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NIPPON THOMPSON CO., LTD.



Linear Guiding Parts Compact, High-Accuracy, Stainless Steel for All



C-Lube Linear Way ML

Wide rail type

Wide rail t

MLF

LWLF

C-Lube Linear Way ML



COMPACT STAINLESS Thanks to a design featuring two rows of balls

that contact the raceway at four points, stable accuracy and rigidity can be achieved despite the unit's small size. This is true even in applications where loads have variable direction and size or complex load is applied. A wide variety of shapes and sizes are available, enabling selection based on the specific application.







IKO's proprietary solid lubricant, C-Lube, is impregnated with a large volume of lubrication oil to provide over 20,000km of operation without the need for relubrication. This makes the device maintenance-free for the life of the bearing.

Structure

Lubrication oil is continuously supplied to the surface of the rolling elements via surface tension without contacting the track rail.





10, 14, 18, 24, 30, 42

Corrosion Resistance

For highly corrosion-resistant stainless steel specifications, this product is suitable for use in cleanrooms and applications where rust prevention oil cannot be used.

Linear Way Series

Wide Rail Type



Maintains the same performance as C-Lube Linear Way ML, but this unit's overall length and width (W) have been increased, along with the load rating and allowable moment. Stable accuracy and smooth movement can be achieved even when complex loads are applied.

Length of slide unit							
С	Short						
No symbol	Standard						
G							

wide range of stainless steel specification products as standard, making in applications where oil and rust prevention oil must be avoided.

Special Orders

Products for which stainless steel specifications are not standard can be individually manufactured. Please contact IKO for details.

Micro Linear Way L



	Size
Standard type	1, 2, 3
Wide rail type	2, 4, 6

type ML LWL

Ultra-Small Rail Width of 1mm!

With its ultra-small size, LWL1 supports the super miniaturization of machines and devices required for designs of today and for the future.

Even the smallest size of 1mm* features High accuracy Secure mounting and fixing* Stable operation

*Track rail width of 1 mm **Tapped rail specifications







Created with proprietary miniaturization technology, Micro Linear Way L is available in track rail widths from 1 to 6 millimeters. High micro-positioning is attained with linear way accuracy, making the micro-sized unit optimal in locations where reliability is required.







High Load Capacity, High Rigidity, and High Accuracy

for Equipment Conveying Heavy Objects



C-Lube Linear Way ME







IKO linear products feature compact designs and simple structures.



All Linear Way series adopt two-row raceways with four-point contact. Their simple structure contributes to miniaturization and provides smooth and highly precise action.





High Load Capacity This linear motion rolling guide features high load capacity with the highest downward load rating among ball-type models.

Low Profile

Low sectional height compared to the ME and MH Series helps keep machinery and equipment compact.





* Excluding the MHD Series with block-type mounting from the top

20, 25, 30



Block type -080-6 mounting top MV





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

Flange type mounting from top / bottom MX (1) / LRX (1)



Super High Rigidity

deformation unde load.



This extra-long unit with maximum slide unit length utilizes superior characteristics including rigidity, load capacity, running accuracy and vibration damping to achieve the highest performance

Compact Size, High Accuracy, Smooth Motion for Lens Focus Mechanisms and More



High-Precision Linear Slide Unit



This small unit with limited stroke features balls and a retainer between an integrated table and bed. It makes contact with the raceway at four points, providing accuracy and rigidity in applications where a fluctuating or complex load is applied.

														u	nit: mm
Chana	Model		Width		Length										
Shape		width	10	15	20	25	30	40	45	60	75	80	90	100	120
		6	0	-	0	-	0	-	-	-	-	-	-	-	-
		8	0	-	0	-	0	-	-	-	-	-	-	-	-
		10	-	0	-	0	-	0	-	-	-	-	-	-	-
		12	-	-	0	-	0	-	0	-	-	-	-	-	-
	BWU	17	-	-	0	-	0	-	0	-	-	-	-	-	-
		25	-	-	-	-	0	-	0	0	0	-	-	-	-
		30	-	-	-	-	0	-	0	0	0	-	0	-	-
		40	-	-	-	-	-	0	-	0	-	0	-	0	-
		60	-	-	-	-	-	-	-	0	-	0	-	0	0

Ideal for Use in Cleanrooms

Optimal linear guides for machinery and equipment used in cleanrooms and other locations requiring high cleanliness, all components table, balls, cage, bed, end stopper, etc. employ stainless steel for excellent corrosion prevention and heat resistance.



