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IKO Product Guide

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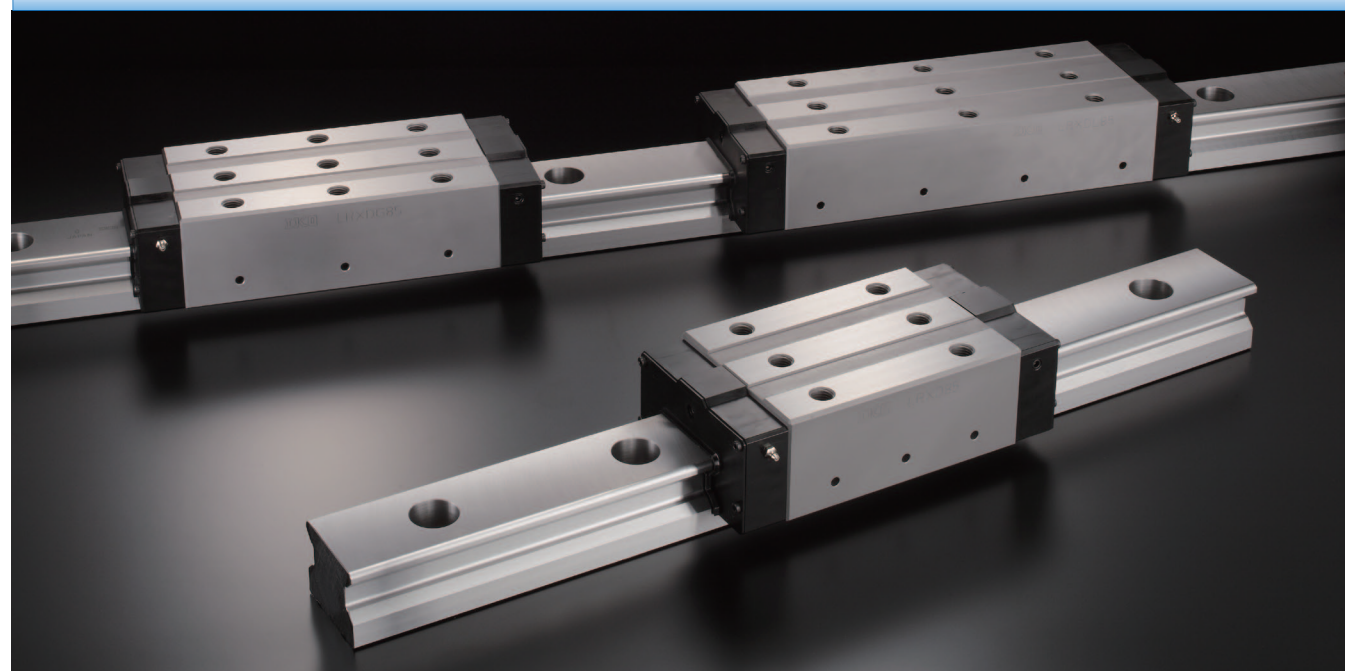
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Linear Roller Way Super X **LRXD (G,L) Size 85**

P.3 - 6



- Series is now available in the 85mm size in standard, long and extra long lengths.
- Several cylindrical rollers are incorporated into the slide unit to provide ultra-high load capacity and ultra-high rigidity.
- IKO**'s unique cylindrical roller cage system provides super-smooth operation.
- Recirculating cylindrical roller design has been optimized to ensure high running accuracy.

Double Hex Hole Cam Followers

CFKR

P.9 - 10



- Newly released Cam Followers with Hex Hole in both ends of the stud.
- Improvements increase Cam Follower mounting ease.

Stainless Steel Roller Followers

NART...F

P.11 - 12



- Roller Followers are now available in stainless steel.
- All steel components are made of stainless steel for excellent corrosion resistance.

Integrated Anti-Creep Cage Crossed Roller Way H **CRWG...H Size 1**

P.7 - 8



- Series is now available in size 1.
- IKO**'s unique rack & pinion structure integration completely solves cage creep issues.
- The highly precise track surface and ultra-precision rollers allow both high-accuracy and smooth operation.

C-Lube Roller Followers

NART.../SG

P.13 - 14



- Series is now available with integrated C-Lube.
- Long term maintenance-free is made possible with built in C-Lube.

Linear Motor Driver

ADVA, MR-J4

P.15 - 20



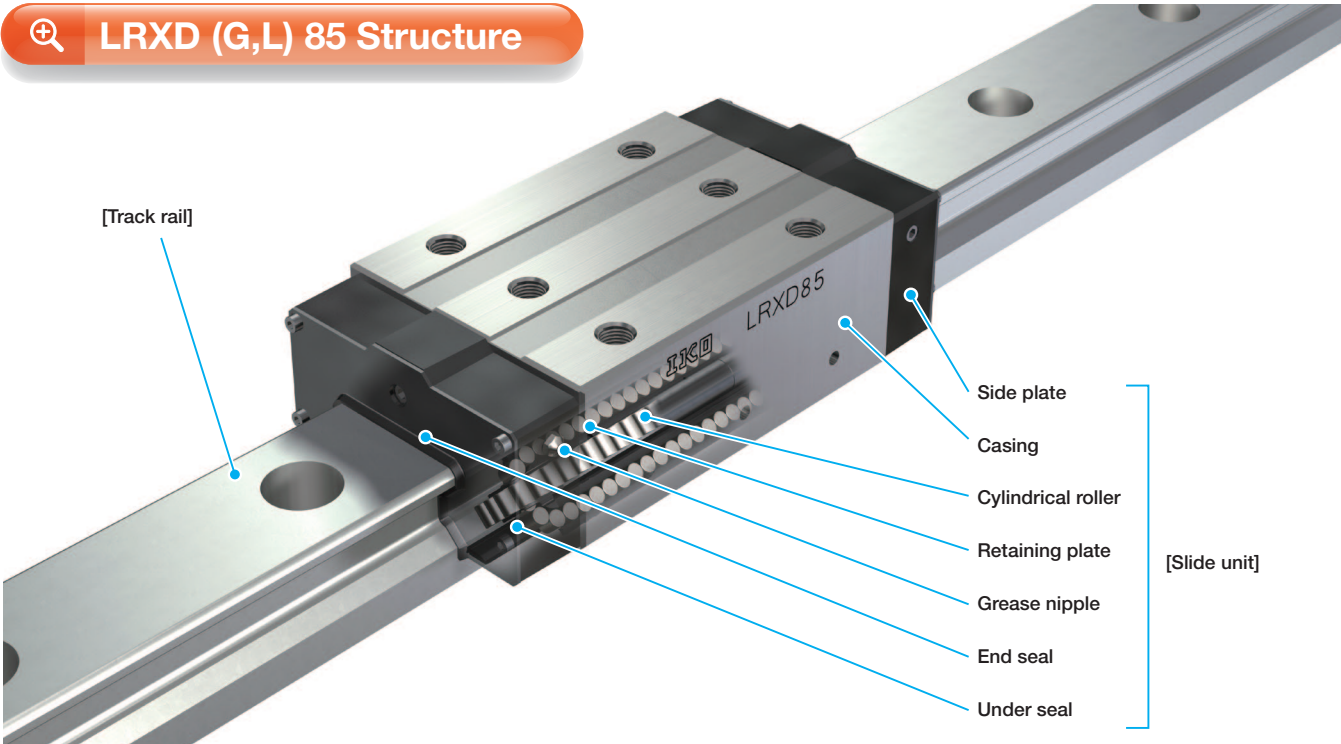
- ADVA addition for LT and SA drivers.
- MR-J4 addition for SA and NT drivers.

Linear Roller Way Super X
LRXD (G,L) Size 85



Patented

LRXD (G,L) 85 Structure



The roller type linear motion guide has the highest rigidity, load capacity, running accuracy and vibration damping properties of all guides. In the extra long unit that has the maximum slide unit length, load capacity and rigidity are improved and ultra high accuracy running performance is achieved.

Variation of LRX

Slide unit shape	Length of slide unit	Model	Size											
			10	12	15	20	25	30	35	45	55	65	85	100
	Short	LRXC	—	☆	☆	☆ ⁽¹⁾	☆	☆	☆	☆	☆	☆	—	—
	Standard	LRX	—	☆	☆	☆ ⁽¹⁾	☆	☆	☆	☆	☆	☆	○	—
	Long	LRXG	—	☆	☆	☆ ⁽¹⁾	☆	☆	☆	☆	☆	☆	○	○
	Extra long	LRXL	—	—	—	—	—	—	—	—	—	—	○	—
	Short	LRXDC	—	☆	☆	☆	☆	☆	☆	☆	☆	☆	—	—
	Standard	LRXD	—	☆	☆	☆	☆	☆	☆	☆	☆	☆	○	—
	Long	LRXDG	—	☆	☆	☆	☆	☆	☆	☆	☆	☆	○	—
	Extra long	LRXDL	—	—	—	—	—	—	—	—	—	—	○	—
	Short	LRXSC	—	—	☆	☆	☆	☆	—	—	—	—	—	—
	Standard	LRXS	—	—	☆	☆	☆	☆	—	—	—	—	—	—
	Long	LRXSG	—	—	☆	☆	☆	☆	—	—	—	—	—	—

Note⁽¹⁾ LRXC20, LRX20 and LRXG20 can only be mounted by the bolts from top. The models with the same dimensions allowing mounting from bottom are LRXHC20, LRXH20 and LRXHG20.

