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NIPPON THOMPSON CO., LTD.



Nano Linear NT NT30V

The smallest size available in the lightweight and compact Nano Linear series!



omm

Introducing the smallest size in the lightweight/ low Cutting-edge linear motor technology for increased as semiconductor manufacturing equipment.

Structure and Characteristics of NT30V

NT···V is a compact, high-accuracy Linear Motor Table using a linear motion rolling guide in its guiding parts. The newly developed NT30V is the smallest size in the series with a table width of 30mm and a sectional height of only 8mm, thanks to a thorough revision of its components, including the use of our unique ultra-compact linear motion rolling guide.

NT30V has the same maximum thrust as the NT38V, previously the smallest model in the series, with a dramatic reduction in sectional height.

This structure enables an even lower-profile conveyor mechanism with multiple units in place. NT30V reduces equipment size while providing takt time improvement.





Suitable for semiconductor manufacturing equipment and high-accuracy inspection equipment



Moving multiple components to their fixed positions at high speed and with high accuracy requires high thrust conveying equipment with excellent positioning accuracy. Because NT30V combines excellent positioning accuracy, low sectional height, and high thrust, it can be installed in narrow spaces or as multiple units where conventional Linear Motor Tables could not be used.



As an extremely lightweight and compact Linear Motor Table, NT30V can reduce the size and save energy in the equipment where it is installed.

profile NT···V series! performance in testing and inspection equipment as well

Features of NT30V

The lowest sectional height in the series

Sectional height of 8mm and table width of 30mm are both the lowest in the NT---V series. Since it is compact and lightweight, it can be installed in narrow spaces or as multiple units.



High thrust

Even though it is compact, NT30V maintains the rated thrust and maximum thrust equivalent to or exceeding NT38V, previously the smallest size in the series.



Long stroke

While maintaining its compact size, the stroke has been increased by 2mm from the previous smallest size, thanks to an optimized design.

Effective stroke length







Identification Number/Specifications

	NT	30	V 20	/ 1	R	1				
Example	1	2	13	4	5	6				
Mo	del coo	le				5	Cord dir	ection [*]		
		Model code					Pullout direction			
	NT…V		Nano Linear NT·	··V			L		Leftward	
							B		Rightward	
2 Size	e	Size Width 30mm			* Direction in which the cord i For details, see Cord Directi	n the cord is pulled ou cord Direction below (pulled out when the encoder side is at the front. n below (ex.: Rightward).			
	30					Specification number*				
	50						Specification number			
3 Stro	oke len									
		Stroke I	ength				* The specification	n number is limited t	o 1.	
	8		8mm							
	20		20mm							
4 Resolution of linear encoder						R: Rightward				
1			0.1µm				L : L offword	Reve	<	
			0.5µm				L: Leitward	: Leftward Encoder side		
			NT	30V NEW				NT38V (Co	nventional)	
		١	1T30V8		NT30V20		NT38	3V10	NT38	8V18
Appearance		×.		30			The second	38		
Sectional shape Maximum thrust (') N Rated thrust (2) N Maximum land mana land										
						3	3			
			0.7		1		0.	6	0.8	8
Maximum load mass kg			0		0.0	0.	5	2		
Effective stroke length mm		0.1	8	0.4	20	0.5	1	0.5	18	0.5
	mm/s	0.1	0.5	0.1		500	0.1	0.5	0.1	0.5
Positioning repeated	niin/s	210	500	270			270	500	210	500
Jass of moving tak	ole ka		0.025		0.035	±U		36	0.0	48
Total mass (5) kg	no ng		0.170		0.190		0.0	90	0.0	30
peration guaranteed main bo	dv temperature °C	0.170 0.190 0.190 0.230								
mbient temperature and hun	hidity in operation	0 to 00 0 to 40°C/20 to 80% RH (keep condensation free)								

Notes (!) The duration of maximum thrust is up to 1 second. (?) This is based on the case of mounting on a metal mating member material with ambient temperature of 20°C and product temperature of 20°C as cooling conditions. (?) This maximum speed may not be reached depending on the maximum output frequency of the controller used, and the driver type or settings. (4) When the temperature of the product is constant.
 (5) Mass of the cord is not included.

• Thrust characteristics

Thrust characteristics of NT30V







Product Dimensions

NT30V8



NT30V20



Note () Inserting mounting screws too deeply may affect the running performance of the moving table. Never insert a screw longer than the depth of the through hole.



Rated thrust characteristics of NT30V





System Configuration

The Panasonic Corporation MVDL driver is available for Nano Linear NT30V; it supports pulse train specifications as well as the EtherCAT and RTEX motion networks. For driver types and system configurations, see pages 5 and 6. Drivers other than the above can also be used. If needed, please contact IKO.

• Setup software

To operate Nano Linear NT30V, initial setting of driver parameters is required. The driver parameter setting is performed using the setup software. The setup software and PC connection cable are not provided with the driver. Use with multiple drivers is possible, but at least one set is required. Please obtain these on your own or place an order separately according to your requirements.

