both ends will be the same within the range of E reference dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification.

Table 2 Tolerance and allowance

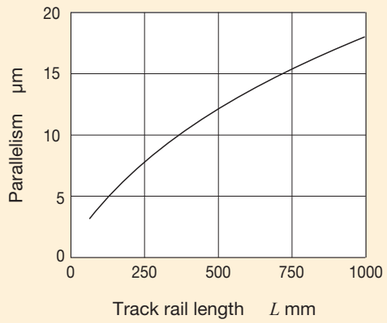


Unit: mm

Item \ Class (Classification symbol)	High (H)
Dim. H tolerance	±0.020
Dim. N tolerance	±0.025
Dim. variation of H (1)	0.015
Dim. variation of N (1)	0.020
Parallelism in operation of the slide unit C surface to A surface	See Fig. 1
Parallelism in operation of the slide unit D surface to B surface	See Fig. 1

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

Fig. 1 Parallelism in operation



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

IKO C-Lube Maintenance Free Series

C-Lube Linear Way ML

ML/MLC (Size 3)

ML series is a super small-size linear motion rolling guides produced by original small sizing technology.
Thanks to the structure with two rows of balls to contact with the way at four points, stable accuracy and rigidity can be achieved even in applications where load has variable direction and size or complex load is applied, despite its very small body.

ML 3 Structure

Variation of ML/MLF

Shape	Length of slide unit	Model	Size							
			3 (1)	5	7	9	12	15	20	25
Standard type	Short	MLC (New)	○	☆	☆	☆	☆	☆	☆	☆
	Standard	ML	○	☆	☆	☆	☆	☆	☆	☆
	Long	MLG	—	—	☆	☆	☆	☆	☆	☆
	Extra long	MLL	—	—	—	☆	☆	☆	—	—

Shape	Length of slide unit	Model	Size						
			6 (1)	10	14	18	24	30	42
Wide type	Short	MLFC	○	☆	☆	☆	☆	☆	☆
	Standard	MLF	○	☆	☆	☆	☆	☆	☆
	Long	MLFG	—	—	☆	☆	☆	☆	☆

Note (1) Steel balls are not retained. No end seal is attached.
Remark: ☆ shows that there is interchangeable specification that allows free combination between slide units and track rails.

Features

1 Long term maintenance free

Lubrication parts "C-lube" are built in the rolling element circulation path for slide unit, achieving the long term maintenance free. This allows the reduction of oiling works and improves the reliability of machine or device.

2 Contributes to small sizing and compactification

As lubrication parts C-Lube are integrated, their slide units, despite the super small size, are not long unlike types with external lubrication parts. Replacement of conventional parts is easy, as it is free from constraints of mounting space and stroke length.

3 Stainless steel selections for excellent corrosion resistance

Stainless steel with high corrosion-resistance is used as the basic specification, so that the products are suitable for applications where rust prevention oil is not preferred, such as in clean room environment.

4 Smooth motion

ML series, with "C-lube" built in, does not generate slide resistance unlike other lubrication parts external to the slide unit that make contact with the track rail. Driving force follow-up property is superior and energy is saved by improvement of accuracy and reduction of friction loss.

5 Dimensional compatibility makes it easy to replace with conventional products

Since this series has the compatibility with conventional LWLC3 and LWL3 in regard to mounting dimensions, achieving maintenance free is possible without design change of machine or device.

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

Example of an Identification Number

ML ❶ C ❷ 3 ❸ C2 ❹ R60 ❺ T0 ❻ P ❼ /D ❽

❶ Format

ML	Standard type

❷ Length of slide unit

C	Short
No symbol	Standard

❸ Size

3

❹ Number of slide units (C○)

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

❺ Track rail length (R○)

Indicate the length of track rail in mm.
For standard and maximum lengths, see Table 1.

❻ Preload amount

Clearance	: T0	For details of the preload amount, see Table 2.

❼ Accuracy class

High Precision	: H : P	For details of accuracy class, see Table 3.