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

Features

- 1

Super high load capacity

The Linear Roller Way Super X has a large contact area with the way and more cylindrical rollers with excellent load capacity, which allow it to have a higher load rating.
- 2

Super high rigidity

The rigidity of a linear motion rolling guide is a key property that needs to be considered when incorporating it into a machine or device. The Linear Roller Way Super X utilizes cylindrical rollers that have smaller elastic deformation properties than steel balls, which equal higher rigidity.
- 3

Allows accurate positioning with excellent frictional characteristics

The Linear Roller Way Super X prevents skew of cylindrical rollers and achieves smooth motion by using a unique retaining method to accurately guide the cylindrical roller ends with the retaining plate. There is little frictional resistance under preload and loaded conditions, and cylindrical rollers have lower frictional characteristics compared to other linear motion rolling guides such as sliding guides or ball types, which provides better response when micro-feeding and accurate positioning.
- 4

High running accuracy

Optimal design based on analysis of re-circulation behavior of cylindrical roller circulation enables smooth and quiet motion. Because there are many cylindrical rollers that can share the applied load, they work together to minimize minor vibrations during operation. The extra-long unit is the best choice for applications that demand higher running accuracy.

Example of Identification Number

LRXD

L

85

C1

R1620

T₁

P

/D

1 Model	
LRXD	Block type mounting from top
2 Length of slide unit	
No Symbol	Standard
G	Long
L	Extra long
3 Size	
85	
4 Number of slide units (C○)	
Indicates the number of slide units assembled on one track rail.	
5 Length of track rail (R○)	
Indicate the length of track rail in mm. For standard and maximum lengths, see Table 1.	

6 Preload amount	
See Table 2 for details regarding preloading.	
7 Accuracy class	
See Table 3 for accuracy classes.	
8 Special specification	
/A	Butt-jointing track rails
/D	Opposite reference surfaces arrangement
/E	Specified rail mounting hole positions
/F	Caps for rail mounting holes
/HP	Half pitch mounting holes for track rail
/I	Inspection sheet
/J	Female threads for bellows
/MN	Without track rail mounting bolt
/Q	With C-Lube plate
/V	Double end seals
/Y	Specified grease
/Z	Scraper

Remarks: See the Linear Motion Rolling Guide Series General Catalog CAT-1560 for information regarding special specifications.

Standard and maximum lengths of track rail

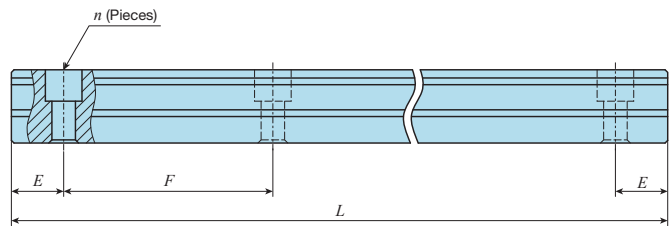


Table 1		Unit: mm
Item	Identification number	LRX85
Standard length $L(n)$		1 620 (9) 1 980 (11) 2 340 (13) 2 700 (15)
Pitch of mounting holes F		180
$E^{(1)}$		90
E standard dimension $^{(2)}$	or higher	23
	below	113
Maximum length		2 880

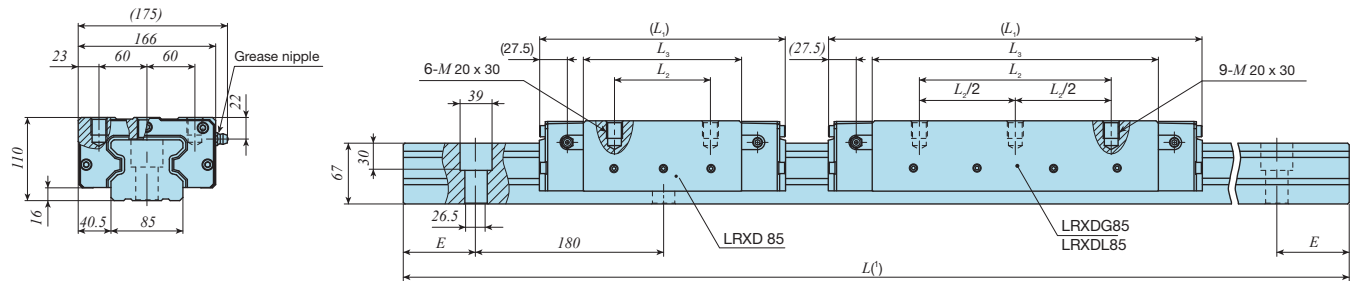
Note ⁽¹⁾ If not directed, E dimensions for both ends will be the same within the range of standard E dimensions. To change the dimensions, indicate the specified rail mounting hole positions $/E$ of special specification.
Note ⁽²⁾ Female threads for bellows mounting (supplemental code: $/J$) are not supported.

Preload amount

Item	Preload symbol	Preload amount N	Operating conditions
Standard	(No symbol)	0 ⁽¹⁾	· Light and precise motion
Light preload	T ₁	0.02 C_0	· Almost no vibration · Load is evenly balanced · Light and precise motion
Medium preload	T ₂	0.05 C_0	· Medium vibration · Medium overhang load applied
Heavy preload	T ₃	0.08 C_0	· Operates with vibration and/or impacts · Overhang load applied · Heavy cutting

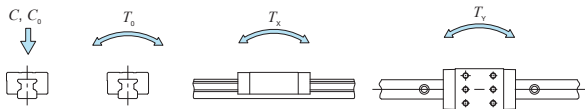
Note ⁽¹⁾ Indicates zero or minimal amount of preload.
Remark C_0 indicates the basic static load rating.

Dimensions



Identification number	Slide unit kg	Track rail kg/m	Dimension of slide unit mm			Appended mounting bolt for track rail ⁽²⁾ Bolt size x ℓ	Basic dynamic load rating ⁽³⁾ C N	Basic static load rating ⁽³⁾ C_0 N	Static moment rating ⁽³⁾		
			L_1	L_2	L_3				T_0 N·m	T_X N·m	T_Y N·m
LRXD 85	19.9	36.7	323	140	232	M24 x 70	440 000	753 000	38 900	29 500 163 000	29 500 163 000
LRXDG 85	25.5		395	200	304		542 000	985 000	50 800	50 000 257 000	50 000 257 000
LRXDL 85	34.1		494	280	403		674 000	1 300 000	67 300	87 000 422 000	87 000 422 000

Note ⁽¹⁾ For track rail lengths, see Table 1.
Note ⁽²⁾ JIS B 1176-equivalent hexagon socket head bolts.
Note ⁽³⁾ Basic dynamic load rating (C), basic static load rating (C_0), static moment rating (T_0 , T_X , T_Y) direction values are shown in the figure to the right. The upper values of T_X and T_Y are for one slide unit and the lower values are for two slide units in close contact.
Remarks: 1 The grease nipple is JIS type 2.
2 The grease nipple mounting screws are located in 3 places each on the left and right side panels.



Accuracy class, tolerances, and allowable values

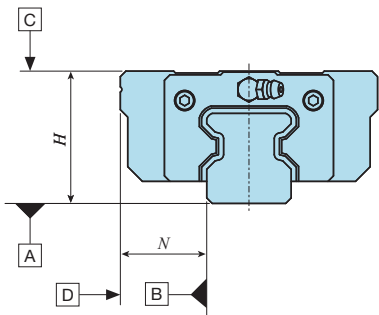
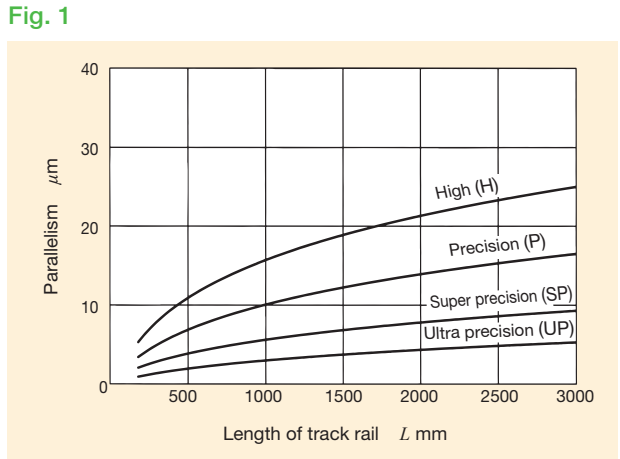


Table 3		Unit: mm			
Item	Class (Classification symbol)	High (H)	Precision (P)	Super precision (SP)	Ultra precision (UP)
H Dimension tolerance		±0.040	±0.020	±0.010	±0.008
N Dimension tolerance		±0.050	±0.025	±0.015	±0.010
H Dimension variation ⁽¹⁾		0.015	0.007	0.005	0.003
N Dimension variation ⁽¹⁾		0.020	0.010	0.007	0.003
Parallelism of the slide unit C surface to A surface during operation		See Fig. 1.			
Parallelism of the slide unit D surface to B surface during operation		See Fig. 1.			