Precision Linear Slide Unit

Endl



COMPACT STAINLESS

This extremely compact and lightweight unit with the way and mounting surface integrated has been made by precisely molding a stainless steel plate into a U shape. A wide range of applications are supported in both the limited linear motion type, which features smooth motion, and the endless linear motion type, featuring a long stroke.







Smooth, **Quiet Motion**

The superior retaining and guiding mechanism of the balls and precision-finished raceway surface produces extremely quiet, low-friction linear motion. High response characteristics and positioning accuracy are obtained for micro-feeding operations as well.



High Accuracy and Stable Performance

A two-row steel ball array makes contact with the raceway at four points, providing stable load capacity in all directions. The simple structure also has low machining and mounting error, enabling long-term, high-motion accuracy.

Retinal Diagnostic Solutions

Precision Linear Slide With Built-In Rack & Pinion

COMPACT STAINLESS

A pinion gear assembled in the retainer is integrated with a stud diameter ball raceway that is engaged with the racks fixed to the table and bed to prevent creeping of the retainer position. Like the BSP, this type also achieves smooth linear motion.

Model	Width							
Woder	7	10	12	15	20	25		
BSPG	-	-	0	0	0	0		





Simple and Capable of Complex Loads

Multi-functional Small-size Automatic Analysis Equipment

Linear Ball Spline Series

C-Lube Linear Ball Spline MAG/Linear Ball Spline G

Flange type

No svmbo



Standard type Flange type Solid shaft Solid shaft MAG MAGE LSAG

Standard type Hollow shaft MAGT











Flange type



Since the structure has balls rotating on the spline track groove, it receives

not only radial load but also rotating torque. Since the torque is transmitted

with high rigidity, it provides smooth linear motion. The linear ball spline is

2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30

also extremely compact, thanks to its simple structure.

Standard type 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30



This optimal design based on thorough analysis of ball recirculating routes achieves low frictional resistance and smooth linear motion for high-speed operations.

Crossed Roller Bearings Series

High Rigidity Crossed Roller Bearings V



Crossed Roller Bearings are compact bearings with their rollers alternately crossed at right angles to each other between inner and outer rings. They can take loads from any direction at the same time, such as radial, axial, and moment loads. The rollers make line contact with raceway surfaces and, as a result, elastic deformation due to load is very low. They are widely used in the rotating parts of medical equipment and similar devices requiring a compact size, high rigidity and high rotational accuracy.

Variation									
Size	Size Shaft dia. 20-250mm								
Seal	Yes None								
Clearance	T1 (Preloa	d)	C1 (Slight)				C2 (Medium)		
Accuracy class	Class 0	P6 RP6		P5 RP5			P4 RP4	P2 RP2	
Accuracy High									

Diverse Special Products Available Upon Request

IKO's multi-model production approach provides unique flexibility, enabling Crossed Roller Bearings to be customized based on individual specifications and application usage. Past special orders include shapes, sizes, surface treatments, and more, not available as standard



Special Surface Treatment Specification Linear Motion Bolling Guide Int



Mounting Holed Type Super Slim Crossed Roller Bearings



Made possible thanks to IKO's technological expertise in miniature bearing production, these bearings have an ultra-slim width of 5 millimeters. Because the built-in equipment rotation guiding parts have been made more compact, dynamic load is lighter during operation, saving energy and contributing to carbon-neutral operation.

Variation							
Size	Shaft dia. 10-40mm						
Seal	None						
Clearance	C1 (Slight)						
Accuracy class	No symbol (P6 equivalent)						

Easy Bolt-On Mounting Eliminates Complex Mounting Procedures.

Mounting Holed Type Super Slim Crossed Roller Bearings can be mounted directly to the mounting surface. No housing or pressure plate required.



