

Made-To-Order

Nano Linear NT

NT100V

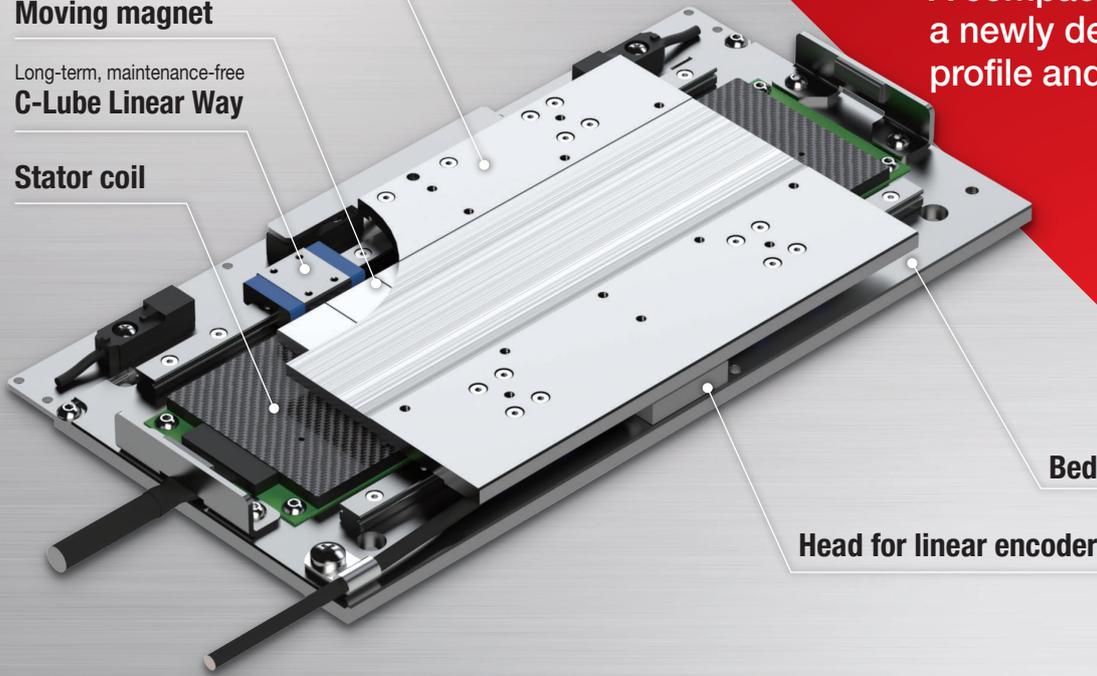
A compact Nano Linear Table with a newly designed engine, low profile and high thrust force!

Moving table

Neodymium magnet used as the **Moving magnet**

Long-term, maintenance-free **C-Lube Linear Way**

Stator coil



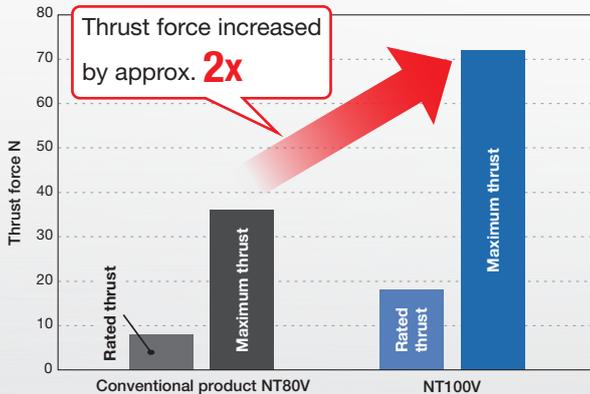
Bed

Head for linear encoder

Features

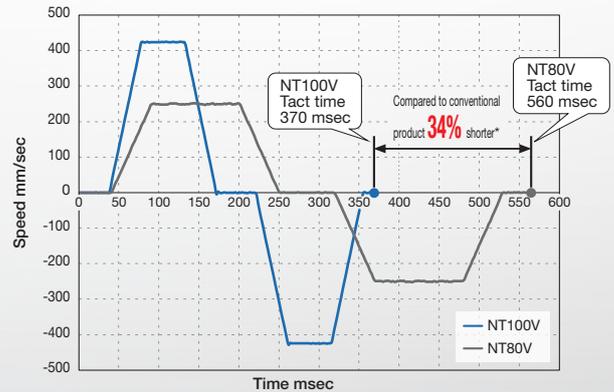
Highest thrust force in the series

Using a newly designed engine and a high-performance neodymium magnet delivers twice the thrust force of the NT80V, the largest conventional size, making it easier to move larger size workpieces.