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

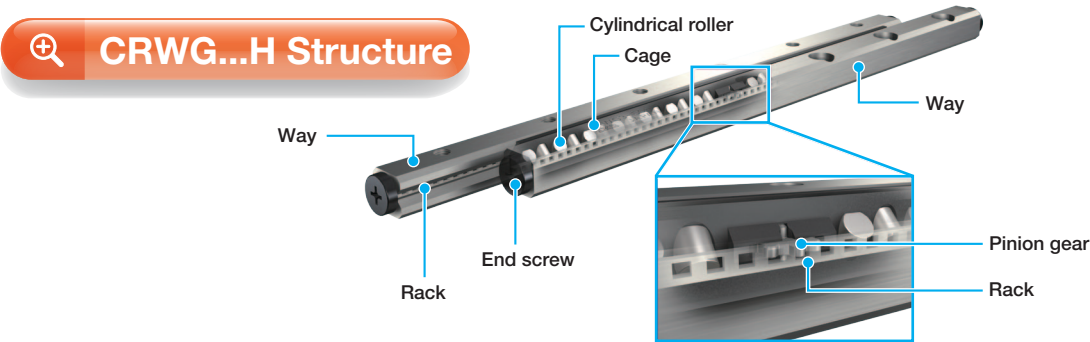
Parallelism in operation



Patented


Integrated Anti-Creep Cage Crossed Roller Way H

CRWG...H Size 1



The CRWG...H series linear motion rolling guides incorporate a roller cage structure between two ways whose two V-shaped surfaces are used as track grooves. The integrated rack and pinion structure prevents cage creep, is capable of handling load received from any direction, and provides highly accurate and smooth linear motion. By improving the raceway specifications, the load rating has been significantly improved when compared to conventional types.

Variation of CRWG...H

Shape	Model	Size	Way length mm								
	CRWG...H	<div>New</div> 1	20	30	40	50	60	70	80	—	—
		2	30	45	60	75	90	105	120	135	150
		3	50	75	100	125	150	175	200	225	250
		4	80	120	160	200	240	280	320	—	—

Example of Identification Number

CRWG 1 - 50 H SP

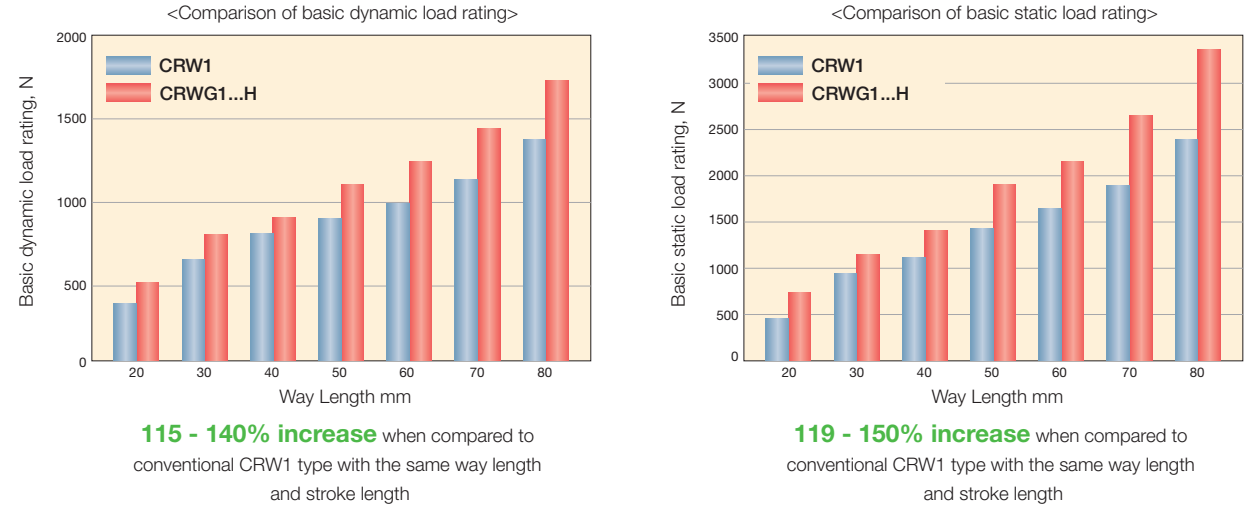
1 2 3 1 4

1 Model	2 Size	3 Way length	4 Accuracy class	
CRWG...H	1	20, 30, 40, 50, 60, 70, 80	Standard	No Symbol
			Super precision	SP

Features

1 Improved load capacity and rigidity of the machine or device

By improving the raceway specifications, the load rating has been significantly improved when compared to the conventional CRW1 type with the same way length and stroke length.



2 Solves cage creep issue

IKO's unique rack & pinion structure integration completely solves cage creep issues.

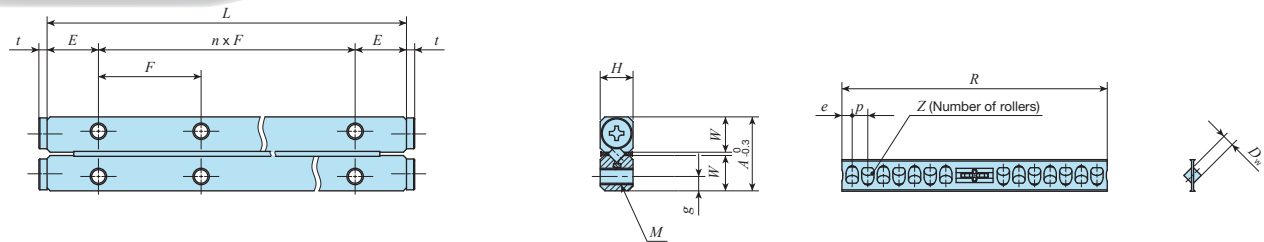
- Vertical axis
This series is reliable for applications such as a vertical axis where conventional CRW1 types may have the possibility of cage creep.
- High-speed and high-tact operation
No need to worry about cage creep even when increasing motion speed.
- Energy saving operation supported
No cage creep remediation is necessary even after long term operation.

3 Smooth and extremely accurate operation

The orthogonal array of ultra-precision rollers with precisely controlled length and high-precision track surface delivers a non-circulation linear motion rolling guide device with smooth and extremely accurate operation.

- Improved running accuracy
The non-circulation type linear motion rolling guides have no inherent minor running error, and allows them to achieve extremely high running accuracy.
- Suitable for micro-feeding
Improvement of positioning accuracy and superior following capability of micro-feeding commands can be expected because of the linear motion without stick-slip and extremely small frictional resistance.

Dimensions



Identification number	Mass (Ref.)		Boundary dimensions mm														Maximum stroke length mm	Basic dynamic load rating C ⁽⁴⁾ N	Basic static load rating C ₀ ⁽⁴⁾ N	Allowable load F ⁽⁴⁾ N
	Way (1)	Roller cage (2)	Appearance				Roller cage				Mounting method (3)									
			A	H	L (nxF)	E	D _w	R	Z	p	e	W	g	M	t					
CRWG1-20H	2.05	0.16	8.5	4	20 (1 x 10)	5	1.5	16.5	6	2	1.25	3.9	1.7	M1.6	0.7	3	525	717	239	
CRWG1-30H	3.07	0.25			30 (2 x 10)			24.5	10							7	782	1 200	398	
CRWG1-40H	4.10	0.30			40 (3 x 10)			28.5	12							19	901	1 430	478	
CRWG1-50H	5.13	0.39			50 (4 x 10)			36.5	16							23	1 130	1 910	638	
CRWG1-60H	6.15	0.44			60 (5 x 10)			40.5	18							35	1 230	2 150	717	
CRWG1-70H	7.18	0.53			70 (6 x 10)			48.5	22							39	1 440	2 630	877	
CRWG1-80H	8.21	0.67			80 (7 x 10)			61.5	28							35	1 740	3 350	1 120	

Note (1) The value indicates the mass of 1 way.
(2) The value indicates the mass of 1 roller cage.
(3) Mounting dimensions differ from CRW1.
(4) This is the value when a combination of four ways and two roller cages is used in 1 parallel arrangement.

1 N ≈ 0.102 kgf

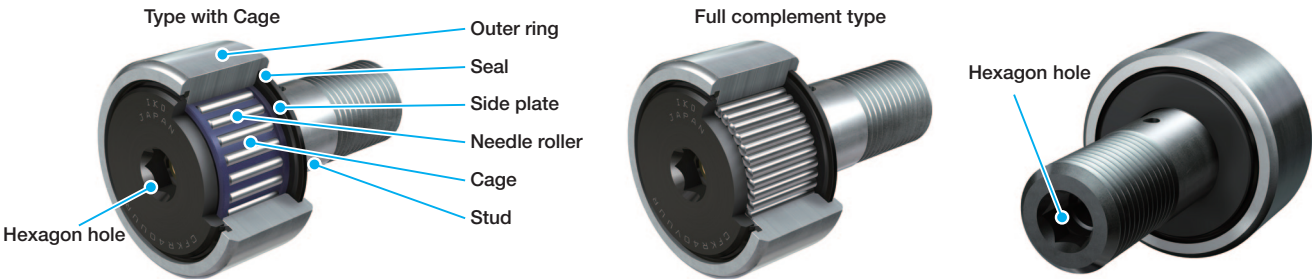
Patented

Double Hex Hole Cam Followers
CFKR

Newly released Cam Follower with Hex Hole in both ends of the stud!




