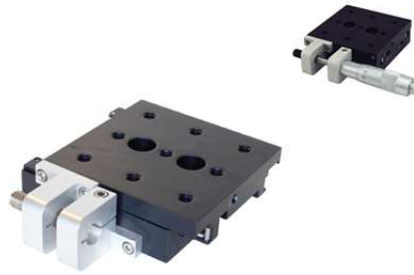


TSB Series User's Manual

Translation stages



Disclaimer

Zaber's products are not intended for use in any critical medical, aviation, or military applications or situations where a product's use or failure could cause personal injury, death, or damage to property. Zaber disclaims any warranty of fitness for a particular purpose. The user of this product agrees to [Zaber's general terms and conditions of sale](#).

Warranty and Repair

For Zaber's policies on warranty and repair, please refer to the [Ordering Policies](#).

Standard products

Standard products are any part numbers that do not contain the suffix ENG followed by a 4 digit number. Most, but not all, standard products are listed for sale on our website. All standard Zaber products are backed by a one-month satisfaction guarantee. If you are not satisfied with your purchase, we will refund your payment minus any shipping charges. Goods must be in brand new saleable condition with no marks. Zaber products are guaranteed for one year. During this period Zaber will repair any products with faults due to manufacturing defects, free of charge.

Custom products

Custom products are any part numbers containing the suffix ENG followed by a 4 digit number. Each of these products has been designed for a custom application for a particular customer. Custom products are guaranteed for one year, unless explicitly stated otherwise. During this period Zaber will repair any products with faults due to manufacturing defects, free of charge.

How to return products

Customers with devices in need of return or repair should contact Zaber to obtain an RMA form which must be filled out and sent back to us to receive an RMA number. The RMA form contains instructions for packing and returning the device. The specified RMA number must be included on the shipment to ensure timely processing.

Email Updates

If you would like to receive our periodic email newsletter including product updates and promotions.

Contact Information

Contact Zaber Technologies Inc by any of the following methods:

Phone	1-604-569-3780 (direct) 1-888-276-8033 (toll free in North America)
Fax	1-604-648-8033
Mail	#2 - 605 West Kent Ave. N., Vancouver, British Columbia, Canada, V6P 6T7
Web	www.zaber.com
Email	Please visit our website for up to date email contact information.

The original instructions for this product are available at <https://www.zaber.com/manuals/TSB>.

Product Drawing

Specifications

Specification	Value	Alternate Unit
Microstep Size (Default Resolution)	10 μm	
AutoDetect	No	
Maximum Centered Load	100 N	22.4 lb
Maximum Moment (Pitch)	40 N·cm	56.6 oz·in
Maximum Moment (Roll)	125 N·cm	177.0 oz·in
Maximum Moment (Yaw)	40 N·cm	56.6 oz·in
Motor Type	None	
Guide Type	Ball bearing	
Axes of Motion	1	
Stage Parallelism	< 100 μm	< 0.003937"
Operating Temperature Range	0 to 75 °C	
CE Compliant	Yes	
Vacuum Compatible	No	

Comparison

Part Number	Travel Range	Mounting Interface	Weight
TSB28E	28 mm (1.102")	1/4-20 threaded holes	0.47 kg (1.036 lb)
TSB28M	28 mm (1.102")	M6 threaded holes	0.47 kg (1.036 lb)
TSB60E	60 mm (2.362")	1/4-20 threaded holes	0.56 kg (1.235 lb)
TSB60M	60 mm (2.362")	M6 threaded holes	0.56 kg (1.235 lb)
TSB28E14	28 mm (1.102")	1/4-20 threaded holes	0.47 kg (1.036 lb)
TSB28M14	28 mm (1.102")	M6 threaded holes	0.47 kg (1.036 lb)
TSB60E14	60 mm (2.362")	1/4-20 threaded holes	0.56 kg (1.235 lb)
TSB60M14	60 mm (2.362")	M6 threaded holes	0.56 kg (1.235 lb)
TSB28E-MH25	25 mm (0.984")	1/4-20 threaded holes	0.48 kg (1.058 lb)
TSB28M-MH25	25 mm (0.984")	M6 threaded holes	0.48 kg (1.058 lb)
TSB60E-MH50	50 mm (1.969")	1/4-20 threaded holes	0.72 kg (1.587 lb)
TSB60M-MH50	50 mm (1.969")	M6 threaded holes	0.72 kg (1.587 lb)

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