

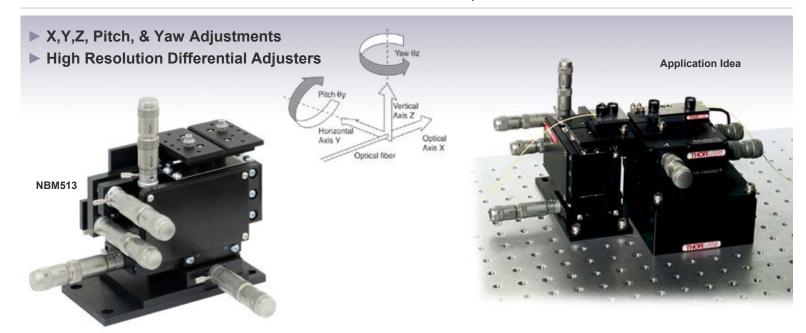
56 Sparta Avenue • Newton, New Jersey 07860 (973) 300-3000 Sales • (973) 300-3600 Fax



NBM513 - April 18, 2016

Item # NBM513 was discontinued on April 18, 2016. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

5-AXIS NANOBLOCK DEVICE PLATFORM, 112.5 mm DECK HEIGHT



Hide Overview

OVERVIEW

NanoBlock™ 5-Axis Device Platform, 112.5 mm Deck Height

This 5-Axis Device Platform is designed to be used in conjunction with the NanoMax™ 600 six-axis waveguide manipulator. It is well suited for applications that require an optical element or assembly to be held at a fixed position in front of a high performance multi-axis alignment system. The five degrees of freedom that this device offers allow the fixed portion of the optical assembly to be positioned such that it has the proper orientation with respect to another positioning stage. The orientation adjustment is achieved via 5 differential adjusters. The coarse adjustment is actuated by a 0.5mm pitch lead screw. The fine adjustment is achieved by using our patented differential mechanism providing 50µm of translation per revolution with a 300µm range.

The NBM513, 5-Axis Device Platform has flexure hinges for all the rotational degrees of freedom, while the x and y linear axes use traditional bearing stages to provide for longer travel. The top deck of the NBM513 is located at 112.5mm above the bottom mounting surface of the device and is designed to accept any of the NanoBlock accessories.

Hide Specs

SPECS

NanoBlock™ 5-Axis Specifications:				
Coarse Travel				
Optical Axis (x)	13 mm			
Horizontal Axis (y)	13 mm			
Vertical Axis (z)	6 mm			
Pitch Axis (θy)	8°			
Yaw Axis (θz)	8°			
Differential Travel				
Optical Axis (x)	300 μm			
Horizontal Axis (y)	300 μm			
Vertical Axis (z)	300 μm			
Pitch Axis (θy)	30 arcmin			
Yaw Axis (θz)	10 arcmin			
Coarse Resolution				
Optical Axis (x)	1µm			
Horizontal Axis (y)	1µm			
Vertical Axis (z)	1 µm			
Pitch Axis (θy)	10 arcsec			
Yaw Axis (θz)	10 arcsec			
Differential Resolution				
Optical Axis (x)	50 nm			
Horizontal Axis (y)	50 nm			
Vertical Axis (z)	50 nm			
Pitch Axis (θy)	1 arc sec.			
Yaw Axis (θz)	1 arcsec			
Deck Height	112.5 mm to the mounting surface of the moving			
	platform.			
	The accessory beam height is 125 mm measured from the bottom surface of the stage.			
Load Canacity	500 g (1.1 lbs)			
Load Capacity	500 g (1.1 lbs)			

Hide Part Numbers

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Part Number	Description	Price	Availability
NBM513/M	NanoBlock 5-Axis Waveguide Manipulator with Differential Drive Actuators, Metric	\$5,740.00	Lead Time
NBM513	NanoBlock 5-Axis Waveguide Manipulator with Differential Drive Actuators, Imperial	\$5,740.00	Lead Time

Visit the *5-Axis NanoBlock Device Platform, 112.5 mm Deck Height* page for pricing and availability information: http://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=1057