CFKR Structure



Cam Followers have stud bearings with needle rollers incorporated in thick outer rings. These bearings are designed for the outer ring to rotate, with small friction coefficients and excellent rotation performance. Double Hex Hole Cam Followers have hexagon sockets on both ends that allow them to be used in unlimited mounting positions.

Variation of CFKR

Bearing model	Roller guide method	Outer ring outer diameter surface shape	Seal structure	Identification number	Size (Outer ring outer diameter)											
					30	32	35	40	47	52	62	72	80	85	90	
Double Hex Hole Cam Followers	With cage	Crowned outer ring	Shield type	CFKR...R		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
			Sealed type	CFKR...UUR	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Cylindrical outer ring	Shield type	CFKR	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Sealed type	CFKR...UU	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Full complement	Crowned outer ring	Shield type	CFKR...VR	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Sealed type	CFKR...VUUR	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		Cylindrical outer ring	Shield type	CFKR...V	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Sealed type	CFKR...VUU	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Features

Cam Followers with Hex Hole in both ends of the stud

The studs of both ends have hexagonal sockets that allow for easy mounting from either side using a hexagon wrench.

Example of Identification Number

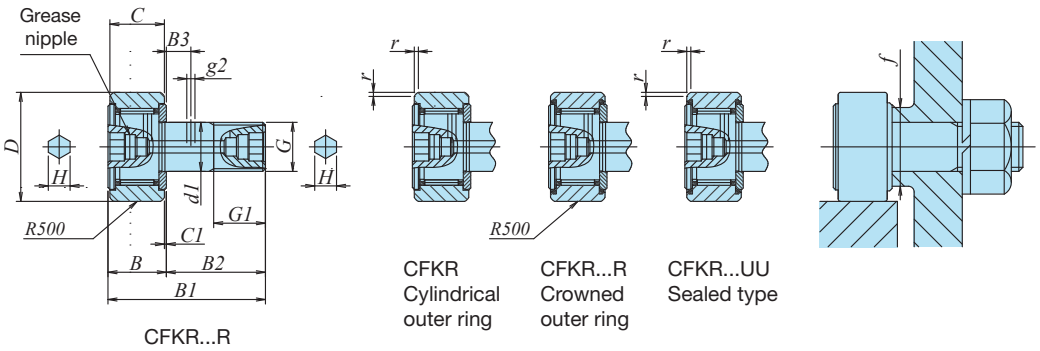
CFKR 30 V UU R

1 2 3 4 5

1 Model	CFKR	Double Hex Hole Cam Followers
2 Dimensions	The size indicates the outer diameter of the outer ring. (Unit: mm)	
3 Roller guide method	No Symbol	With cage
	V	Full complement

4 Seal structure	No Symbol	Shield type
	UU	Sealed type
5 Outer ring outer diameter surface shape	No Symbol	Cylindrical outer ring
	R	Crowned outer ring

Dimensions



With cage

Identification number				Mass (Ref.) g	Boundary dimensions mm															Mounting dimensions f Min. mm	Maximum tightening torque N·m	Basic dynamic load rating C N	Basic static load rating Co N	Maximum allowable static load N
Shield type		Sealed type			D	C	dI	G	GI	B max	BI max	B2	B3	CI	g2	H	rs mm (°)							
Crowned outer ring	Cylindrical outer ring	Crowned outer ring	Cylindrical outer ring																					
CFKR30R	CFKR30	CFKR30UUR	CFKR30UU	94	30	14	12	M12X1.5	13	15.2	40.2	25	6	0.6	3	6	0.6	21	21.9	7 910	9 790	9 790		
CFKR32R	CFKR32	CFKR32UUR	CFKR32UU	104	32																			
CFKR35R	CFKR35	CFKR35UUR	CFKR35UU	165	35	18	16	M16X1.5	17	19.6	52.1	32.5	8	0.8	3	8	0.6	26	58.5	12 000	18 300	18 300		
CFKR40R	CFKR40	CFKR40UUR	CFKR40UU	250	40	20	18	M18X1.5	19	21.6	58.1	36.5	8	0.8	3	8	1	29	86.2	14 800	25 200	25 200		
CFKR47R	CFKR47	CFKR47UUR	CFKR47UU	378	47	24	20	M20X1.5	21	25.6	66.1	40.5	9	0.8	4	10	1	34	119	20 700	34 600	34 600		
CFKR52R	CFKR52	CFKR52UUR	CFKR52UU	453	52																			
CFKR62R	CFKR62	CFKR62UUR	CFKR62UU	795	62	29	24	M24X1.5	25	30.6	80.1	49.5	11	0.8	4	14	1	40	215	30 500	52 600	52 000		
CFKR72R	CFKR72	CFKR72UUR	CFKR72UU	1 120	72																			
CFKR80R	CFKR80	CFKR80UUR	CFKR80UU	1 860	80																			
CFKR85R	CFKR85	CFKR85UUR	CFKR85UU	2 020	85	35	30	M30X1.5	32	37	100	63	15	1	4	14	1	49	438	45 400	85 100	85 100		
CFKR90R	CFKR90	CFKR90UUR	CFKR90UU	2 210	90																			

Note (°) Minimum allowable value of chamfer dimension r. 1 N = 0.102 kgf

Full complement

Identification number				Mass (Ref.)	Boundary dimensions mm														Mounting dimensions	Maximum tightening torque	Basic dynamic load rating	Basic static load rating	Maximum allowable static load
Shield type		Crowned outer ring	Cylindrical outer ring	Sealed type		D	C	d1	G	G1	B max	B1 max	B2	B3	C1	g2	H	r _{min} (°)	f Min. mm	N·m	C N	Co N	N
Crowned outer ring	Cylindrical outer ring			Crowned outer ring	Cylindrical outer ring																		
CFKR30VR	CFKR30V	CFKR30VUUR	CFKR30VUU	96	30	14	12	M12X1.5	13	15.2	40.2	25	6	0.6	3	6	0.6	21	21.9	13 500	19 700	13 200	
CFKR32VR	CFKR32V	CFKR32VUUR	CFKR32VUU	106	32																		
CFKR35VR	CFKR35V	CFKR35VUUR	CFKR35VUU	168	35	18	16	M16X1.5	17	19.6	52.1	32.5	8	0.8	3	8	0.6	26	58.5	20 700	37 600	23 200	
CFKR40VR	CFKR40V	CFKR40VUUR	CFKR40VUU	253	40	20	18	M18X1.5	19	21.6	58.1	36.5	8	0.8	3	8	1	29	86.2	25 300	51 300	31 100	
CFKR47VR	CFKR47V	CFKR47VUUR	CFKR47VUU	383	47	24	20	M20X1.5	21	25.6	66.1	40.5	9	0.8	4	10	1	34	119	33 200	64 500	37 500	
CFKR52VR	CFKR52V	CFKR52VUUR	CFKR52VUU	458	52																		
CFKR62VR	CFKR62V	CFKR62VUUR	CFKR62VUU	800	62	29	24	M24X1.5	25	30.6	80.1	49.5	11	0.8	4	14	1	40	215	46 600	92 000	52 000	
CFKR72VR	CFKR72V	CFKR72VUUR	CFKR72VUU	1 120	72																		
CFKR80VR	CFKR80V	CFKR80VUUR	CFKR80VUU	1 860	80																		
CFKR85VR	CFKR85V	CFKR85VUUR	CFKR85VUU	2 020	85	35	30	M30X1.5	32	37	100	63	15	1	4	14	1	49	438	67 700	144 000	85 900	
CFKR90VR	CFKR90V	CFKR90VUUR	CFKR90VUU	2 210	90																		

Minimum allowable value of chamfer dimension r. 1 N = 0.102 kgf

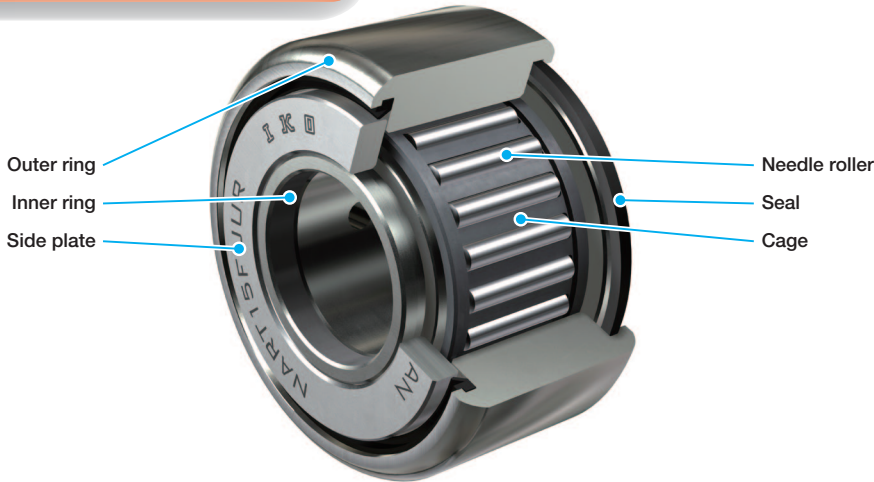
Stainless Steel Roller Followers

NART...F

Roller Followers are now available in stainless steel



NART...F (UU) R Structure




Roller Followers are bearings designed for outer ring rotation, in which needle rollers are incorporated in a thick walled outer ring. The linear motion portions of various Cam Follower bearings and transport devices are widely used as guide rollers. Stainless steel Roller Followers have excellent resistant to corrosion and are suited for applications where oil should be avoided, water spatters, or in a cleanroom.

