IK Linear Motion Rolling Guide Series,

IKO Linear Motion Rolling Guide Series General Catalog Consists of

BLUE and (CAT-1578E)



[Models]

Rail Guide Type **Endless Linear Motion Type**

CAT-1578E

C-Lube Linear Way ML C-Lube Linear Way MLV C-Lube Linear Way MV C-Lube Linear Way ME C-Lube Linear Way MH Linear Way L Linear Way E Linear Way H MV **ME** · LWE **MH** · LWH



Linear Way F

LWF





Linear Way U **MUL** · LWU

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





LWLM · LWM LRWM

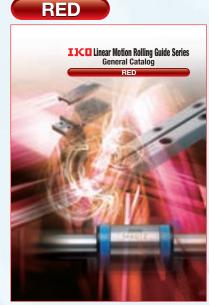


www.rodavigo.net +34 986 288118

Configuration of General Catalog



. the two volumes.



CAT-1579E

[Models]

Rail Guide Type Limited Linear Motion Type

Shaft Guide Type **Endless Linear Motion Type** Limited Linear Motion Type Limited Linear Motion Type + Rolling Motion Type

Flat Guide Type **Endless Linear Motion Type** Limited Linear Motion Type

Rail Guide Type **Crossed Roller Way** CRW(G)(…H) CRWU(G)

Rail Guide Type Linear Slide Unit



BWU·BSP(G) BSU---A



Flat Guide Type

Shaft Guide Type

Linear Ball Spline

MAG·LSAG

LSB · LS

Shaft Guide Type Linear Bushing LMG · LM · LMS



Shaft Guide Type Stroke Rotary Bushing ST · STSI · BG



Roller Way & Flat Roller Cage **RW · SR · GSN** FT·FTW···A



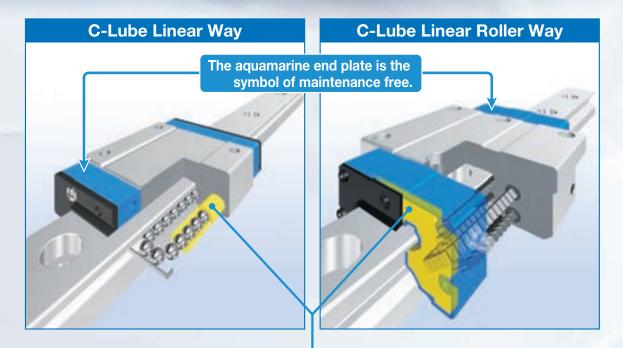
M48

Μ

IKO Features of Maintenance Free Series

Oil Minimum Gentle to The Earth

Features of C-Lube Linear Way and C-Lube Linear Roller Way **Original and world's first** structure with [C-Lube]



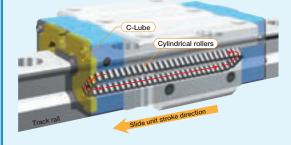
C-Lube integrated

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.

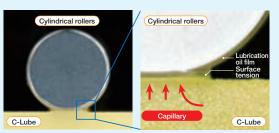


Lubrication oil is directly supplied to surfaces of the rolling elements

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.