❽ Special specification

/D	Opposite reference surfaces arrangement
/E	Specified rail mounting hole positions
/I	Inspection sheet
/W○	A group of multiple assembled sets
/YCG	Specified grease (IKO Low Dust-Generation Grease for Clean Environment CG2)

Remark: For the details of special specification, see Linear Motion Rolling Guide Series General Catalog CAT-1559E.

Table 1 Standard and maximum lengths of track rail

Unit: mm

Item \ Identification number	ML 3 / MLC 3
Standard length L (1)	30(3) 40(4) 60(6) 80(8) 100(10)
Pitch of mounting holes F	10
E	5
E reference dimensions or higher	3
E reference dimensions below	8
Maximum length (2)	150 (300)

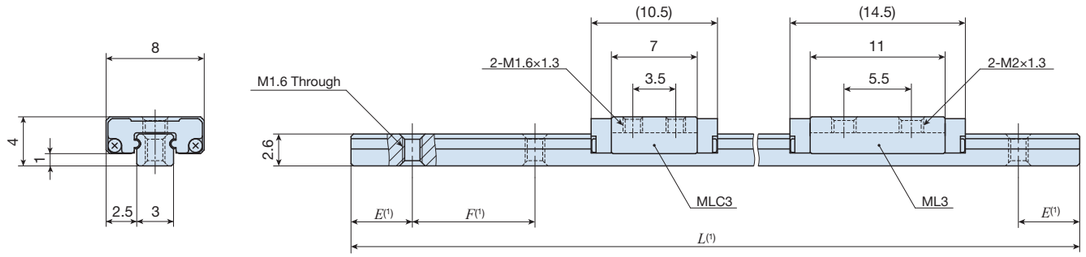
Note (1) The value in ( ) shows the number of mounting holes.
(2) Length up to the value in ( ) can be produced. Please contact IKO for details.
Remark: If not directed, E dimensions for both ends will be the same within the range of E reference dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification.

Table 2 Preload amount

Preload type	Preload symbol	Preload amount N	Operational conditions
Clearance	T0	0(1)	Very light motion

Note (1) There is zero or subtle clearance.

Dimension



Identification number	Mass (Ref.) Slide unit g	Mass (Ref.) Track rail (Per 100mm) g	Track rail (2) appended mounting bolt mm	Basic dynamic load rating (3) C N	Basic static load rating (3) C_0 N	Static moment rating (3) T_0 N·m	Static moment rating (3) T_X N·m	Static moment rating (3) T_Y N·m
MLC 3	0.9	5.3	M1.6×ℓ (4)	272	406	0.65	0.49 2.7	0.58 3.2
ML 3	1.3			371	632	1.0	1.1 5.6	1.3 6.6

Note (1) The dimensions of track rail are described in Table 1.
(2) Track rail mounting bolt is not included.
(3) Basic dynamic load rating (C), basic static load rating (C_0), static moment rating (T_0, T_X, T_Y) are as shown in right figure.
The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units sticking.
(4) Concerning screw length ℓ, prepare the screws whose fixing thread depth is less than the track rail height 2.6.
Remarks: 1 Steel balls are not retained. No end seal is attached.
2 No oil hole is prepared. For re-greasing, apply the grease directly to the raceway of the track rail.

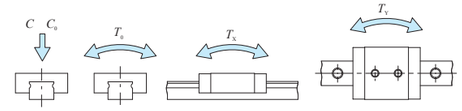
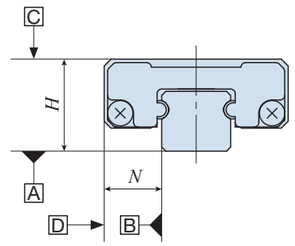