Features

Made of Highly Durable Stainless Steel

Made of highly corrosion-resistant stainless steel, suitable for applications where rust prevention oil is not preferred, such as in cleanroom environments.

Variation of NART...F (UU) R

Bearing model	Outer ring outer diameter surface shape	Type of material	Seal structure	Identification number	Size															
					5	6	8	10	12	15	17	20	25	30	35	40	45	50		
Non-Separable Roller Followers	Crowned outer ring	High carbon steel	Shield type	NART...R	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
			Sealed type	NART...UUR	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
		Stainless steel	Shield type	NART...FR		○	○	○	○	○	○	○	○	○	○	—	—	—	—	
			Sealed type	NART...FUUR		○	○	○	○	○	○	○	○	○	○	—	—	—	—	

Remarks: The roller guide types are available only with cage.

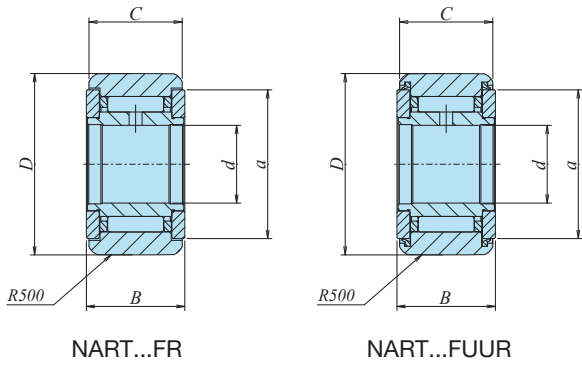
Example of Identification Number

NART 12 F UU R

1 Model	NART	Non-separable Roller Followers
2 Dimensions	The size indicates the bore diameter of the inner ring. (Unit: mm)	
3 Type of material	F	Stainless steel made

4 Seal structure	No Symbol	Shield type
UU		Sealed type
5 Outer ring outer diameter surface shape	R	Crowned outer ring

Dimensions



Identification number		Mass (Ref.)	Boundary dimensions mm					Basic dynamic load rating	Basic static load rating	Maximum allowable static load
Shield type	Sealed type	g	d	D	B	C	a	C N	C 0 N	N
NART 5FR	NART 5FUUR	13	5	16	12	11	12	2 930	2 920	2 920
NART 6FR	NART 6FUUR	19	6	19	12	11	14	3 400	3 790	3 790
NART 8FR	NART 8FUUR	39	8	24	15	14	17.5	4 340	5 510	5 510
NART10FR	NART10FUUR	61	10	30	15	14	22.5	6 330	7 830	7 830
NART12FR	NART12FUUR	67	12	32	15	14	25.5	6 510	8 400	8 400
NART15FR	NART15FUUR	99	15	35	19	18	27.5	9 620	14 700	14 700
NART17FR	NART17FUUR	146	17	40	21	20	31	11 800	20 200	20 200
NART20FR	NART20FUUR	241	20	47	25	24	36.5	16 500	27 700	27 700
NART25FR	NART25FUUR	269	25	52	25	24	43	19 800	28 300	28 300
NART30FR	NART30FUUR	447	30	62	29	28	50	26 900	41 200	41 200

Remarks: 1 The inner ring has an oil hole.
2 Grease is pre-packed for the sealed type. The shield type is not provided with prepacked grease. Perform proper lubrication before use.

1 N = 0.102 kgf

IKO C-Lube Maintenance Free Series

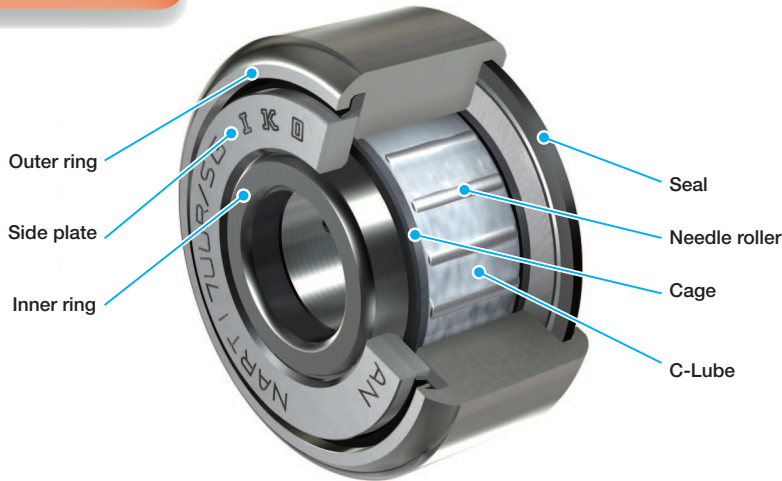


C-Lube Roller Followers
NART.../SG

New maintenance-free Roller Followers are now available



NART.../SG Structure



Roller Followers are bearings designed for outer ring rotation, in which needle rollers are incorporated in a thick walled outer ring. The linear motion portions of various Cam Follower bearings and transport devices are widely used as guide rollers. **IKO**'s unique thermoset solid lubricant, known as C-Lube, is prepacked into the C-Lube Roller Followers making them a maintenance-free product.

Variation of NART.../SG

Bearing model	Outer ring outer diameter surface shape	Seal structure	Identification number	Size							
				5	6	8	10	12	15	17	20
C-Lube Roller Followers	Crowned outer ring	Sealed type	NART...UUR/SG	○	○	○	○	○	○	○	○

Features

1 Reducing usage of lubrication oil

Periodic regreasing is not required, meaning the volume of lubrication oil required is reduced. Regreasing operations are consequently also eliminated.

2 Ideal for applications where oil should be avoided

Lubrication oil is retained within the bearing without oil leakage, so prevents the operating environment from being polluted with excess oil.

3 Cost reduction of oiling devices

Oiling devices are not required, meaning that installation and upkeep costs are not incurred. Furthermore, space otherwise occupied by oiling devices can be actively utilized.

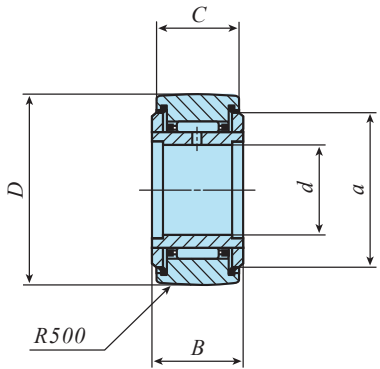
Example of Identification Number

NART 12 UU R /SG

1 Model
NART.../SG C-Lube Roller Followers
2 Dimensions
The size indicates the bore diameter of the inner ring. (Unit: mm)

3 Seal structure
UU Sealed type
4 Outer ring outer diameter surface shape
R Crowned outer ring

Dimensions



Shaft diameter mm	Identification number	Mass (Ref.) g	Boundary dimensions mm					Basic dynamic load rating C N	Basic static load rating C ₀ N	Maximum allowable static load N
			d	D	B	C	a			
5	NART 5UUR/SG	14.5	5	16	12	11	12	3 650	3 680	3 680
6	NART 6UUR/SG	20.5	6	19	12	11	14	4 250	4 740	4 740
8	NART 8UUR/SG	41.5	8	24	15	14	17.5	5 640	5 900	5 900
10	NART10UUR/SG	64.5	10	30	15	14	23.5	8 030	7 540	7 540
12	NART12UUR/SG	71	12	32	15	14	25.5	8 580	8 470	8 470
15	NART15UUR/SG	102	15	35	19	18	29	13 700	16 400	16 400
17	NART17UUR/SG	149	17	40	21	20	32.5	17 600	21 000	21 000
20	NART20UUR/SG	250	20	47	25	24	38	23 000	30 700	30 700

Remarks: The thermoset solid-type lubricant C-Lube fills the internal space, making regreasing impossible.

1 N ≈ 0.102 kgf

[Precautions for Use]
· Do not wash with organic solvent and/or white kerosene, which have the ability of removing fat.
· The operating temperature range is -15 to +80°C. For continuous operation, the recommended operating temperature is +60°C or less.
· To ensure normal rotation of the bearing, apply a load of 1% or more of the basic dynamic load rating at use.
· The allowable rotational speed dn value should, as a guide, be 8000 or lower.
dn Value = (Bore Diameter [mm] x Rotational Speed [rpm])

Linear Motor Table LT and Alignment Stage SA Driver

ADVA

Alignment Stage SA, Nano Linear NT Driver

MR-J4

Newly configurable
high-performance driver for
Linear Motor tables!