 Mounting Holed Type Super Slim Crossed Roller Bearing Mounting Method

Bolt-on direct mounting is possible



A Variety of Cam Follower Options for Various

Conveyor Parts



Standard Type Cam Followers CF---B



Cam Followers are bearings with a stud incorporating needle rollers in a thick-walled outer ring. They are designed for outer-ring rotation with superior rotational performance, a low friction coefficient, and high load capacity. Standard Type Cam Followers CF...B, the basic cam follower model, are available in a wide range of sizes with stud diameters ranging from 3 to 30 millimeters.





CFS. CFS···W



Type of materia Stainless E No With cage Roller guide meth \mathbf{O} v No Shield type Seal structure υu Sealed type Shape of No Cylindrical ter ring outer ring outside Crowned R outer ring surface

head bolt (*

An ultrafine needle roller is incorporated into the bearing outer ring, attaining a compact design with an outer-ring outside diameter that is small relative to the stud diameter. Used in electronic devices, OA equipment, small index devices, etc. **Cam Followers** with a stud diameter of just 1.4mm!

Short Stud Type Cam Followers CFC

Short Stud Cam Followers CFC---B have a new mounting structure featuring a hexagon socket head bolt and a dedicated flange nut (patent pending). This structure maintains the performance of the cam follower while making it more compact and mountable. Since CFC···B needs far less mounting space than conventional cam followers, it enables greater design freedom, improving production efficiency in a wide range of industries.





1. Supplied as an ac

C-Lube Cam Followers CF···/SG **C-Lube Unit CL** C-Lube





Boasts consecutive porous resin molding formed from fine resin powder. impregnated with a lot of lubrication oil, by using the capillary action that occurs within the internal space.

These maintenance-free Cam

Followers are pre-packed with

C-Lube, Comprised of lubrication

oil and fine particles of super-high

molecular polyolefin resin that are

thermally solidified, C-Lube oozes

onto the raceway in a controlled

release as the outer ring rotates,

performance inside the cam

follower

maintaining long-term lubrication

Note) Please purchase as a se C-Lube Unit.

Ideal Combination - C-Lube Units and C-Lube Cam Followers

The combination of C-Lube Cam Followers CF--WB--/SG and C-Lube Units for Cam Followers CL offer maintenance-free operation and long life. Regular lubrication is not required since the cam follower is prepacked with a solid type ant that pro



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CFL Cam Followers with Resin

Extremely compact CFL Cam Followers with Resin have an embedded outer ring integrally molded from resin. Both self-lubricating and shock-absorbing types are available, depending on your application.



Self-lubricating type (POM)

• Less deformation than the shock-absorbing type, with high allowable load Resin with high lubrication is used, enabling smooth guidance

Stud diameter mm	Identification number
6	CFL 6PBJ
8	CFL 8PBJ
10	CFL10PBJ
12	CFL12PBJ



Shock-Absorbing Type (TPU)

- Elastic urethane rubber (Shore hardness A90) absorbs shock and vibration.
- Lactone-based polyurethane provides excellent mechanical properties and hvdrolvsis resistance

Stud diameter mm	Identification number
6	CFL 6TBJ
8	CFL 8TBJ
10	CFL10TBJ
12	CFL12TBJ

Quiet

The resin absorbs vibration and suppresses noise during rotation. A quiet environm can be maintained without covers or sheets

Scratch-proof

Unlikely to scratch the opposite surface, it prevents workpiece damage or scratching. Also ideal for shipping completed

Maintenance-Free

Long-term use is possible without greasing the outside diameter surface. Prevents contamination of the surrounding environment.



NT80V25 NT38V10 NT80V65 NT55V25 NT38V18 NT80V120 NT55V65 لمرج _____PL





resistant to moment and complex load.



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Model and size	Bed length	Ball screw lead mm	Stroke mm	Speed mm/s	Suction amount L/min	Cleanliness class (ISO 14644-1)
	150	4	50	200	5	Class 2
TC50EB	200	4	100	200	10	Class 2
	300	8	200	400	10	Class 2
	150	5	50	250	30	Class 3
TC60EB	300	10	200	500	30	Class 3
	600	10	500	500	30	Class 3
	340	10	200	500	30	Class 3
TC86EB	640	10	500	500	40	Class 3
ICODED	640	20	500	1000	70	Class 3
	940	20	800	560	40	Class 3





Support for Special Environments

Precision Cleaning/Clean Packaging Specifications

Everything from

assembly through

packaging

conducted in a clean

environment!

