

# IKO



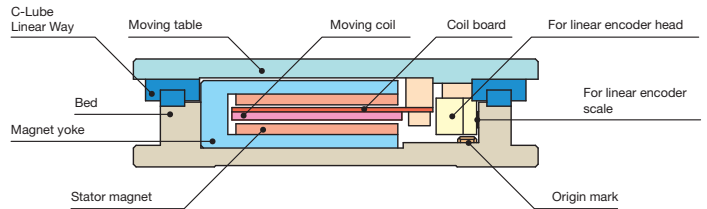
# LT Series

New

## Linear Motor Table Now Available with Expanded High Thrust Specification

### Structure of LT Series

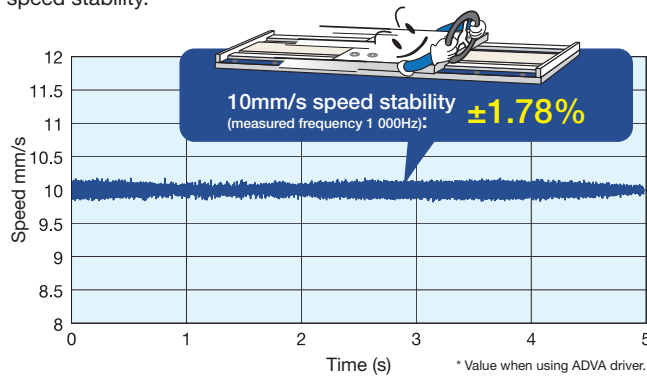
Linear Motor Table LT is a compact and high-accuracy positioning table with an optical linear encoder built in and with AC linear servomotor incorporated between moving table and bed. Lightweight moving table and large thrust force enables the operation of high acceleration / deceleration and high response.



### Features of LT Series

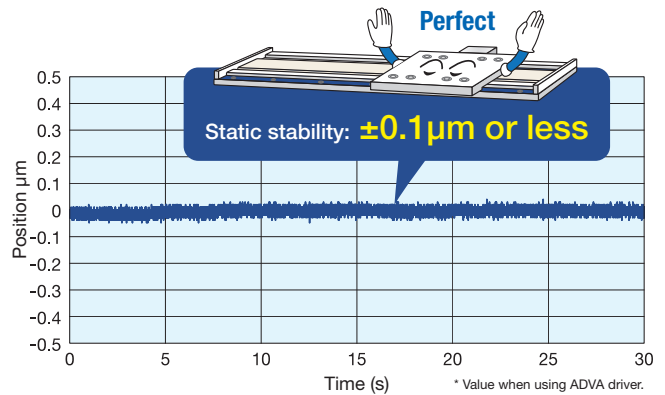
#### High speed stability

Direct drive and advanced servo technology has achieved high speed stability.



#### Static stability

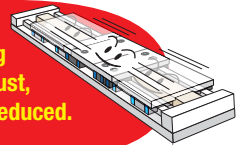
Advanced servo technology has achieved high static stability.



### New! High Thrust Specification 2

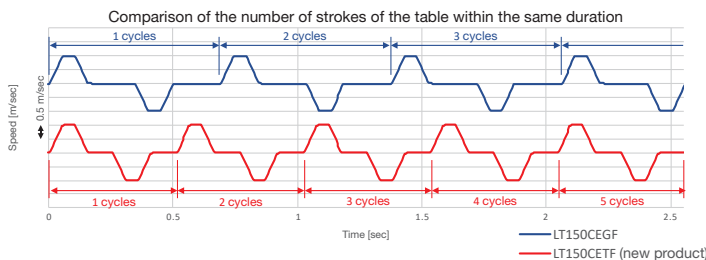
A new lineup of high thrust specifications are now available for the LT series. It accommodates almost any applications with a wide range of variations.

By increasing the rated thrust, tact time is reduced.



#### High Tact

The rated thrust has been increased by about 17 % as compared with the existing high thrust models. Even though this unit is small, it can produce a great thrust force. High acceleration / deceleration ensures highly responsive positioning and contributes to reduced tact time.



#### High thrust

Although this table is compact in shape, it can produce maximum thrust force of 390N. This unit is best suited to the precision positioning of heavy load.

Test conditions		
Model number	LT150CEGF	LT150CETF (new product)
Carrying mass	2 kg	
Stroke	100 mm	
Maximum speed	1 m/s	
Acceleration/deceleration time	0.05 s	
Stop time	0.19 s	0.10 s
Effective thrust force	48 N	56 N
Test results		
5 cycle time	3.45 s	2.55 s

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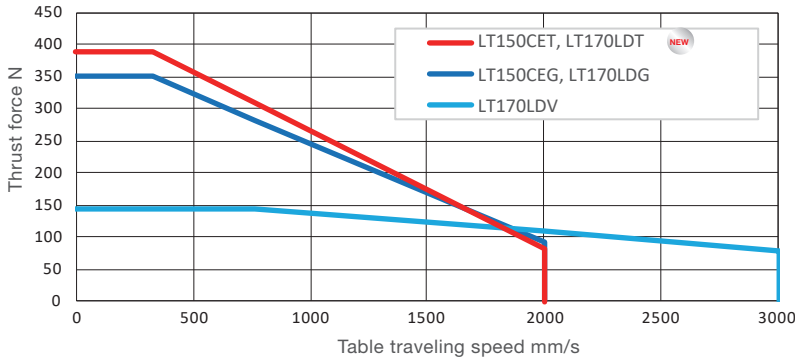
# Specifications

