

IKO

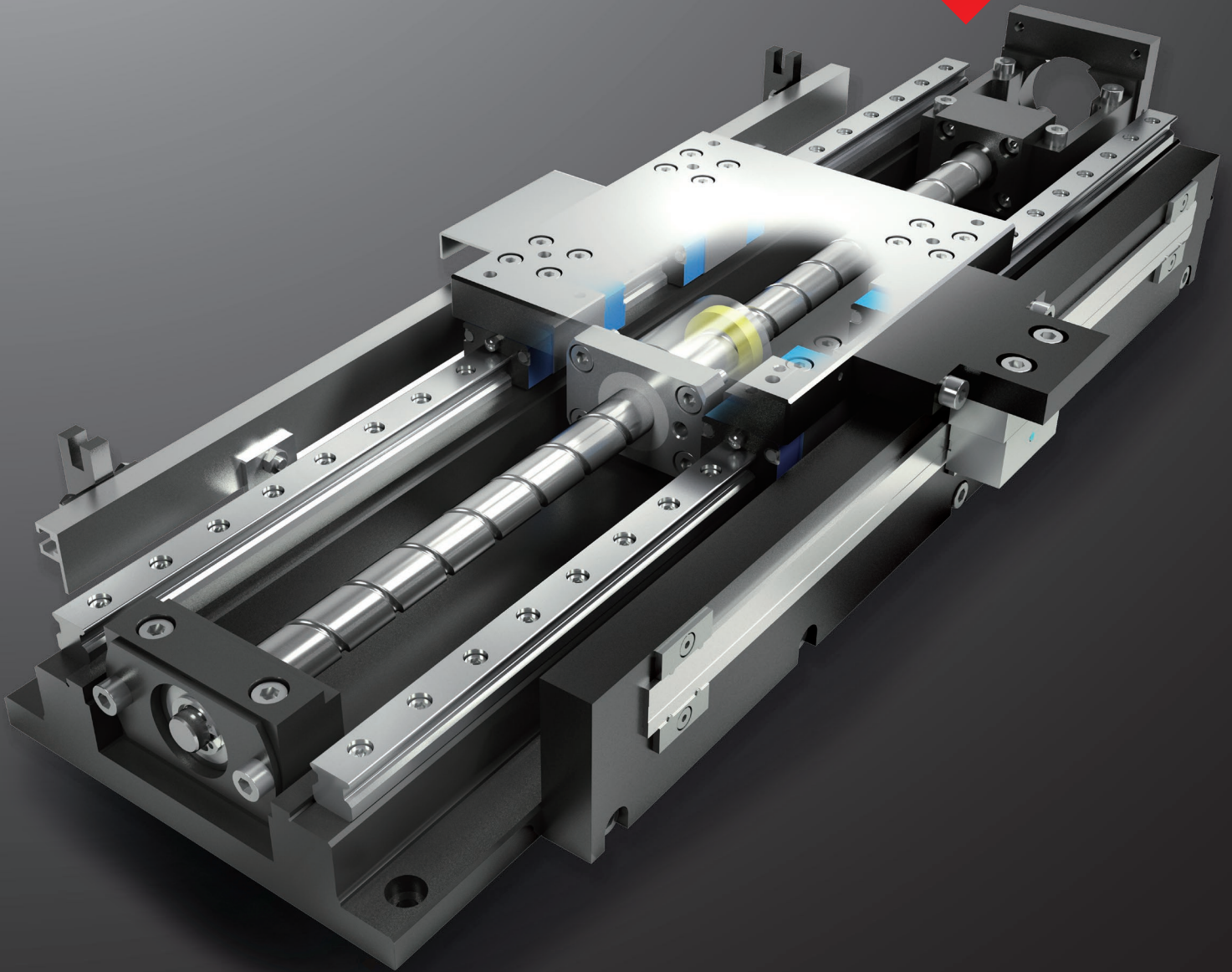
New

Super Precision Positioning Table

TX...M (Single-axis specification)

CTX...M (Two-axis specification)

Absolute Type
Linear Encoder Specification
New Release



NIPPON THOMPSON CO., LTD.