Driver Compatibility Table

Model		ADVA				MR-J4
Power supply specification		Single-phase / three-phase AC 200 - 230 V		Single-phase AC 100 - 115 V		Single-phase / three-phase AC 200 - 240 V
Command type		Pulse train command	EtherCAT (!)	Pulse train command	EtherCAT (!)	SSCNET III/H (!)
Linear Motor Table LT series	LT100CEG	○	○	—	—	Customized support
	LT150CEG	○	○	—	—	Customized support
	LT130LDG	○	○	—	—	Customized support
	LT170LDG	○	○	—	—	Customized support
	LT170LDV	○	○	—	—	Customized support
	LT170H	○	○	—	—	Customized support
Alignment Stage SA series	SA65DE/X	○	○	○	○	○
	SA65DE/S	○	○	○	○	○
	SA120DE/X	○	○	○	○	○
	SA120DE/S	○	○	○	○	○
	SA200DE/S	○	○	○	○	○
Nano Linear NT series	NT55V	○	○	○	○	○
	NT80V	○	○	○	○	○
	NT80XZ	○	○	○	○	—
	NT90XZH	○	○	○	○	—

Note (!) Motion Network Command Type

Features of ADVA

- In addition to the conventional pulse train command input, high speed motion network EtherCAT is also supported.
- The high controllability shortens the settling time, realizing further improvement of productivity.
- Machine diagnosis, startup and adjustment of linear motor can be easily performed thanks to parameter settings, monitor display, operation trace and automatic tuning function of the setup software.

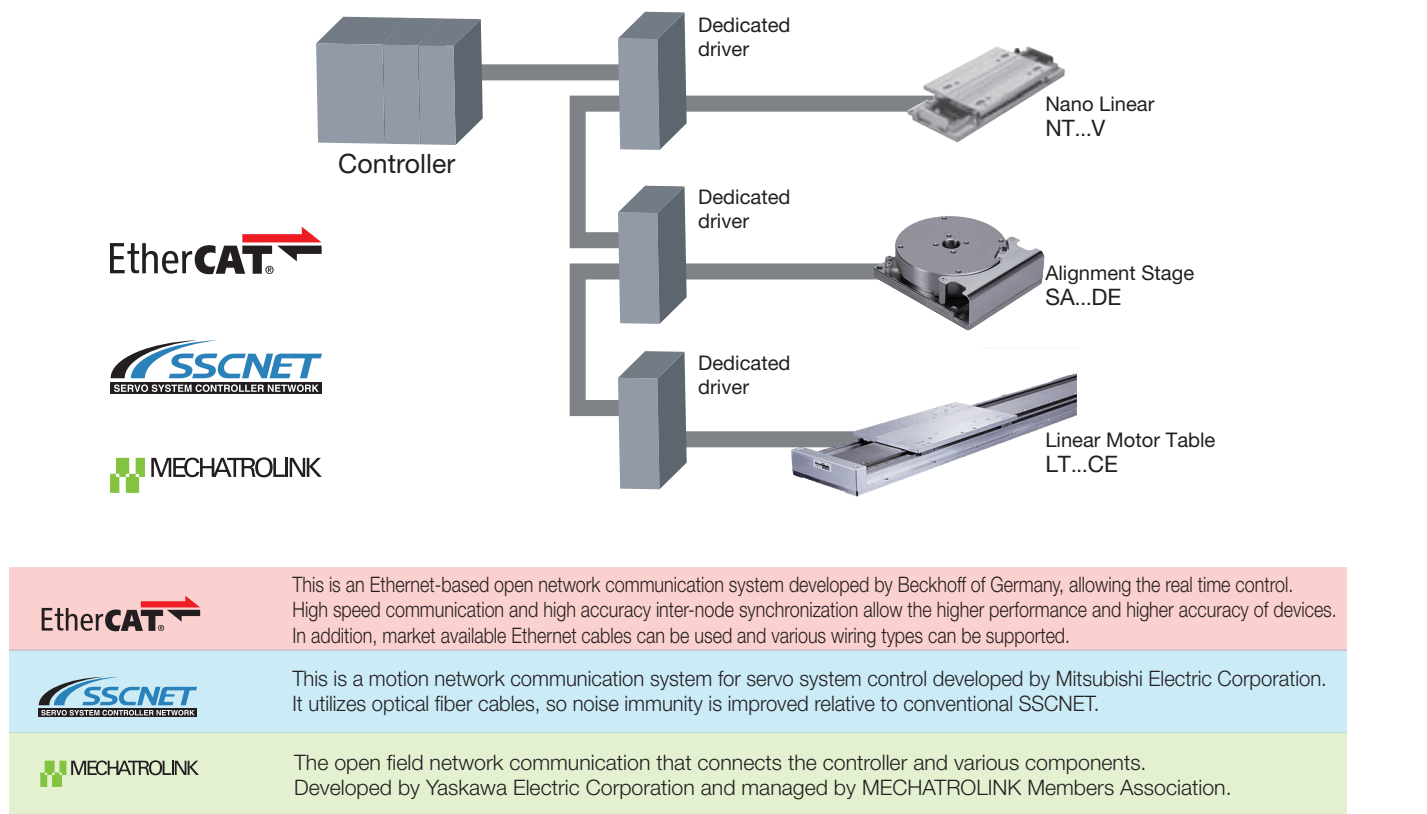
Features of MR-J4

- Compatible with SSCNETIII/H (high-speed serial bus). The optical communication system allows for higher speed and accuracy.
- Simply turn on the one-touch tuning functionality to complete servo gain calibration of machine vibration suppression, advanced vibration control and robust filters. With easy driving of cutting-edge vibration control functionality, the maximum possible machine performance can be achieved.
- Machine diagnosis, startup and adjustment of linear motor can be easily performed via parameter settings, monitor display and machine analyzer of the setup software (MR Configurator2).

Motion Network Compatible

IKO linear motor products have a range of dedicated drivers available for compatibility with EtherCAT, SSCNETIII/H, and MECHATROLINK motion networks.

Motion network allows higher performance and higher accuracy of devices free from pulse frequency constraints relative to pulse train command, noise effects in analog command (voltage command), voltage drop due to cable length and effects of temperature drifting. Reduction of wiring can also be achieved, so synchronization system with more than one table can easily be established.



Linear Motor Table LT

System configuration

New ADVA settings released for Linear Motor Table LT drivers. For ADVA command type, there are 2 types of specifications: pulse train command spec and high speed network EtherCAT spec.

ADVA Identification Number

ADVA - 01NL EC / LT100CE

1 Model234

2 Power supply voltage / maximum applicable motor capacity

01NL	Single-phase / three-phase AC 200 V, 100W (Applicable to LT...CE, LT...LD)
08NL	Single-phase / three-phase AC 200 V, 750W (Applicable to LT170H)

3 Command type

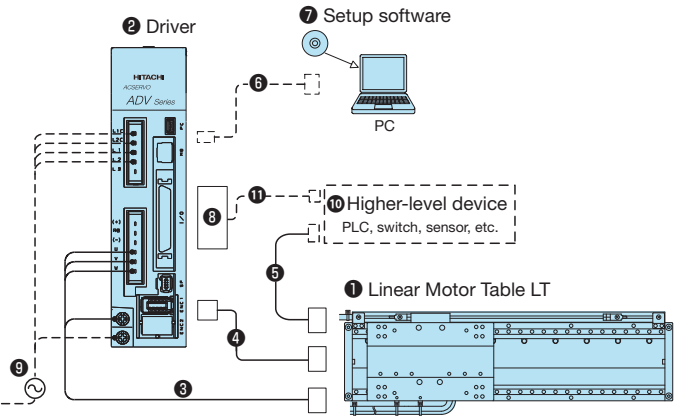
No Symbol	Pulse train command
EC	EtherCAT

4 Applicable linear motor table models

LT100CE	LT100CE
LT150CE	LT150CE
LT130LDG	LT130LDG
LT170LDG	LT170LDG (high thrust specification)
LT170LDV	LT170LDV (high speed specification)
LT170H	LT170H

System Configuration Example for LT with ADVA Driver

This figure illustrates a pulse train command type configuration example.



No.	Name	Identification number
3	Motor extension cord	TAE20V7-AM□□ (Applicable to LT...CE, LT...LD)
		TAE20V9-AM□□ (Applicable to LT...H)
4	Encoder extension cord	TAE20V8-EC□□ (Applicable to LT...CE, LT...LD)
		TAE20W0-EC□□ (Applicable to LT...H)
5	Sensor extension cord	TAE10V8-LC□□
6	PC connection cable	USB miniB cable This must be prepared by customer.
7	Setup software	ProDriveNext Please download from the official website of Hitachi Industrial Equipment Systems Co., Ltd.
8	I/O connector	TAE20R5-CN (1)
9	Power cord	This must be prepared by customer.
10	Higher-level device	
11	I/O connector connection cable	

Note (1) I/O connector TAE20R5-CN is a combined product of 10150-3000PE (connector) and 10350-52F0-008 (cover) from Sumitomo 3M Limited.
Remarks: The lengths of motor extension cord, encoder extension cord, and sensor extension cord are specified in the □□ located at the end of the identification number for length of 3 to 10m in units of 1m.
The cord length is specified in two digits even when the length is less than 10 m. (Example for 3 m cord: TAE20V7-AM03)

Nano Linear NT

System configuration

New MR-J4 settings released for Nano Linear NT drivers. Only the high speed network SSCNETIII/H specification is available for MR-J4 command types.

