

## 8MT167-25BS1 / -25LS - Linear Motor Positioning Stage



- **Linear Motor Positioning Stage**
- DC-motor-driven configuration is available with resolutions of 1  $\mu\text{m}$  and 0.1  $\mu\text{m}$ .
- High stiffness and thermal stability with a low profile design
- [List of all Linear Motor Positioning Stages](#)
- [Manual version of Linear Positioning Stages](#)

### 8MT167-25BS1 / 8MT167-25LS with insert platform 7T167-25.07-01

**Motorized Translation Stages 8MT167-25BS1**, unlike the **8MT167-25LS**, is designed for high-speed movement. Used ball bearing lead screw makes movement fast and smooth. The positioner also can be used with microscope on XY axes. As shown in the pictures, the upper plate has a removable insert in the center, the size of which 2 inches, the base plate is made with slot size of 51 x 76 mm, on the same vertical. Linear Motor Positioning Stage provides high-resolution motion as well as high stability performance.



**"Mirror" versions available:**  
8MT167M-25BS1 and 8MT167M-25LS

2AB167-25 Angle bracket is used to transform "horizontal" translators into vertical ones, result is 8MT167-25 XYZ 3 axis translation system

	8MT167-25BS1	8MT167M-25BS1	8MT167-25LS	8MT167M-25LS
Travel range, mm	25	25	25	25
Resolution full step, $\mu\text{m}$	5	5	1.25	1.25
Resolution 1/8 step, $\mu\text{m}$	0.625	0.625	0.156	0.156
Ball screw pitch, mm	1	1	-	-
Lead screw pitch, mm	-	-	0.25	0.25
Repeatability, $\mu\text{m}$	1.5	1.5	1	1
Maximum speed, mm/s	25	25	6	6
Maximum load				
Horizontal, kg	30	30	30	30
Vertical, kg	7	7	7	7
Mechanical end limit switches		2, Pushed is "closed"		
Cable		1.6 m long cable included		
Motor connector		HDB15(M) ( <a href="#">wiring diagram</a> )		
Stepper motor		28		
Weight	0.8 kg	0.8 kg	0.8 kg	0.8 kg
Recommended controllers		8SMC1-USBhF 8SMC3-RS232 8SMMC2		

### Ordering Information

Model	Additional info
8MT167-25BS1	
8MT167-25LS	
8MT167-25LS-MEn1	with encoder
8MT167M-25BS1	Mirror version
8MT167M-25LS	Mirror version