Abundant Variations to Support a Variety of Requirements

Absolute Type Linear Encoder From IKO





IKO's Super Precision Positioning Table TX includes a linear encoder that enables high precision positioning utilizing fully closed loop control. With the addition of an absolute type linear encoder, you have the ability to choose the ideal linear encoder for your equipment.

Signal type	Linear encoder	Supported servomotors	Resolution μm
Absolute type	Renishaw RESOLUTE	Yaskawa Electric Corporation $\Sigma 7$	0.05
		Mitsubishi Electric Corporation J4	0.05
		Panasonic Corporation A6	0.05
Incremental type	HEIDENHAIN K.K. LIF181R	Yaskawa Electric Corporation $\Sigma 7$	Variable
		Mitsubishi Electric Corporation J4 Panasonic Corporation A6	0.01, 0.02, 0.04, 0.05, 0.1, 0.2
	Renishaw TONIC	Yaskawa Electric Corporation $\Sigma 7$	Variable
	Renishaw VIONIC	Mitsubishi Electric Corporation J4 Panasonic Corporation A6	0.01, 0.02, 0.04, 0.05, 0.1, 0.2

Size Variations

TX Super Precision Positioning Tables are available in a wide range of size variations and stroke lengths, so you can select the one that best suits your application.

Orthogonal two-axis specification (CTX...M) types are also available.

Shape	Model and size	Table width (mm)	Stroke length (mm)								
			100	150	200	250	300	400	500	600	800
 120mm	TX120M	120	★	★	★	★	★	—	—	—	—
 220mm	TX220M	220	—	★	★	★	★	★	—	—	—
 320mm	TX320M	320	—	—	—	—	★	★	★	—	—
 420mm	TX420M	420	—	—	—	—	—	—	★	★	★

Product Specifications for Ultra-High Precision Positioning

Absolute Type Linear Encoder

① Return to Origin Not Required - Equipment Start-Up Time Reduced

Absolute Type Linear Encoders measure the absolute position immediately after power is supplied, eliminating the need for a homing operation after it is started or after an emergency stop. They also eliminate the need for pre-origin sensors required with incremental type linear encoders. This means choosing IKO Super Precision Positioning Table TX with an absolute type linear encoder can drastically reduce equipment start-up time.

② Achieves Both High Resolution and High Speed Travel

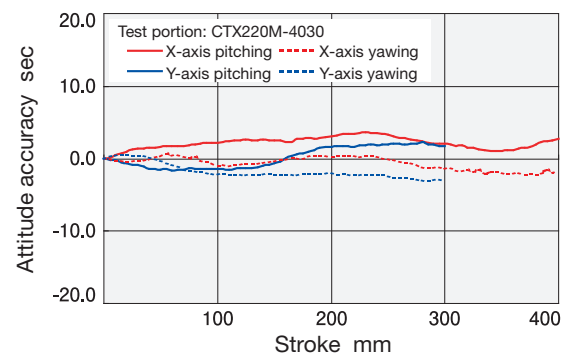
Servo systems equipped with incremental type linear encoders have restrictions on the maximum input frequency on the receiver side, so generally as resolution increases the maximum speed decreases.

On the other hand, absolute type linear encoders use serial communication and measure the position according to the request, therefore the maximum speed doesn't decrease even at high resolutions. At a resolution of 0.05 μm and ball screw lead of 10 mm, the TX maximum speed for incremental types is 200 mm/s, and 500mm/s for absolute types.

Absolute types, like IKO TX, are ideal for applications requiring both high resolution and high speed travel.

Ultimate Running Performance

The TX table uses IKO C-Lube Linear Roller Way X linear motion rolling guide which provides the highest level of operating performance to achieve ultimate running accuracy.



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