Table 3 Tolerance and allowance

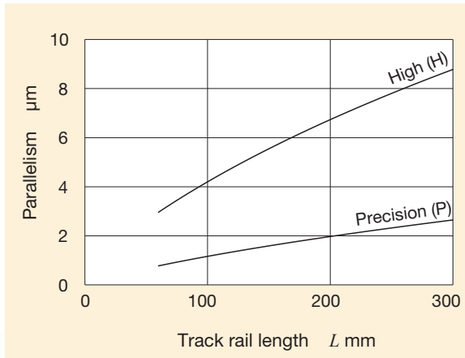


Unit: mm

Item \ Class (Classification symbol)	High (H)	Precision (P)
Dim. H tolerance	±0.020	±0.010
Dim. N tolerance	±0.025	±0.015
Dim. variation of H (1)	0.015	0.007
Dim. variation of N (1)	0.020	0.010
Parallelism in operation of the slide unit C surface to A surface	See Fig. 1	
Parallelism in operation of the slide unit D surface to B surface	See Fig. 1	

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

Fig. 1 Parallelism in operation



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

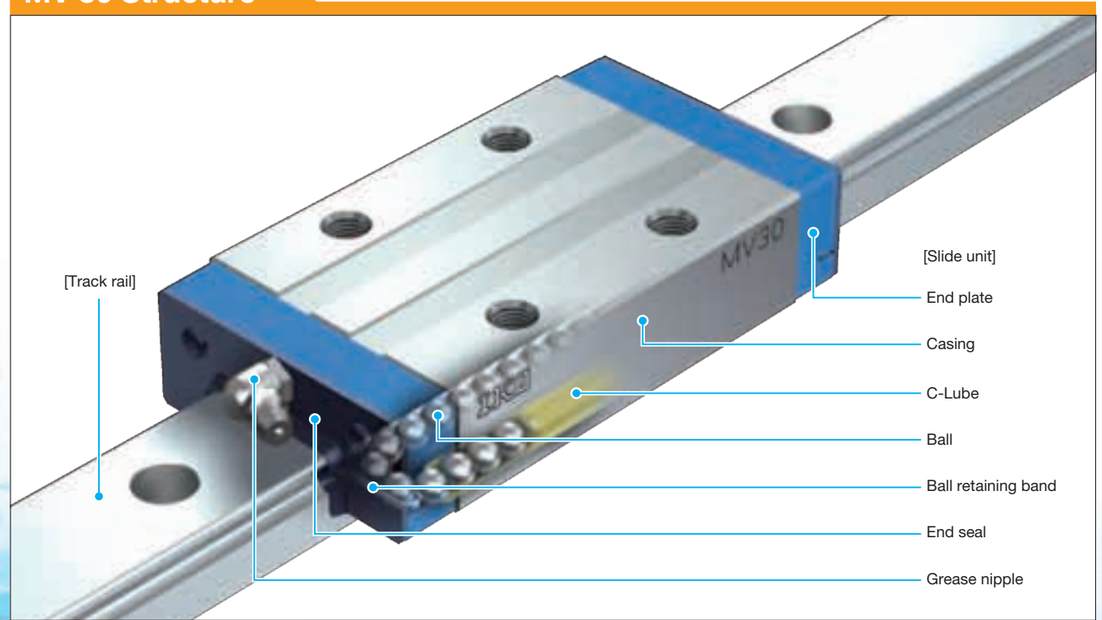
IKO C-Lube Maintenance Free Series

C-Lube Linear Way MV

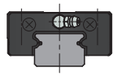
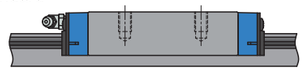
MV (Size 20, 25, 30)

MV series is an extra low profile/extra light weight linear motion rolling guide created by original small sizing technology.
The structure by two-row of balls contacting at four-point to raceway allows, despite extremely low profile and light weight, the maximum downward load rating among the ball types and high load capacity.