MR-J4 Identification Number

MR-J4 - 10B-RJ / NT55V 25

1 Model23

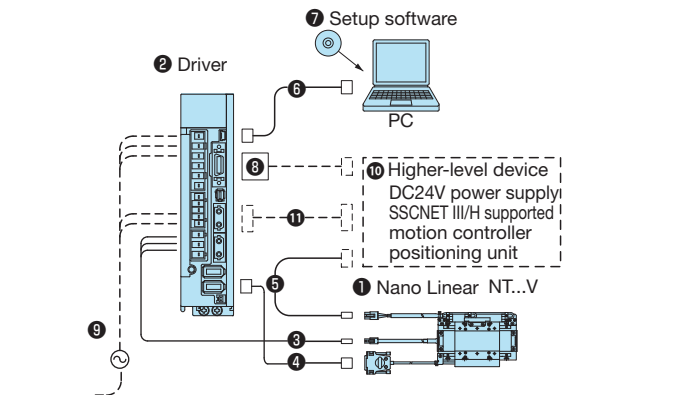
2 Power supply voltage / rated output / command type

10B-RJ	Single-phase / three-phase AC 200 - 240 V, 100 W, SSCNETIII/H
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3 Applicable nano linear models

NT55V 25
NT55V 65
NT80V 25
NT80V 65
NT80V 120

System Configuration Example for NT55V, 80V with MR-J4 Driver



No.	Name	Identification number
3	Motor extension cord (3 m) (1)	TAE20V3-AM03
4	Encoder extension cord (2 m) (1)	TAE20V6-EC02
5	Sensor extension cord (3 m) (1)	TAE10V8-LC03
6	PC connection cable (3 m)	MR-J3USBCBL3M
7	Setup software	SW1DNC-MRC2-J
8	I/O connector	MR-CCN1 (2)
9	Power cord	This must be prepared by customer.
10	Higher-level device (2)	
11	Connection cable for SSCNET III/H	

Note (1) For special cord lengths please contact I&D.
Note (2) I/O connector MR-CCN1 is a combined product of 10120-3000PE (connector) and 10320-52F0-008 (cover) from Sumitomo 3M Limited.
Note (3) The higher-level devices are a motion controller, positioning unit and DC24V power supply supporting SSCNET III/H from Mitsubishi Electric Corporation.

Alignment Stage SA

System configuration

2 new types of settings, namely ADVA and MR-J4, are available for Alignment Stage SA drivers. The system configuration differs depending on the driver used. For ADVA there are two types of specification available, pulse train command specification and high speed network EtherCAT specification. For MR-J4, only the high speed network SSCNETIII/H specification is available.

ADVA Identification Number

ADVA - 01NL EC / SA65DE-S

1 Model234

2 Power supply voltage

01NL	Single-phase / three-phase AC 200 - 230 V, 100W
R5ML	Single-phase AC 100 - 115 V, 50W

3 Command type

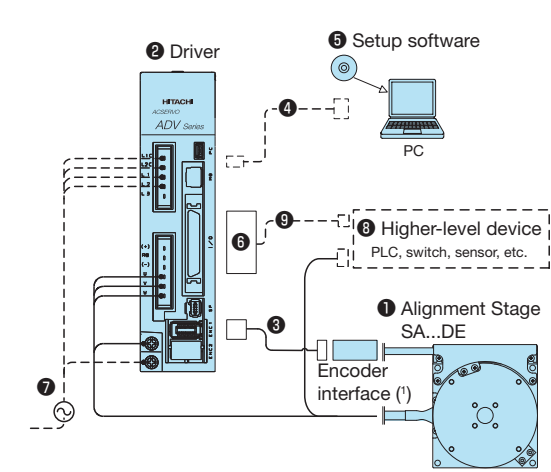
No Symbol	Pulse train command
EC	EtherCAT

4 Applicable alignment stage models

SA65DE-S	SA65DE/S
SA65DE-X	SA65DE/X
SA120DE-S	SA120DE/S
SA120DE-X	SA120DE/X
SA200DE-S	SA200DE/S

System Configuration Example for SA65DE, SA120DE with ADVA Driver

This figure illustrates a pulse train command type configuration example.



No.	Name	Identification number
3	Encoder extension cord (2 m) (2)	TAE20V4-EC02
4	PC connection cable	USB miniB cable This must be prepared by customer.
5	Setup software	ProDriveNext Please download from the official website of Hitachi Industrial Equipment Systems Co., Ltd.
6	I/O connector	TAE20R5-CN (3)
7	Power cord	This must be prepared by customer.
8	Higher-level device	
9	I/O connector connection cable	

Note (1) XY-axis of SA65DE is not provided with an encoder interface.
(2) For special cord lengths please contact I&D.
(3) I/O connector TAE20R5-CN is a combined product of 10150-3000PE (connector) and 10350-52F0-008 (cover) from Sumitomo 3M Limited.

MR-J4 Identification Number

MR-J4 - 10B-RJ / SA65DE-S

1 Model23

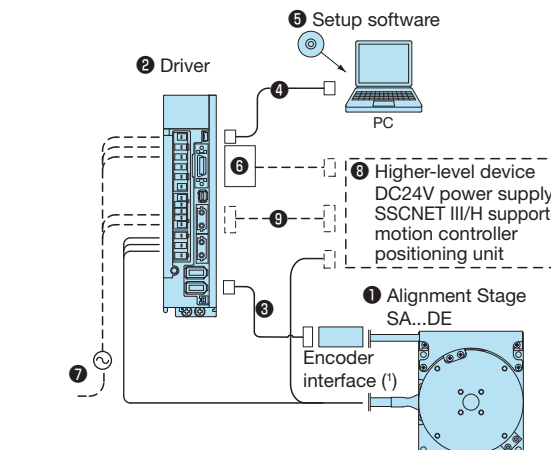
2 Power supply voltage / rated output / command type

10B-RJ	Single-phase / three-phase AC 200 - 240 V, 100 W, SSCNETIII/H
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3 Applicable alignment stage models

SA65DE-S	SA65DE/S
SA65DE-X	SA65DE/X
SA120DE-S	SA120DE/S
SA120DE-X	SA120DE/X
SA200DE-S	SA200DE/S

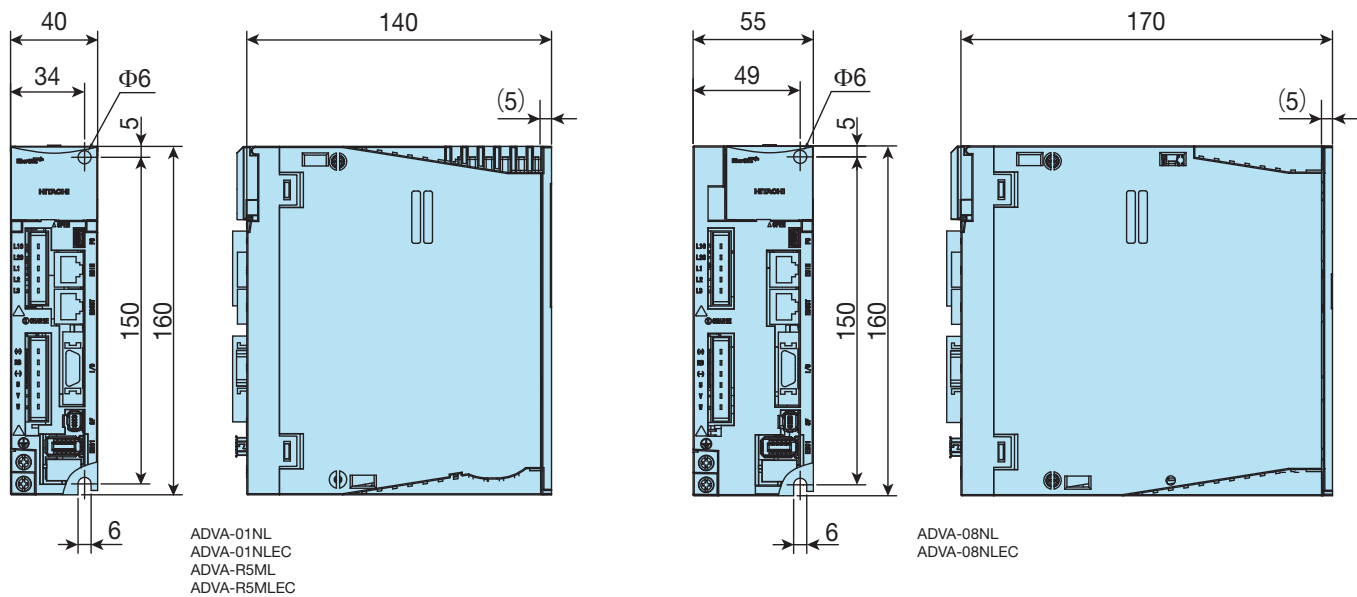
System Configuration Example for SA65DE, SA120DE with MR-J4 Driver



No.	Name	Identification number
3	Encoder extension cord (2 m) (2)	TAE20V6-EC02
4	PC connection cable (3 m)	MR-J3USBCBL3M
5	Setup software	SW1DNC-MRC2-J
6	I/O connector	MR-CCN1 (2)
7	Power cord	This must be prepared by customer.
8	Higher-level device (2)	
9	Connection cable for SSCNET III/H	

Note (1) XY-axis of SA65DE is not provided with an encoder interface.
(2) For special cord lengths please contact I&D.
(3) I/O connector MR-CCN1 is a combined product of 10120-3000PE (connector) and 10320-52F0-008 (cover) from Sumitomo 3M Limited.
(4) The higher-level devices are a motion controller, positioning unit and DC24V power supply supporting SSCNET III/H from Mitsubishi Electric Corporation.