Table 1 Performance

Series		Compact type LT...CE						Long stroke type LT...LD								
Model number		LT150CEG			LT150CET <b>NEW</b>			LT170LDG			LT170LDV			LT170LDT <b>NEW</b>		
Thrust / speed specification		High thrust specification 1			High thrust specification 2			High thrust specification 1			High speed specification			High thrust specification 2		
Moving table shape	Standard															
	With flange															
Maximum thrust <sup>(1)</sup> N		350			390			350			145			390		
Rated thrust N		60			70			60			25			70		
Maximum load mass kg		35			39			35			20			39		
Effective stroke length mm		1200			1200			2720			2720			1640		
Resolution μm		0.1	0.5	1	0.1	0.5	1	0.1	0.5	1	0.1	0.5	1	0.1	0.5	1
Maximum speed <sup>(2)</sup> mm/s		700	2000	2000	700	2000	2000	700	2000	2000	700	2000	3000	700	2000	2000
Positioning repeatability <sup>(3)</sup> μm		±0.5	±0.5	±1.0	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0	±0.5	±0.5	±1.0

Notes (1) The duration of maximum thrust is up to 1 second. (2) This speed may not be reached depending on the max. output frequency of the controller used. (3) When the temperature of the product is constant.

Fig. 1 Thrust characteristics of LT150CE and LT170LD



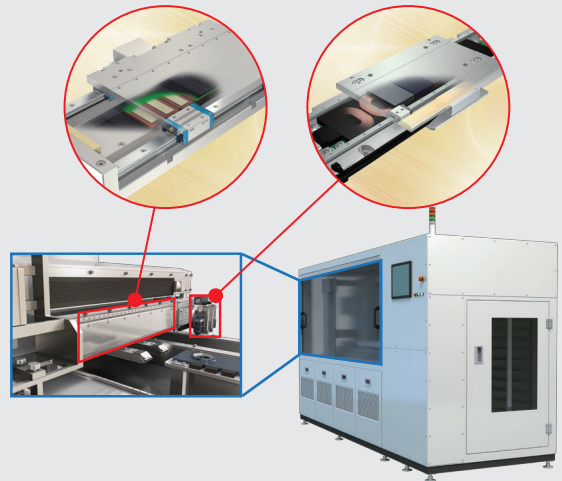
## <Linear Motor Table LT- Use Example>

### Handler

A device used to perform operation tests (performance evaluation and quality judgment) 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



IKO Mechatronics Site

[https://www.me-iko.com/mecha-tool/index\\_en.php](https://www.me-iko.com/mecha-tool/index_en.php)

#### ● NIPPON THOMPSON CO., LTD.

Tokyo (Japan) :Tel. +81 (0)3-3448-5850



#### ● IKO INTERNATIONAL, INC. (U.S.A.)

New Jersey :Tel. +1 973-402-0254  
 Illinois :Tel. +1 630-766-6464  
 Minnesota :Tel. +1 952-892-8415  
 California :Tel. +1 562-941-1019  
 Santa Clara :Tel. +1 408-492-0240  
 (Silicon Valley)  
 Georgia :Tel. +1 770-418-1904  
 Texas :Tel. +1 972-929-1515



#### ● IKO THOMPSON BEARINGS CANADA, INC.(CANADA)

Ontario :Tel. +1-905-361-2872

#### ● IKO BRASIL SERVIÇOS EMPRESARIAIS EIRELI (BRAZIL)

São Paulo :Tel. +55 (0)11-2366-3033

#### ● NIPPON THOMPSON EUROPE B.V. (EUROPE)

The Netherlands :Tel. +31 (0)10-462 68 68  
 Germany  
 Düsseldorf :Tel. +49 (0)211-41 40 61  
 Regensburg :Tel. +49 (0)941-20 60 70  
 Neunkirchen :Tel. +49 (0)6821-99 98 60  
 United Kingdom :Tel. +44 (0)1908-566144  
 Spain :Tel. +34 949-26 33 90  
 France :Tel. +33 (0)1-48 16 57 39



#### ● IKO THOMPSON ASIA CO., LTD. (THAILAND)

Bangkok (Thai) :Tel. +66 (0)2-637-5115

#### ● IKO THOMPSON KOREA CO., LTD. (KOREA)

Seoul :Tel. +82 (0)2-6337-5851

#### ● IKO-THOMPSON (SHANGHAI) LTD. (CHINA)

Shanghai :Tel. +86 (0)21-3250-5525  
 Beijing :Tel. +86 (0)10-6515-7681  
 Guangzhou :Tel. +86 (0)20-8384-0797  
 Wuhan :Tel. +86 (0)27-8556-1610  
 Shenzhen :Tel. +86 (0)755-2265-0553  
 Ningbo :Tel. +86 (0)574-8718-9535  
 Qingdao :Tel. +86 (0)532-8670-2246  
 Shenyang :Tel. +86 (0)24-2334-2662



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