MV 30 Structure



Variation of MV

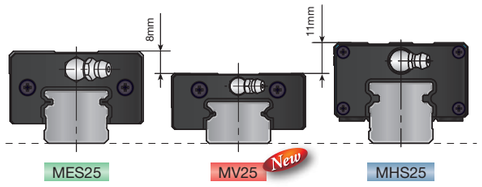
Shape	Length of slide unit	Size		
		20	25	30
	Standard 	○	○	○

Features

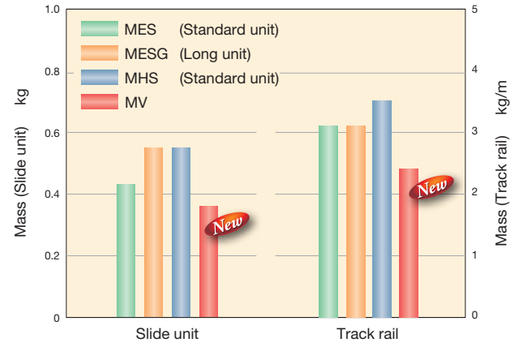
1 Low profile/light weight

Super low profile/super light weight achieved solely because of simple two-row four-point contact structure will contribute to compactification and driving power reduction of machine or device.

Comparison of sectional height (In case of size 25)



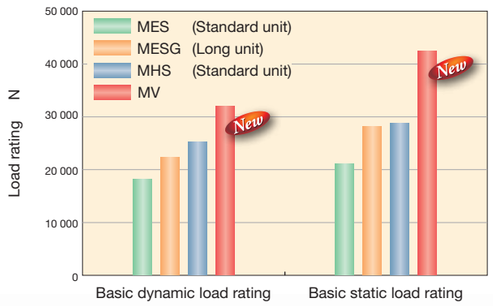
Comparison of mass (In case of size 25)



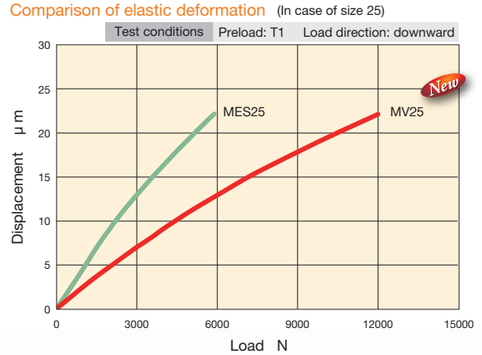
2 High load capacity/high rigidity

Despite the extra low profile and extra light weight, it has large load capacity and high rigidity which contribute to long life and increase safety of machine or device.

Comparison of load rating (In case of size 25)



Comparison of elastic deformation (In case of size 25)



3 Long term maintenance free

Lubrication parts "C-Lube" are built in the slide unit. Lubrication oil is continuously supplied to the surface of rolling elements by surface tension in the contact of C-Lube surface and rolling elements. Furthermore since the lubrication oil in C-Lube is supplied by the amount only necessary to maintain the lubrication performance of rolling guide, the consumption is small, and because the grease is prepacked in the slide unit, long term maintenance free is achieved.

4 Ball retained type for easy operation

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

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

Example of an Identification Number

MV ❶ 20 ❷ C1 ❸ R1000 ❹ T1 ❺ P ❻ /FU ❼

❶ Model

MV

❷ Size

20, 25, 30

❸ Number of slide units (C○)

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

❹ Track rail length (R○)

Indicate the length of track rail in mm.
For standard and maximum lengths, see Table 1.

❺ Preload amount

Clearance : Tc
Standard : No symbol
Light preload : T1

For details of the preload amount, see Table 2.

❻ Accuracy class

Ordinary : No symbol
High : H
Precision : P
Super precision : SP

For details of accuracy class, see Table 3. For applicable combinations of accuracy class and preload amount, see Table 4.

❼ Special specification

/A	Butt-jointing track rails
/D	Opposite reference surfaces arrangement
/E	Specified rail mounting hole positions
/F	Caps for rail mounting holes
/I	Inspection sheet
/L	Black chrome surface treatment
/LF	Fluorine black chrome surface treatment
/MA	With track rail mounting bolt
/N	No seal
/U	Under seal
/V	Double seals
/W	A group of multiple assembled sets
/YCG	Specified grease (IKO Low Dust-Generation Grease for Clean Environment CG2)
/Z	Scraper

Remark: For the details of special specification, see Linear Motion Rolling Guide Series General Catalog CAT-1559E.