Short tact time

Thanks to a high-thrust, high-accuracy Linear Motor Table, tact time can be drastically shortened compared to conventional products. Production efficiency is also improved.



*Example from in-house evaluation test. Tact time change depends on the conditions.
*Comparison made using approximately 80% of rated thrust.

Low-profile structure

Extremely low profile while still offering high thrust and high accuracy. With a sectional height of just 17mm, only a 1mm difference from the conventional NT80V, mounting and maintenance in narrow spaces is easy.

Long-term, maintenance-free

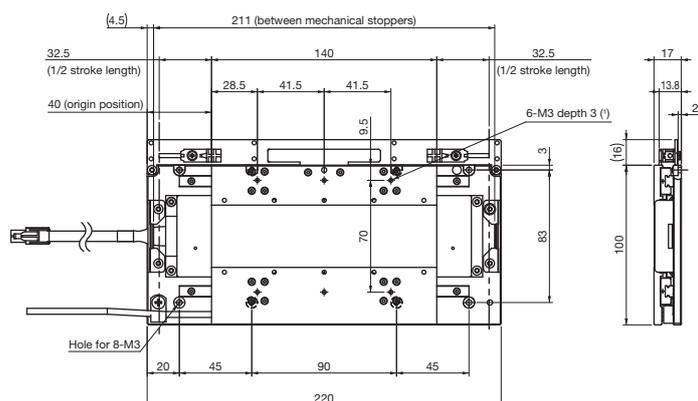
The table guiding parts use a linear motion rolling guide "C-Lube Linear Way" featuring our proprietary technology. Long-term lubrication performance can be maintained with minimal oil. This contributes to suppressing contamination due to oil and grease spatters as well as reducing environmental impacts.

Specifications

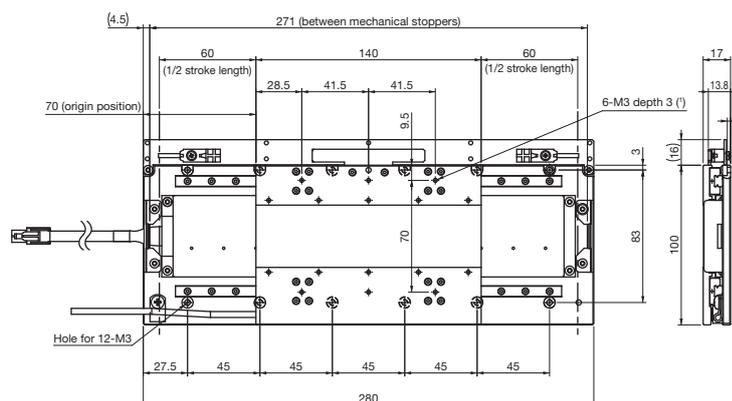
	NT100V NEW						NT80V (Conventional)		
	NT100V65			NT100V120			NT80V120		
Appearance									
Maximum thrust	N 72			N 36					
Rated thrust	N 18			N 8					
Maximum load mass	kg 10			kg 5					
Effective stroke length	mm 65			mm 120			mm 120		
Resolution	μm 0.1		μm 0.5	μm 0.1		μm 0.5	μm 0.1		μm 0.5
Maximum speed	mm/s 270	mm/s 1000	mm/s 1300	mm/s 270	mm/s 1000	mm/s 1300	mm/s 270	mm/s 1000	mm/s 1300
Positioning repeatability	μm ±0.5								
Mass of moving table	kg 0.60						kg 0.47		
Total mass	kg 1.74			kg 2.04			kg 1.4		
Unit operation guaranteed temperature	°C 0 to 55								
Ambient temperature and humidity in operation	0 to 40°C/20 to 80% RH (keep dewdrop free)								

Product dimensions

NT100V65



NT100V120



Note (1) If the fixing depth of the mounting bolt is too deep, it may affect the running performance of the moving table. Never insert a bolt longer than the depth of the tapped hole.

Manufacturing

This is a special order product. Manufacturing is on an individual basis. Please contact IKO for details of system configuration, etc.

● 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
 California :Tel. +1 562-941-1019
 Santa Clara (Silicon Valley) :Tel. +1 408-492-0240
 Georgia :Tel. +1 770-418-1904
 Texas :Tel. +1 972-929-0444

● IKO BRASIL SERVIÇOS EMPRESARIAIS LTDA. (BRAZIL)

Sao Paulo :Tel. +55-(11) 2366-3033

● NIPPON THOMPSON EUROPE B.V. (EUROPE)

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

● 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)775-2265-0553
 Xian :Tel. +86 (0)29-8323-5915
 Qingdao :Tel. +86 (0)532-8670-2246
 Ningbo :Tel. +86 (0)574-8718-9535
 Shenyang :Tel. +86 (0)24-2334-2662

● 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



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