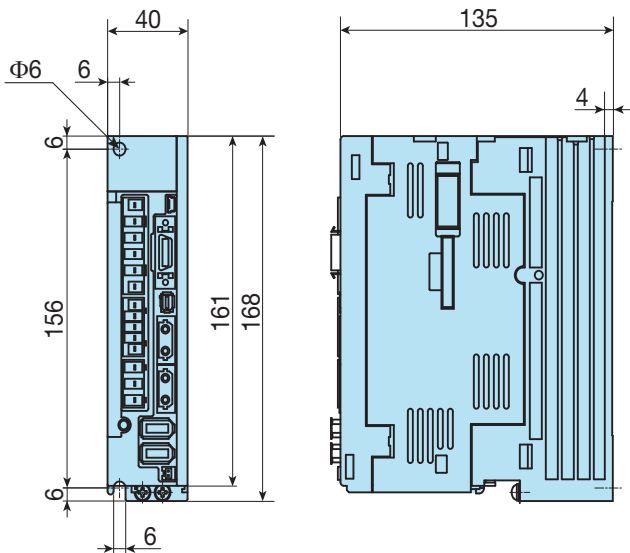
ADVA



* The front view interface diagram shows EtherCAT specification.

Item		Model	ADVA-01NL ADVA-01NLEC	ADVA-08NL ADVA-08NLEC	ADVA-R5ML ADVA-R5MLEC
Basic specification	Input power		Single-phase / three-phase AC 200 - 230 V 50 / 60 Hz		Single-phase AC 100 - 115 V 50 / 60 Hz
	Rated current / momentary current		1.2 Arms / 3.6 Arms	5.1 Arms / 15.3 Arms	1.2 Arms / 3.6 Arms
	Power plant capacity		0.3kVA	1.3kVA	0.3kVA
	Protective structure		Semi-enclosed structure IP20		
	Control mode		Position control / Speed control / Thrust force control		
I/O related functionality	Speed command		Analog input: 0 - ± 10 V / maximum speed (configurable gain) or EtherCAT		
	Thrust command		Analog input: 0 - ± 10 V / maximum thrust (configurable gain) or EtherCAT		
	Position command		Line driver signal: 20 Mpps (non-isolated input / 4-time multiplication) or EtherCAT Open collector signal: 2 Mpps (isolated input / 4-time multiplication)		
	Contact input/output		[Input] Intelligent terminal selects 10 input terminals (6 input terminals for EtherCAT specification) based on functionality parameters DC 12 / 24 V contact signal / open collector signal input (internal DC 24 V power supply) [Output] Intelligent terminal selects 6 output terminals (4 output terminals for EtherCAT specification) based on functionality parameters (Open collector signal output: sink output)		
Operating environment	Ambient temperature in operation / storage temperature		0 - 55°C / -10 - 70°C		
	Operating humidity		20 - 90% RH (condensation free)		
	Vibration resistance		5.9 m/s ² (0.6 G) 10 - 55 Hz		
	Service space		Altitude of 1000 m or less, indoor (free of corrosive gas and dust)		
Mass			0.7kg	1.2kg	0.7kg

MR-J4



Item		Model	MR-J4-10B-RJ
Basic specification	Output	Rated voltage	Three-phase AC 170 V
		Rated current	1.1A
	Main circuit power supply	Voltage / frequency	Single-phase / three-phase AC200 - 240V 50/60Hz
		Allowable power fluctuation	Single-phase / three-phase AC170 - 264V
		Allowable frequency fluctuation	Within $\pm 5\%$
	Control circuit power supply	Voltage / frequency	Single-phase AC200 - 240V 50/60Hz
		Allowable power fluctuation	Single-phase AC170 - 264V
		Allowable frequency fluctuation	Within $\pm 5\%$
		Power consumption	30W
	Power supply for interface		DC 24 V $\pm 10\%$ (required current capacity: 0.3 A (Including CN8 connector signals))
	Structure (Protection degree)		Natural air cooling and opening (IP20)
Input/Output function	Control method		Sine wave PWM control / current control method
	Machine terminal encoder interface		Mitsubishi high-speed serial signal / ABZ differential phase dynamic input signal
	Encoder output pulse	Supported (ABZ phase pulses)	
		Analog monitor	2ch
Internal functions	Communication functions		USB: PC connection (MR Configurator2 supported)
	Dynamic brake		Built-in
	Protective functions		Overcurrent interrupt, regeneration overvoltage interrupt, overloading interrupt (electric thermal), servomotor overheat protection, encoder error protection, regeneration error protection, undervoltage protection, momentary power failure protection, overspeed protection, excessive error protection, magnetic pole detection protection, linear servo control error protection
Operating environment	Ambient temperature		0 - 55°C (keep freeze free), Storage: -20 - 65°C (keep freeze free)
	Ambient humidity		90% RH or less (condensation free), Storage: 90% RH or less (condensation free)
	Atmosphere		Indoor (no exposure to direct sunlight), free from corrosive gas, flammable gas, oil mist and dust
	Altitude		Altitude 1000 m or less
	Vibration resistance		5.9 m/s or less, 10 Hz - 55 Hz (each X, Y, and Z direction)
Mass			0.8kg

IKO General Catalog Guide

If you would like to receive a hard copy general catalog for each product series, you can request it from the **IKO** website, or contact your nearest branch or sales office.

You can also download catalog PDF files from the **IKO** website.

Linear Motion Rolling Guide Series

The **IKO** Linear Motion Rolling Guide Series General Catalog comes in 2 editions, namely **BLUE** and **RED** depending on the model type.



BLUE

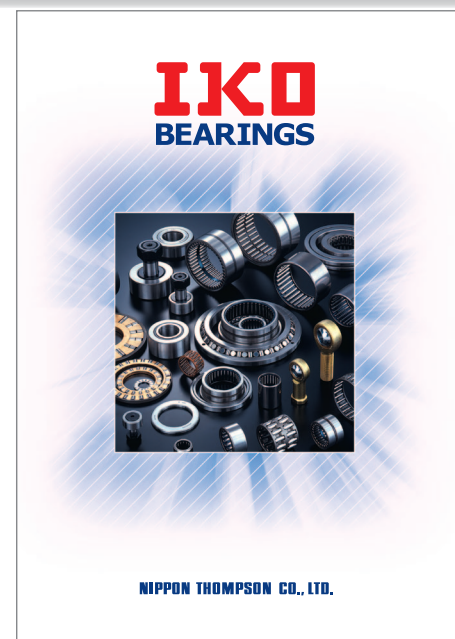
- Linear Way
- Linear Roller Way

RED

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



Needle Roller Bearing Series



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IKO Website Guide

The **IKO** website contains a vast range of products listed by model number that allows users to verify product information.

CAD data for products and Catalog PDF files are available for download.

You can also view the worldwide trade show/exhibition schedule and much more.



Product information

Products can be searched by product series names and by a bearing's directional motion. On each page, product features are detailed in a user friendly format.

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<CAD Data>

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<Product Catalog>

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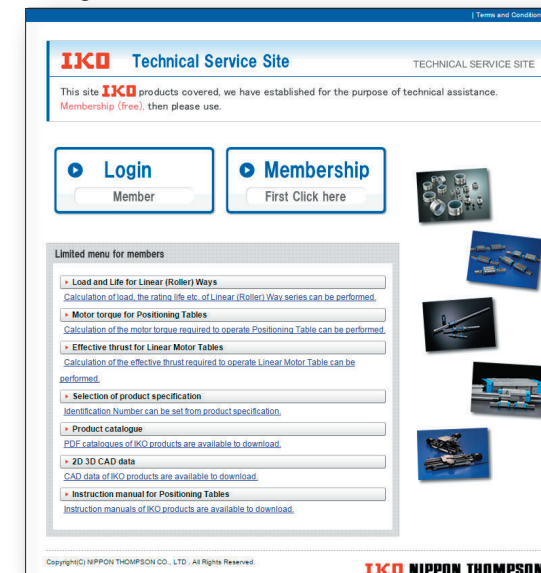
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The **IKO** Technical Service Site can be accessed from the **IKO** website. We offer various tools to help you make an appropriate Linear Way and Linear Roller Way selection. Please use them to aid with your selection. You can also use the site to download Instruction Manuals for the mechatro series.

● Login Screen



● Menu Screen