Table 1 Standard and maximum lengths of track rail

Unit: mm

Item \ Identification number	MV 20	MV 25	MV 30
Standard length L (1)	220(4) 280(5) 340(6) 460(8) 640(11) 820(14) 1 000(17) 1 240(21)	220(4) 280(5) 340(6) 460(8) 640(11) 820(14) 1 000(17) 1 240(21) 1 600(27)	280(4) 440(6) 600(8) 760(10) 1 000(13) 1 240(16) 1 640(21) 2 040(26) 2 520(32) 3 000(38)
Pitch of mounting holes F	60	60	80
E	20	20	20
E reference dimensions or higher	8	9	9
E reference dimensions below	38	39	49
Maximum length (2)	2 200 (2 980)	2 980	3 000

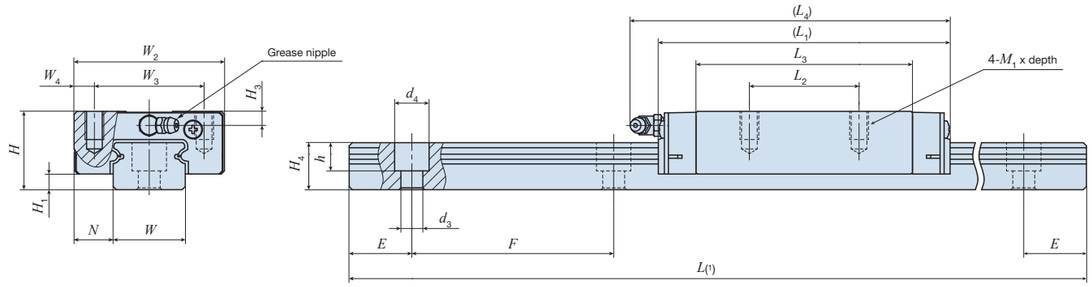
Note (1) The value in ( ) shows the number of mounting holes.
(2) Length up to the value in ( ) can be produced. Please contact IKO for details.
Remark: If not directed, E dimensions for both ends will be the same within the range of E reference dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification.

Table 2 Preload amount

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

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

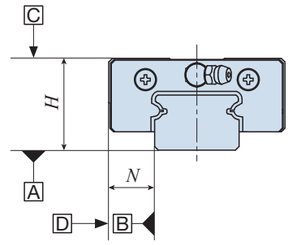
Dimension



Identification number	Mass (Ref.) Slide unit kg	Mass (Ref.) Track rail kg/m	Dimensions of assembly mm H	H_1	N	Dimensions of slide unit mm W_2	W_3	L_1	L_2	Dimensions of track rail mm W	H_4	F	Basic dynamic load rating (2) C N	Basic static load rating (2) C_0 N
MV 20	0.18	1.66	20	5	11	42	32	73	32	20	12	60	19 600	25 600
MV 25	0.36	2.37	25	5	12.5	48	35	94	35	23	15	60	31 900	42 500
MV 30	0.72	3.33	30	6	16	60	40	116	40	28	17	80	46 300	61 800

Note (1) The track rail lengths are shown in Table 1.
(2) Basic dynamic load rating (C) and basic static load rating (C_0) are as shown in right figure.
Remark: For each dimension and detailed specification such as load rating, see Linear Motion Rolling Guide Series General Catalog CAT-1559E.

