IKO



Linear Motor Table

Absolute Linear Encoder Specifications

Structure

Absolute linear encoder head

C-Lube linear way

Moving coil

Stator magnet

Absolute linear encoder scale

Absolute linear encoder specifications maintain the compact size unique to the LT series and can be used as a replacement for the standard incremental linear encoder type as well.

Features of Absolute Linear Encoder Specifications

NO HOMING



Return to origin/magnetic pole position detection operation not required

Because absolute position information is read from the linear scale, origin detection operation and magnetic pole position detection upon restarting are not required.

HIGH RESOLUTION AND HIGH SPEED



High resolution and high-speed travel

Because high-speed serial communication is used for position measurement in response to specific requirements, high-speedtravel at high resolution is possible.

Improved noise reduction

Because position information is acquired as digital data through serial communication, noise is greatly reduced compared to that of incremental linear encoders.

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Manufacturing Supported Model Numbers/Compatible Drivers

Linear Motor Table LT absolute linear encoder specifications are individually ordered products. Please contact IKO for more information. The model numbers and compatible supported drivers are listed below.

Applicable model numbers	LT100CEG	LT130LDG	LT150CEG
	LT150CET	LT170LDG	LT170LDT

*For details on the Linear Motor Table LT itself, see the Mechatronics Series General Catalog

Linear encoder type	RSF Elektronik linear encoder model	Compatible driver	Resolution [µm]
	AK MC15M	Mitsubishi Electric Corporation J4 Series	0.05
NEW Absolute linear encoder	AK MC15Y	Yaskawa Electric Corporation Σ-7 Series	0.05
	AK MC15P	Panasonic Corporation A6L Series	0.05



Use Example for of Linear Motor Table LT

Handlers

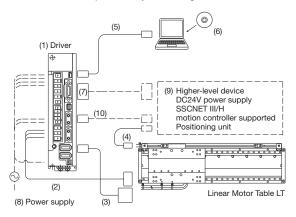
A device used to perform operation tests (performance evaluation and quality assurance) on semiconductor devices. Since the conveyor constantly operates at high speed and requires high positioning repeatability, the IKO Linear Motor Table LT is used because it provides high speed and high accuracy.

Linear Motor Table LT Nano Linear NT---V



System Configuration Example

▼ Below is an example of the system configuration when combined with Mitsubishi Electric Corporation MR-J4 series driver.



	Name	Identification number	Remarks
(1)	LT driver	MR-J4-10B special product	Dedicated driver for LT
(2)	Motor extension cord	TAE20V7-AM	Cord length: 3~10m
(3)	Encoder extension cord	TAE20X1-EC	Cord length: 3~10m
(4)	Sensor extension cord	TAE10V8-LC	Cord length: 3~10m
(5)	PC connection cord (3m)	MR-J3USBCBL3M	This must be prepared by customer
(6)	Setup software	SW1DNC-MRC2-J	MR Configurator 2 Medium is a CD (for Windows) Available with the model number at left
(7)	Connectors for input/ output connection	MR-CCN1 (in combination with the connector and cover at right)	3M Japan Limited 10120-3000PE (Connector) 10320-52F0-008 (Cover)
(8)	Power cord	This must be prepared by customer	
(9)	Higher-level device	This must be prepared by customer	
(10)	Connection cable for SSCNET III/H	This must be prepared by customer	

The lengths of motor extension cord, encoder extension cord, and sensor extension cord are specified in the the end of the model number for lengths of 3 ~ 10m in units of 1m.

The cord length is specified in two digits even when the length is less than 10m. (For 3m: TAE20V7-AM03)

The encoder extension cord and other components differ depending on the driver used. For the system configurations in combination with the Yaskawa Electric Corporation 5-7 Series or Panasonic Corporation A6L Series drivers, please contact IKO.

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