

Z-INSERT NIKON

The Z-INSERT NIKON is a special version of the Z-INSERT that can fit directly into a NIKON Ti XY motorized stage.

It provides a standard K-type 160 x 110 mm opening compatible with our 160 x 110 sample holders



Features

- Travel ranges up to 500 μ m
- Low profile for easy integration
- Closed loop control
- Silicon sensor technology
- Less than 50pm noise floor

Applications

- Z-stack
- Autofocus system
- Confocal microscopy
- Super Resolution microscopy
- Biotechnology

Specifications

	Z-INSERT NIKON.100	Z-INSERT NIKON.200	Z-INSERT NIKON.300	Z-INSERT NIKON.500	Unit
Range of motion Z	100	200	300	500	μm
Resolution Z	0,1	0,2	0,3	0,5	nm
Typical noise floor Z	0,01	0,02	0,03	0,05	nm
Full range repeatability Z	0,2	0,4	0,6	1	nm
Linearity Z (typical)	0,02%	0,02%	0,02%	0,02%	
Resonant frequency Z	450	350	300	200	Hz
Stiffness Z	0,6	0,5	0,4	0,25	N/ μm
Maximum Load* :					
- horizontal use			1		kg
- vertical use			0,5		kg
Sensor		Silicon HR sensor			
Size W x L x H		236 x 160 x 23,3			mm
Material		Al			
Cable length**		2			m
Controller		Standard			

*Higher load on request

** Higher length on request

Drawing