Table 3 Tolerance and allowance



Unit: mm

Item \ Class (Classification symbol)	Ordinary (No symbol)	High (H)	Precision (P)	Super precision (SP)
Dim. H tolerance	±0.080	±0.040	±0.020	±0.010
Dim. N tolerance	±0.100	±0.050	±0.025	±0.015
Dim. variation of H (1)	0.025	0.015	0.007	0.005
Dim. variation of N (1)	0.030	0.020	0.010	0.007
Parallelism in operation of the slide unit C surface to A surface	See Fig. 1			
Parallelism in operation of the slide unit D surface to B surface	See Fig. 1			

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

Fig. 1 Parallelism in operation

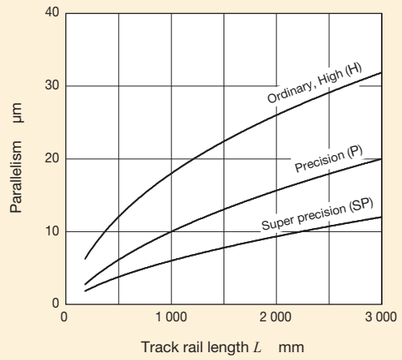


Table 4 Combination of accuracy class and preload

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

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

High Rigidity Type Crossed Roller Bearing

CRBH30025A (UU)

Semi-standard items

High Rigidity Type Crossed Roller Bearing is a high rigidity and high accuracy bearing with single and compact body for both inner and outer rings, which enable simultaneously receiving complex loads such as radial load, axial load and moment load.

Features

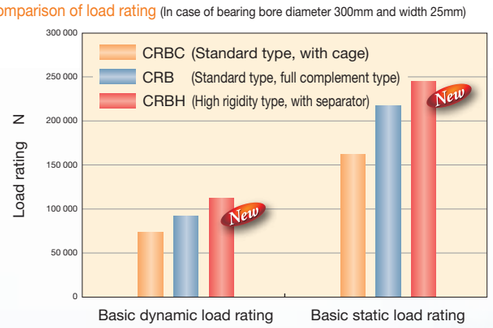
1 High accuracy

Adoption of integrated structure to suppress the mounting errors for both inner and outer rings exhibits high accuracy. It also gives easy handling and easy feeling to use.

2 High rigidity/high load capacity

The use of cylindrical rollers for rolling elements whose rolling surface contacts by line makes a smaller elastic deformation by bearing load, and achieves a high rigidity and high load capacity. Furthermore, since the cylindrical rollers are arranged between inner and outer rings in orthogonal direction, the loads of every direction can be received at the same time.
Also the series has the maximum load capacity among the Crossed Roller Bearings of the same size.

Comparison of load rating (In case of bearing bore diameter 300mm and width 25mm)



3 Smooth rotation

Built in separators between rollers create smooth rotation, and this feature makes it suitable for comparatively high rotation speed. Also by applying preload into bearing, a high accuracy rotation has been achieved even in the cases where vibrating load or fluctuating load is applied.

Example of an Identification Number

CRBH ❶ 300 ❷ 25 ❸ A ❶ UU ❹ C1 ❺ P6 ❻

❶ Model code

CRBH…A	High Rigidity Type Crossed Roller Bearing (With separator)

❷ Dimension

Indicates bearing bore diameter. (Unit: mm)

❸ Dimension

Indicates bearing width. (Unit: mm)

❹ Supplemental code-1

No symbol	Open type
UU	Sealed type
U	One side sealed type

❺ Supplemental code-2

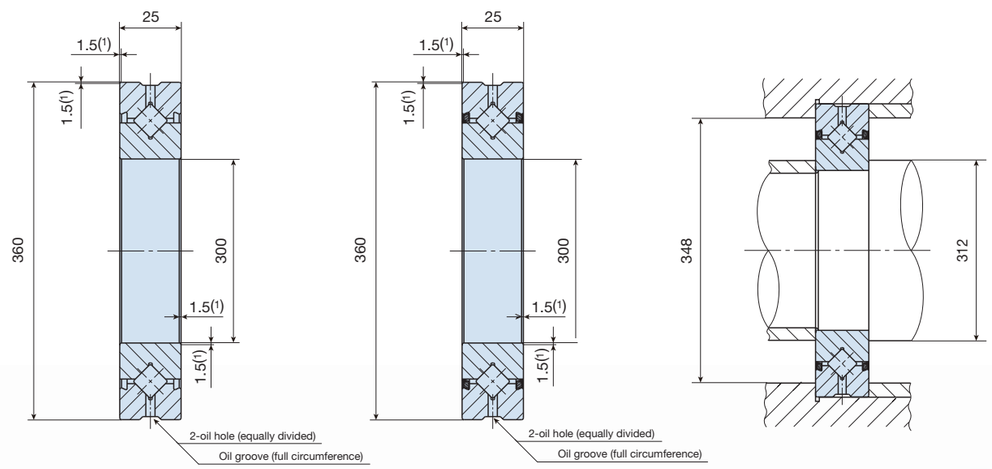
T1	T1 Clearance
C1	C1 Clearance
C2	C2 Clearance