Motion networks

The Nano Linear NT30V MVDL driver supports various motion networks. Motion networks realize higher performance and higher accuracy free from pulse frequency constraint in pulse train command, noise effects in analog command (voltage command), voltage drop due to cable length, and the effects of temperature drifting. Reduction of wiring can also be achieved, so a synchronized system with more than one table can easily be established.



No.	Name	Identification number				
		MVDLN2CSM	Pulse train			
0	Driver	MVDLN2CNL	RTEX			
		MVDLN2CBL	EtherCAT			
6	Motor extension cord	TAE20X5-AM03				
4	Encoder extension cord	TAE20W9-EC02				
6	PC connection cable	USB mini B cable (this must be provided by the customer).				
6	Setup software	Download PANATERM from the Panasonic Corporation website.				
0	Connectors for input/output signal	TE Connectivity Japan G.K. 1-1827863-4 (housing) and 1827587-2 (contact) (this must be provided by the customer).				
8	Power supply connector (XA-1)	JST Mfg. Co., Ltd. F31FSS-03V-KX (housing) and SF3F-41GF-P2.0 (contact) (this must be provided by the customer).				
9	Power supply connector (XA-2)	Molex Japan Co., Ltd. 5557-02R-210 (housing) and 5556-PBGSPL (contact) (this must be provided by the customer).				
0	Power cord					
0	Higher-level device	- This must be provided by the customer.				
0	Higher-level device connection cord					
₿	24VDC power supply					

Driver for NT30V

MVDL specifications

- Low-floor, slim design 30mm thin. Contributes to keeping equipment more compact and saving space.
- Equipment optimal high-speed response control is possible through high-speed response performance, load fluctuation control, and vibration control function.



Item	Ide	ntification number	MVDLN2CSM	MVDLN2CNL	MVDLN2CBL			
Basic specification	Input power supply (1) (2)		24VDC (+21, -17%)					
	Maximum output current		4 Arms					
	Control mode		 Position control Speed control (built-in commands/ analog commands) Thrust force control Position/speed control Position/thrust force control Switching with parameters 	 Position control/Protocol control (PP) Position control/Cyclic control (CP) Speed control/Cyclic control (CV) Thrust force control/Cyclic control (CT) Switching with RTEX communication commands 	Position control/Protocol control (pp) Position control/Cyclic control (scp) Position control/Return to origin position control (hm) Speed control/Protocol control (pv) Speed control/Cyclic control (scv) Thrust force control/Protocol control (cst) Switching with EtherCat communication commands			
Input/Output relation function	Operation commands		Pulse train input Line driver: 500kpps (after 4-time multiplication) Open collector: 200kpps (after 4-time multiplication) Analog input 0 to ±10V (1 input 16-bit A/D)	Realtime Express (RTEX)	EtherCAT			
	Contact	Input	Universal 5 inputs (function selected with parameters) 12 to 24VDC ±5% Open collector signal input	Universal 8 inputs (function selected with parameters) 12 to 24VDC ±5% Open collector signal input				
	input/output Output		Universal 3 outputs (function selected with parameters) 12 to 24VDC ±5% Open collector signal output	Universal 2 outputs (function selected with parameters) Alarm 1 output 12 to 24VDC ±5% Open collector signal output				
	Analog monitor output		1 output ±10V (function selected with parameters)	-				
function	Communication function		USB : Parameter setting, status monitor RS232C : Higher-level controller 1:1 communication RS485 : Higher-level controller 1:N communication Modbus : Higher-level controller 1:N communication	USB : Parameter setting, status monitor RTEX : Parameter setting, status monitor	USB : Parameter setting, status monitor EtherCAT : Parameter setting, status monitor			
ernal	Dynamic brake circuit		Built-in					
Inte	Regenerative processing circuit		Not supported					
	Safety terminal	I	Not supported					
ing environment	Ambient temperature in operation / Storage temperature (3)		0 to 50°C (no condensation) / -20 to 65°C (maximum temperature guarantee: 80°C, 72 hours, no condensation)					
	Operating/storage humidity (3)		20 to 85% RH or lower (no condensation)					
	Vibration resistance		5.8m/s ² or less, 10 to 60Hz					
perat	Altitude		1000m or less					
0	Pollution degre	e	Pollution degree 2					
Mass	3		0.35 kg					
Notes	Notes (1) For DC power supply, use a stabilized power supply with reinforced insulation. Also, pay attention to the DC power supply voltage fluctuation, load fluctuation, regeneration, etc. to keep it within the input power supply range							

The input power voltage range is the range within which the servo amp can functionally drive the motor. Note that depending on the motor specifications, if the voltage falls below the rated voltage nominal value (24V), the overload protection function may activate even if the speed and torque are within rated ranges. (3) Note that condensation is more likely if the temperature falls.