# IKO



## Linear Motor Table

**Series** 

Absolute Linear Encoder Specifications

**New Driver Expansion** 

## 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.

## 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-speed travel 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.

## NIPPON THOMPSON CO., LTD.

## 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.

anliachte needel numbere	LT100CEG	LT	130LDG	LT1	50CEG
pplicable model numbers	LT150CET	LT	LT170LDG LT1		70LDT
or details on the Linear Motor Ta	ble LT itself, see the Mecha	tronics Series General	Catalog.		
Linear encoder type	RSF Elektronik linear encoder mod	del	Compatible driver		Resolution [µm]
Absolute linear encoder	AK MC15		AD7 Series made by Hitachi Industrial Equipment Systems Co., Ltd.		0.05
	AK MC15M	Mitsubishi E	Mitsubishi Electric Corporation J4 Series		0.05
	AK MC15Y	Yaskawa El	Yaskawa Electric Corporation Σ-7 Series		0.05
	AK MC15P Panasonic Corporation A6I		L Series	0.05	
				SERVO SYSTEM	
AD7 made by Hitachi Industrial Equipment Systems Co., Ltd.	Mitsubishi Electric Corporation J4	Yaskawa Electric Corporation Σ-7	Panasonic Corporation A6	<b>– R</b> Real	TEX

Use Example for 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

▼ As an example, the system configuration when using the AD7 Series made by Hitachi Industrial Equipment Systems Co., Ltd. in pulse train/analog input mode is shown below. The encoder extension cord and other components differ depending on the driver used. For other system configurations, please contact IKO.



	Name	Identification number	Remarks
(1) [	Driver	AD7A-01NV	Single-phase / three-phase 200V
(2) 1	Motor extension cord	TAE20V7-AM	Cord length: 3~10m
(3) E	Encoder extension cord	TAE20X4-EC	Cord length: 3~10m
(4) 5	Sensor extension cord	TAE10V8-LC	Cord length: 3~10m
(5) F	PC connection cable	-	USB Type C cable This must be prepared by custome
(6) \$	Setup software	ProDriveNext	Please download from the official website of Hitachi Industrial Equipment Systems Co., Ltd.
(7)	I/O connector	TAE20R5-CN	10150-3000PE (Connector) 10350-52F0-008 (Cover) [3M]
(8) I	/O cable	-	
(9) F	Power cord	-	This must be prepared by custome
(10) H	Higher-level device	_	

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. Remarks

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

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