❻ Classification symbol

No symbol	Accuracy class 0
P6	Accuracy class 6
P5	Accuracy class 5
P4	Accuracy class 4
P2	Accuracy class 2

Remark: For each specification and details of accuracy, see Needle Roller Bearing Series General Catalog CAT-5508.2

Dimension



Identification number		Mass (Ref.)	Basic dynamic load rating C	Basic static load rating C_0
Open type	Sealed type	kg	N	N
CRBH30025A	CRBH30025AUU	5.29	112 000	245 000

Note (1) It represents the minimum allowable single value of chamfer dimensions.
Remark: Grease is not pre-packed for the open type. Use the product with appropriate lubrication. Grease is pre-packed for the sealed type.

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

Nano Linear NT

Motion network support

Nano Linear NT series is a linear motor table with extremely low profile by moving magnet type.
In addition to conventional pulse train command input and major motion networks such as EtherCAT and SSCNET, MECHATROLINK has now joined as the selectable network.

Features

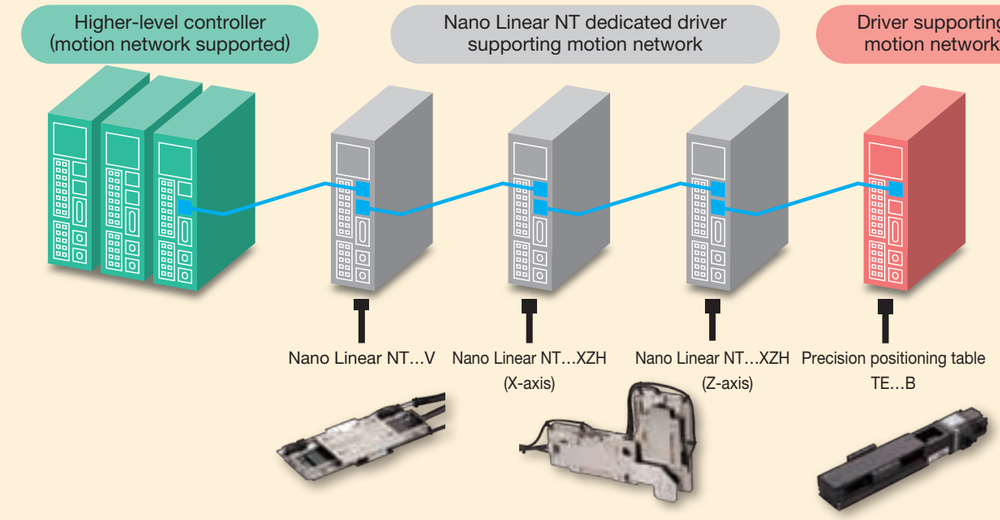
MECHATROLINK-Ⅱ and MECHATROLINK-Ⅲ supported

Major motion network systems are now supportable since MECHATROLINK, in addition to EtherCAT and SSCNET, has joined for selectable networks.
Furthermore, MECHATROLINK-Ⅱ and MECHATROLINK-Ⅲ are also supported. Please specify the standard you wish to use.

