

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**

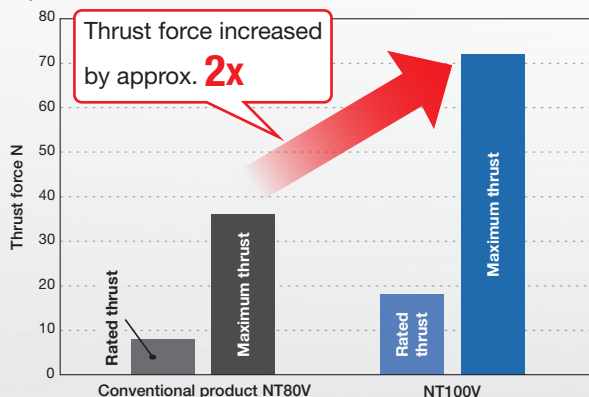
**Bed**

**Head for linear encoder**

## Features

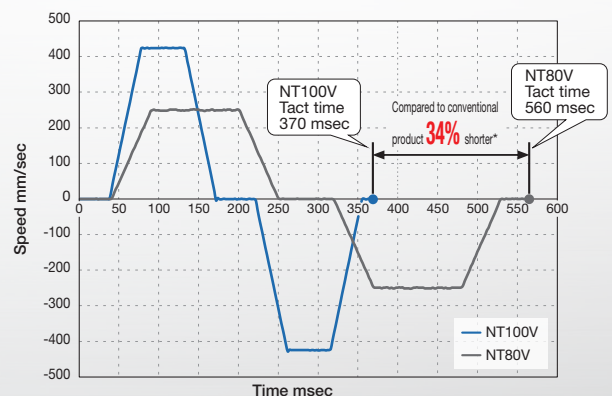
### Highest thrust force in the series

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

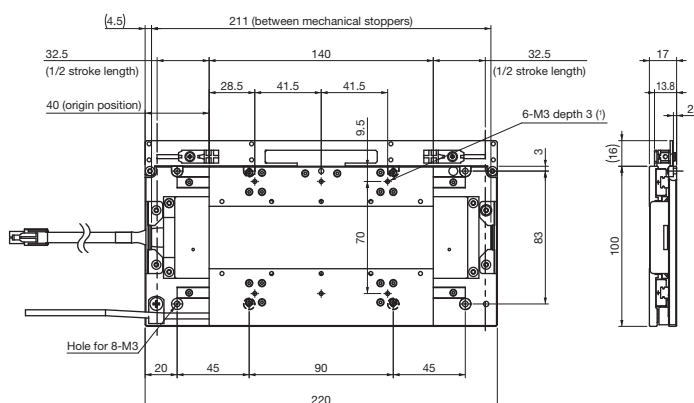
The table guiding parts use a linear motion rolling guide "C-Lube Linear Way" featuring our proprietary technology. Long-term lubrication performance can be maintained with minimal oil. This contributes to suppressing contamination due to oil and grease spatters as well as reducing environmental impacts.

## Specifications

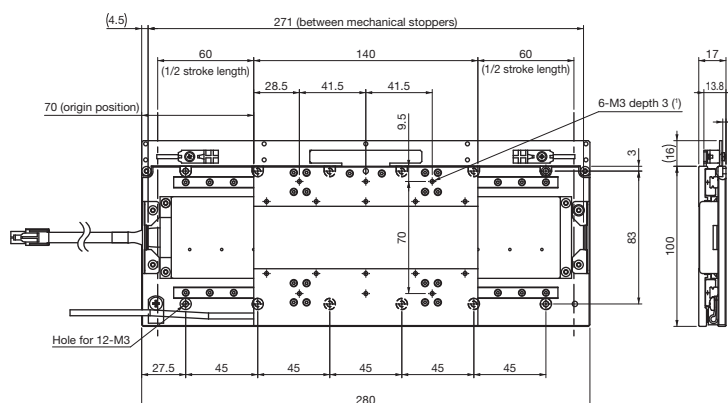
	NT100V <b>NEW</b>						NT80V (Conventional)		
	NT100V65			NT100V120			NT80V120		
Appearance									
Maximum thrust	N			72			36		
Rated thrust	N			18			8		
Maximum load mass	kg			10			5		
Effective stroke length	mm			120			120		
Resolution	μm			0.1			0.1		
Maximum speed	mm/s			270			270		
Positioning repeatability	μm			±0.5			±0.5		
Mass of moving table	kg			0.60			0.47		
Total mass	kg			1.74			1.4		
Unit operation guaranteed temperature	°C			0 to 55			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.

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