



Motorized Linear Stages

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8MT175 - Motorized Linear Stages

Printable version

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- Narrow
- Compact design
- Motorized linear stages
- Resolution 0.31 μm (1/8 step)
- High guide way accuracy
- Lead screw pitch 0.5 mm
- X-Y-Z configurations available
- 50, 100, 150, 200 mm travel range
- Manual version :
 - 7T175-50
 - 7T175-100, 7T175-150
 - Model for vacuum

8MT175-150 8MT175-50 Zoom in

Motorized Linear Stages 8MT175. Resolution of the motorized linear stages can be increased by using a step division function (up to 1/8 of the step) of our controllers. **Stages equipped with DC or DC for vacuum motors are available, example: 8MT175-50DCE, 8MT175V-50DCE.**

8MT175-100 X-Y-Z

2AB175
Angle Bracket 2AB175 is used to transform "horizontal translators into vertical ones.

3UBP175
Motorized linear stage has a motor protruding from its **bottom**. In order to place such stages on flat surfaces you need a Base Plate 3UBP175-50.

8MT175-50 X-Y
In X-Y configuration motorized linear stages are stacked directly using M6 screws.

8MT175V-VSS42 Compatible with 10^{-6} Torr vacuum.

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
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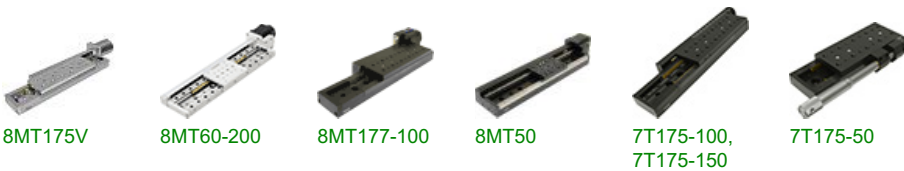
*Test condition: • STANDA controllers; • Power supply – 36V.

Specifications			Ordering Information			
Lead screw pitch	0.5 mm	Model	Travel range, mm	Weight, kg	Qty.	
Resolution in full step*	2.5 µm					
Resolution in 1/8 step	0.31 µm	8MT175-100	100	1.5	1	
Max. speed*	10 mm/s	8MT175-100-MEn1	100	1.5	1	
Load capacity		8MT175-150	150	1.5	1	
	Horizontal	8MT175-150-MEn1	150	1.5	1	
Vertical	3 kg					
		8MT175-200	200	1.6	1	
Motor connector	DB9(M) (wiring diagram)	8MT175-200-MEn1	200	1.6	1	
Stepper motor	4247	8MT175-50	50	1	1	
Assemblies		8MT175-50-MEn1	50	1	1	
X-Y	directly	8MT175V-100-VSS42	100	1.5	1	
	Z	2AB175	150	1.5	1	
Recommended controllers	8SMC5-USB	8MT175V-150-VSS42	200	1.6	1	
		8MT175V-200-VSS42	200	1.6	1	
Mechanical end limit switches	2	8MT175V-50-VSS42	50	1	1	
	Switch polarity	- ...-MEn1 models have motor with integrated rotary encoder - ...-VSS42 are vacuum compatible models (up to 10 ⁻⁶ Torr)				
		pushed is closed				

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8MT175-50 Motorized Linear Stage is integrated as a Z-axis in 6-axis motorized system.

6-Axis Robotic (Precision Positioning) System



8MT175 Motorized Linear Stages are incorporated in multi-axis automated system.

→ **STANDA** in Lithuania
STANDA P.BOX 2684 ,
03001 Vilnius 9 P.O., Lithuania
Phone +370 5 2651474,
Fax +370 5 2651483
E-mail: sales@standa.LT

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Precision Positioning Stage (6-axis)



Vacuum compatible (10^{-6} Torr) encoder equipped 8MT175V motorized linear stages demonstration.

Vacuum Linear Translation Stage



Vacuum compatible (10^{-6} Torr) motorized linear stages in XYZ assembly.

Vacuum multi-axis linear stage



8MT175-100 Motorized Linear Stage is utilized as a Z-axis in multi-axis motorized system.

XYZ Linear Portal Station



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