We offer support for precision cleaning and assembly, inspection and packaging conducted in environments with controlled cleanliness. Work is done in an ISO14644-1 (cleanliness class 6) environment, suited to packaging products used with equipment in clean environments and high-vacuum environments. Consider these options in combination with stainless steel products with high rust prevention capacity and the Liquid Crystal Lubricant Series with excellent dust suppression.

Features

is realized.

High Cleanliness

Because everything from assembly through inspection to packaging is conducted in the same ISO-compliant cleanroom, there is no risk of contamination between processes so high cleanliness Diverse Packaging Specifications Reduced Acceptance Processes Low-dust dedicated Because the product is packaging paper is used. packaged in a clean Special packaging is also environment, customers may available upon request. For forgo the typical cleaning detailed information, please process. After unpacking, the contact IKO. product can be assembled as-is onto the equipment in the vacuum environment

Applicable products

Compatible series
Linear Way L Series

- Linear Way E Series
- Linear Way H Series
- Linear Way F Series
- Linear Roller Way Super X Series

otion rolling guide series or Needle Roller Bearing Series pot lis



where it is to be used.

Black Chrome Surface Treatment

Black chrome surface treatment on the track rail and slide unit improves rust prevention performance.

Fluorine Black Chrome Surface Treatment

A fluorinated resin coating is applied over the black chrome surface treatment to prevent the adherence of foreign substances and to improve rust prevention performance.







Excellent at diffusing light, it is effective in preventing malfunctions in the optical sensors, etc., currently used for positioning ultra-precision devices.

Liquid Crystal Lubricant Series

A new lubricant, neither grease nor oil

Liquid crystal lubricants are completely different from greases composed of base oils and thickeners. They are composed only of liquid crystal compounds, forming a completely new type of lubricant. Conventional grease base oils lubricate using dissimilar molecules, causing difficulties with adhesion to metal surfaces and evaporation. Liquid crystal lubricant forms molecular aggregates, improving adhesion to metal surfaces and minimizing evaporation. The IKO Liquid Crystal Lubricant used in this Series provides excellent lubrication functionality, even under high contact pressure during rolling contact, which results in extremely high performance.

Environmental Benefits

Liquid Crystal Lubricant generates minimal dust and evaporation, making it highly clean. Because it is composed only of carbon, hydrogen and oxygen, it does not contain organic fluorine compounds (PFAS) and supports halogen-free use. In addition, no toxic gases are emitted when burned.

Superior Lubrication Durability

Whether in high-temperature or room-temperature conditions, lubrication durability is far superior to conventional grease. Load durability tests realize a traveling distance six times that of conventional fluorine grease in high temperatures and 70 times at room temperature.

Load Durability (room temperature)

Long-term durability exceeds 70 times that of fluorine grease at room temperature and atmospheric pressure.



Evaporation Characteristics

There is zero mass loss even at 100°C. Liquid Crystal Lubricants have no loss due to evaporation.



Precautions for Use

- Precautions for Use Continuous operating temperature range: 5 to 100°C (maximum operating temperature 120°C) The unit must be stored in a dry and clean place with low humidity and unpacked in the same environment before use, as nust prevention oil has not been The LCL Linear Way is packed in clean condition, and therefore cleaning or wiping down after removal from the packaging is not neces Using Charge and Lubricant has howerscent properties under certain ultraviolet light. Use gloves when handling so that the Liquid Crystal Lubricant does not touch the skin directly. Respective values used in tables are for reference and are not guaranteed values.





Low Dust-Generation Properties

Dust generation is less than 1/10 of lithium soap-based grease.



Manufacturing Support Model Number

- Linear Way L Series
- · Linear Way H Series
- Linear Roller Way Super X Series

Linear Holler way super a Genes Crossed Roller Bearings Series 1 Liquid Crystal Lubricant Series products are made to 4 sequencials for stainlass steel models from each seri