An Overview of MECHATROLINK-Ⅱ	MECHATROLINK-Ⅱ is a bus network allowing a maximum of 30 node addresses and supporting comm. cycles of 0.25 to 8 ms. All slave stations on the network can be run synchronously. Although MECHATROLINK-Ⅱ is specialized for motion control applications, it also allows a remote I/O signals to be connected to the same network.
An Overview of MECHATROLINK-Ⅲ	MECHATROLINK-Ⅲ achieves high-speed communications at a baud rate of 100 Mbps by applying Ethernet technology to the physical layer. Furthermore, MECHATROLINK-Ⅲ controls 62 slaves in perfect synchronization using ASICs while achieving the high-speed cyclic communications required for motion control and high-capacity message communications.

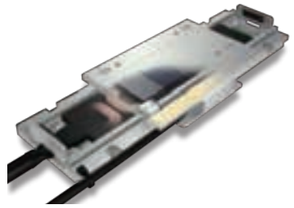
Motion Network Connection Image

The use of motion network connection has enabled a high level system configuration with streamlined wiring.



Nano Linear NT Supporting Motion Network

NT…V
(Standard type)



Extra compact standard type with low profile

NT…XZ
(Pick & place unit)

Extra thin and high tact pick & place unit with width 18mm

NT…XZH
(High thrust pick & place unit)

High thrust pick & place unit with high thrust and high tact which was brought about by the light weight of moving part

Nano Linear NT Standard Driver Supporting Table

Model	Driver for pulse train input	Driver supporting motion network		
	ADVA Series made by Hitachi Industrial Equipment Systems Co., Ltd	ADVA Series made by Hitachi Industrial Equipment Systems Co., Ltd EtherCAT	MR-J3 Series made by Mitsubishi Electric Corporation SSCNET SERVO SYSTEM CONTROLLER NETWORK	SGDV Series made by YASKAWA ELECTRIC CORPORATION MECHATROLINK New
NT55V	☆	☆	☆	Both MECHATROLINK-II and III are supported. Since these are custom order products, please contact IKO.
NT80V	☆	☆	☆	
NT80XZ	☆	☆	—	
NT90XZH	☆	☆	—	

Remarks: 1 EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.
2 For each driver, a model number dedicated to Nano Linear NT is set up. For details, see IKO Mechatronics Series General Catalog CAT-1556.3E

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

IKO General Catalog

For a brochure version of general catalog of each series, please request on IKO web site, or contact your nearest branch or sales office.
PDF files are available to download in IKO web site.

Linear Motion Rolling Guide Series

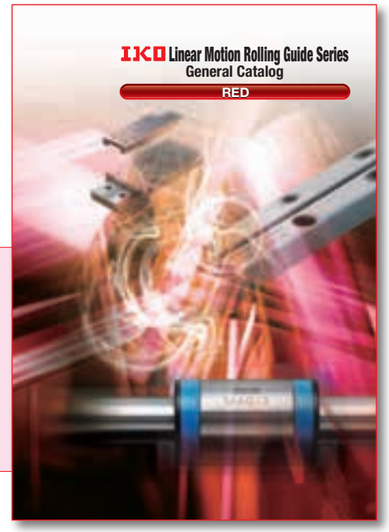
IKO Linear Motion Rolling Guide Series General Catalog consists of **BLUE** and **RED**.

BLUE

- Linear Way
- Linear Roller Way

RED

- Crossed Roller Way
- Linear Slide Unit
- Linear Ball Spline
- Linear Bushing
- Stroke Rotary Bushing
- Roller Way & Flat Roller Cage



Needle Roller Bearing Series

Mechatronics Series

IKO Website

Wide variety of product information are available on IKO website. CAD data, PDF catalogs, and even trade show schedule are available on the website.

IKO 検索 click! **http://www.ikont.co.jp/eg/**

Product information

You can search for products by product series and bearing motion direction. Features of products are described in individual product pages in an easy-to-understand way.

Download

〈**CAD data**〉
CAD data of each product can be downloaded. 2-dimensional and 3-dimensional CAD data are available.

〈**Product catalog**〉
Product catalogs can be downloaded in PDF format.

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