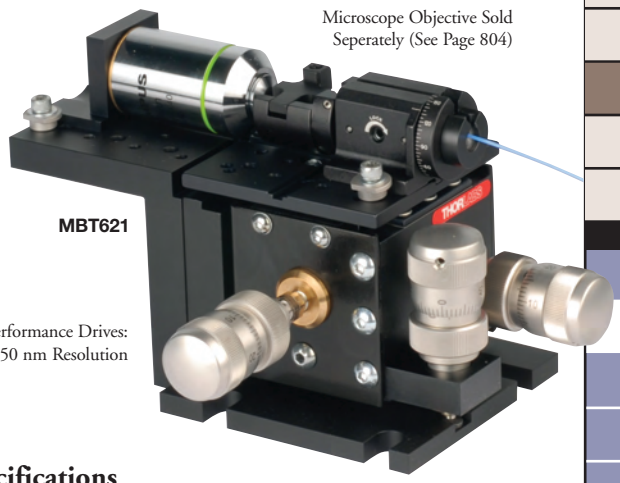
MicroBlock™ PM Fiber Launch with Fiber Rotator

System Includes:

- MBT616 High-Resolution Flexure Stage with 4 mm of Travel, See Page 469
- Three High-Performance Drives Provide 4 mm of Coarse Travel and 300 µm of Fine Travel
- HFR007 Fiber Rotator with Adjustable Force Magnetic Clamping Mechanism, See Page 503
- AMA009 Large Fixed Platform, See Page 497
- HCS013 Microscope Objective Mount, See Page 499

The MBT621 launch system features our high resolution drives that are ideal for coupling a free-space laser into a single mode fiber, even at visible wavelengths where the mode field diameter of the fibers are as small as 3 µm. The rotary fiber holder provides smooth rotation with negligible run-out. When using polarization maintaining fibers, this system provides an easy means of optimizing the extinction ratio of the signal being coupled through the PM fiber. Thorlabs offers a number of five- and six-axis systems for applications that require more advanced capabilities. Please see page 487-495.

Microscope Objective Sold Seperately (See Page 804)



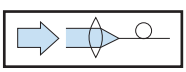
Specifications

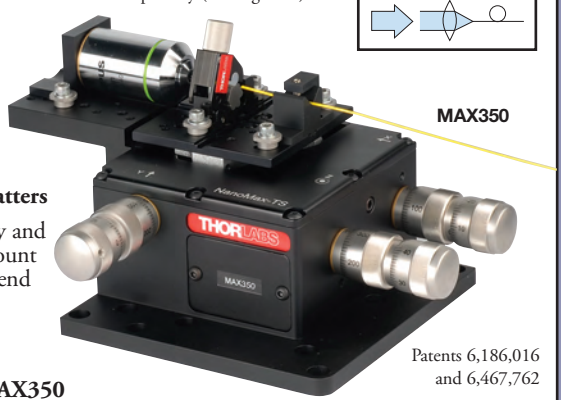
- **Travel:** 0.16" (4 mm)
- **Crosstalk:** <20 µm/mm
- **Load Capacity:** 2.2 lbs (1 kg)
- **Thermal Stability:** 1 µm/°C
- **Differential Adjusters**
  - Coarse Adjustment: 0.5 mm/rev
  - Fine Adjustment: 50 µm/rev

ITEM#	METRIC ITEM#	$	£	€	RMB	DESCRIPTION
MBT621	MBT621/M	$ 1,355.00	£ 924.70	€ 1.203,00	¥11,442.00	MicroBlock™ Free-Space to PM Fiber Launch System

NanoMax™ SM Fiber Launch for Bare Fiber

Microscope Objective Sold Separately (See Page 804)





Patents 6,186,016 and 6,467,762

Specifications

- **Travel:** 4 mm
- **Thermal Stability:** 1 µm/°C
- **Differential Adjusters**
  - Coarse Adjustment: 0.5 mm/rev
  - Fine Adjustment: 50 µm/rev
- **High-Resolution Manual Drives:** Provides 50 nm of Fine Control Resolution Over a Total Range of 300 µm
- **Parallel 3-Axis Flexure Mechanism:** Allows all Three Drives to be Rigidly Attached to the Main Body of the Stage
- **Crosstalk:** 20 µm/mm of Travel (Max)
- **Repeatability:** 500 nm RMS Bidirectional
- **Load Capacity:** 2.2 lbs (1 kg)
- **Resonant Frequency (±10% Hz):** 375 Hz (No Load), 200 Hz (275 g Load), 150 Hz (575 g Load)
- **Accessories:** Mounted on the Top Deck of the Stage:
  Large Fixed Bracket (AMA009)
  Microscope Objective Mount (HCS013)
  Adjustable Force Fiber Clamp (HFF001)
  Cable Strain Relief (HFS001)

When Performance Matters

When long-term stability and ease-of-use are of paramount importance, we recommend this series of NanoMax launch systems.

NanoMax™ Model MAX350

The MAX350 series represents the latest generation of single mode fiber launch systems. Utilizing our patented highly stable flexure design with our patented dual-stage high resolution micrometers, we create a fiber launch system that ensures the very best performance of all our platforms. When coupling a free-space beam into a single mode fiber, the critical performance factors are the resolution and stability of the system. The intrinsic stiffness and resultant stability of our flexure system, as compared to a linear bearing design, provides superior performance during the initial alignment of the system as well as its long term operation. The resolution is ensured through the unique combination of our high performance dual stage micrometers and the parallel flexure mechanism that provides a true nanopositioning capability.

ITEM#	METRIC ITEM#	$	£	€	RMB	DESCRIPTION
MAX350	MAX350/M	$ 1,930.00	£ 1,338.00	€ 1.713,50	¥16,297.00	NanoMax™ Fiber Launch System