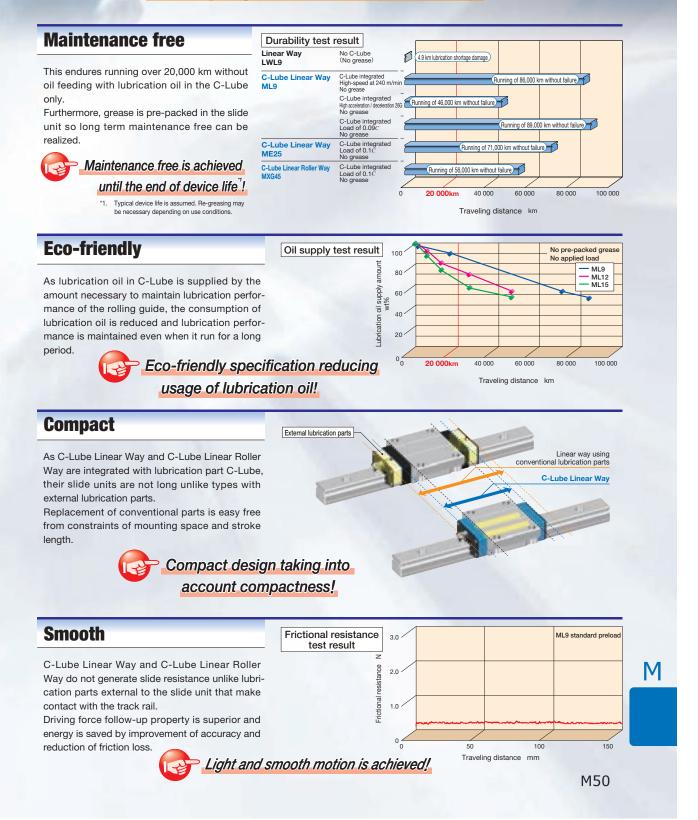
On the surface of capillary lubricating element with which the rolling elements make contact, new lubrication oil is always supplied from the other sections



Long term maintenance free is realized with



oil impregnated with C-Lube only !!



Models and Size Variations

A variety of models and size variations



Wide type

LWLF

MLF

Standard type

ML

LWL

Ball Type Miniature Series

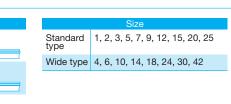
C-Lube Linear Way ML C-Lube Linear Way MLV Linear Way L

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.

Micro Linear Way L

As the lineup of track rail width from 1 mm to 6 mm is available, you can select an optimal product for the specifications of your machine and device. For LWL1, world's smallest size is realized: track rail width of 1 mm, slide unit width of 4 mm and assembly height of 2.5 mm.

С Standard No symbol Long G Extra long L





Ball Type Low Profile/Light Weight Series **C-Lube Linear Way MV**

1

Despite its extra low profile and extra light weight, this linear motion rolling guide has the maximum load rating among the ball types while achieving high load capacity.





20, 25, 30

15, 20, 25, 30, 35, 45

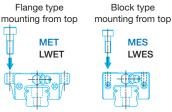


Ball Type Compact Series

C-Lube Linear Way ME Linear Way E Low Decibel Linear Way E

Versatile linear motion rolling guide that has achieved utility pursuing compactness in every aspect. Low decibel types with resin separator to prevent direct contact between balls are also available.

Flange type mounting from bottom ME IWF



С MES LWES No symbol G

Block type

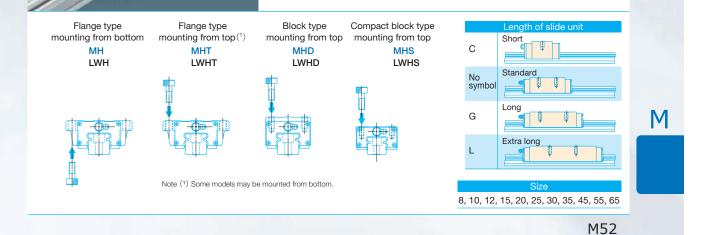
Long **Ball Type High Rigidity Series**

Short

Standa

C-Lube Linear Way MH Linear Way H

High rigidity linear motion rolling guides designed to evenly support high load capacity by incorporating large-diameter balls. Stable accuracy and rigidity can be achieved even in applications where load with variable direction and size and complex load are applied.



Models and Size Variations

A variety of models and size variations



Ball Type Wide Type Series

Linear Way F

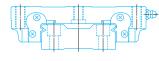
As wide track rail is used and the distance between the load points is long, this is a linear motion rolling guide suitable to single-row use due to the structure resistant to across-the-width moment load. It is also resistant to complex load.

