



## Piezo Z-Stage 500 µm for Märzhäuser Scanning Stages in the SCAN IM Series

### Specifications

Travel range	500 µm
Resolution <sup>1</sup>	5 nm (USB) 31 nm (8 nm on request, Analog In)
Repeatability	50 nm (unidirectional)
Linearity <sup>2</sup>	0.2 %
Settling time <sup>3</sup>	10 ms
Load	max. 0.3 kg
Position sensor	capacitive
Operation mode	closed-loop operation
Operating temperature	-20...+80 °C
Interfaces	USB, Ethernet, Analog In (0...10, -10...10, -5...5 V DC)
Connection cable <sup>4</sup>	1.5 m
Material	aluminium
Weight <sup>5</sup>	0.8 kg

### Order Information

Piezo Z-stage 500 µm  
 incl. controller EBD-060310  
 Order No.: 00-55-550-0810

### Product Features

- ▶ compatible with nearly all Märzhäuser scanning stages in the SCAN IM series
- ▶ direct connection between Piezo controller and TANGO controllers with AUX I/O
- ▶ dynamic Z-motion with travel ranges up to 500 µm
- ▶ highly dynamic scanning sequences can be realized by means of trigger functionality

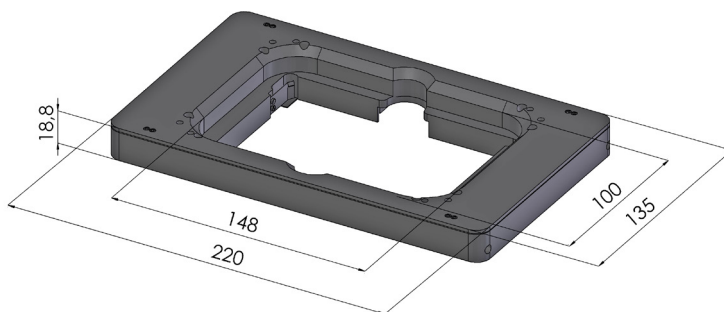
### Accessories

Universal stage insert  
 Order No.: 00-55-500-1020

Stage insert for slides  
 Order No.: 00-55-500-1000 (1 slide)  
 Order No.: 00-55-500-1030 (2 slides)

Stage insert for 1 Petri dish  
 Order No.: 00-55-500-1010

### Dimensions



Please note: Stage opening not compatible with standard stage inserts.

In cooperation with  piezo · positioning · systems



<sup>1</sup> smallest step

<sup>2</sup> along the whole travel range

<sup>3</sup> applies to loads < 200 g with a step size of 100 nm

<sup>4</sup> connection between stage and controller

<sup>5</sup> stage incl. connection cable