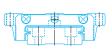
Flange type mounting from top / bottom LWFH

Flange type mounting from top / bottom LWFF

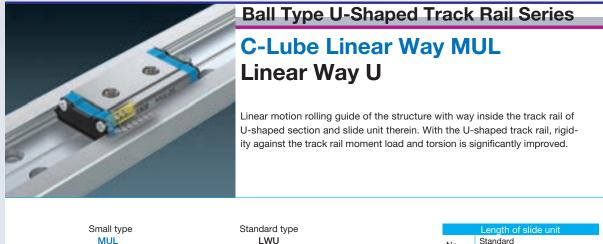
Block type mounting from top LWFS

Standard No symbol 9 LWFH 40,60,90 LWFF 33,37,42,69 LWFS 33,37,42

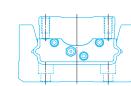








LWUL



No symbol MUL 25, 30 LWUL 25, 30 LWU 40, 50, 60, 86, 100, 130



IKO

Mechatronics Series

TU Series

IKO Precision Positioning Table TU is a compact and slim positioning table with good load balance and high resistance to complex loads, in which the side table is arranged inside the U-shape track rail. Six types with a track rail width of $25 \sim 130 \text{mm}$ are available. Each slide table length can be selected as required. Different table specifications includ-



ing ball screw, motor, sensor, etc. can be selected. This allows each user to configure the most suitable positioning table for each application.

Abundant options meet diversified market needs such as a motor loopback specification, table with bellows, table with bridge cover, and table finished by black chrome surface treatment.

Linear Motor Table LT

The IKO Linear Motor Table LT is a compact and lightweight directdrive positioning table with a very small sectional height in which an AC servo-motor and an optional linear scale are integrated in a moving table and a bed made of aluminum alloy.

The IKO Linear Motor Table LT employs a C-shaped magnet yoke, and a coil board is sandwiched between two stator magnets. It pro-



vides a high thrust of 450N though its height is only 40 mm. The moving table is as light as 1.5 kg but provides high thrust. It permits high acceleration and deceleration exceeding 10 G. (In the case of LT150 CG.) Also, High Thrust Series LT…H outputs 900N thrust.

Using advanced servo technology, this product achieves high static stability and high-speed stability.

IKO

Presentation of Mechatronics Series



Μ

IKO Introduction of Technical Service Site

"IKO Technical Service Site" can be accessed from our home page. The site provides various tools for selecting Linear Ways and Linear Roller Ways. Please utilize these tools for assistance when selecting products. Additionally the site also provides CAD data and product catalogs for the Needle Series, Linear Motion Rolling Guide Series, and Mechatronics Series for download. Please utilize them to improve your design efficiency.



1. Technical calculations

For Linear Way/Linear Roller Way load and life calculation, you can obtain the calculated load and the rating life by entering the operating conditions.

Also you can derive the motor torque required for operation and the effective thrust force during operation in the sections of motor torque calculation and calculation of effective thrust force of linear motor tables respectively, and output the calculation results in PDF format, as well as save the histories.

2. Selection of Identification Number

By selecting such specification as model code, dimensions, part code, material code, preload symbol, classification symbol, interchangeable code and supplemental code of Linear ways/Linear roller ways, you can easily specify the identification number used for ordering.

Also you can browse the CAD data of the selected products, calculate the load, and output the selection results in PDF format, as well as save the histories.

3. Downloading CAD data

2-dimensional CAD data (DXF file)

There are two types of figures, brief figure and detailed figure. The brief figure shows only the external view lines, and the detailed figure shows the detailed lines. The drawing consists of three drawings: front view, side view and plain view. The scale shows only the original size (1:1), and it does not show dimension lines.

IKO Technical	Service Site	-	
CID data to product			
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3-dimensional CAD data

IXO

It is linked to the mechanical parts CAD library "PART community". Entering the rail dimension and option contents to the detail, you can view the 2D/3D CAD data suitable for the specification for free of charge.

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4. Downloading Catalog and Operation Manual

You can download product catalogs of needle series, linear motion rolling guide series and mechatronics series, operation manuals of precision positioning tables and various electrical components in PDF format, as well as support software for precision positioning tables. If you would like a copy of our catalog, please visit the IKO official website and apply for the catalog, or contact our regional office or sales office nearby.

