

EXTENDED CATALOG PRODUCT

TWIN PROFILE RAIL STAGE WITH ENCLOSED DESIGN

The TRS Twin profile rail stage with enclosed design is built from the ground up to be highly rigid and very accurate. Available in 100 & 165 sizes, load up to 6.0 kN (1,349 lbf).

TRS



Endurance Technology features are designed for maximum durability to provide extended service life.

ORETAINED STAINLESS STEEL DUST BANDSO

- •Retained exterior dust band keeps contaminants from entering the actuator interior, protecting components for reduced maintenance and increased uptime
- Made of fatigue resistant, flexible and corrosion resistant stainless steel

•Magnetically retained band Dust Phans

 Magnetically retained ban is not subject to wear as are other mechanically retained systems



⇒YOUR MOTOR HERE∢

•Specify the motor or gearbox to be installed, with in-line or reverse parallel mounting, and the TRS actuator ships with the proper mounting hardware.

DESIGNED FOR XYZ SYSTEMS

•The TRS has the ability to mount carrier to carrier with no additional mounting plates

∘HIGH POSITIONAL ACCURACY∘

SCREW ACCURACY

⇒HIGH RIGIDITY•

•Single body frame with thick aluminum base for high rigidity

OBREATHER/PURGE PORTSO

 Purge Port: positive pressure with air lines and filters insure that contaminants do not enter the interior of the actuator.

⇒CLEAN SMOOTH OPERATION∘

- •Smooth and flat surface to create the cleanest sealing design in the industry
- •Wiper and seal are integrated in carrier design to help with clean and smooth operation

Applications:

- Machine centers
- Machine tools
- Drilling
- Cutting
- Laser positioning
- Material handling systems
- Pick & place
- X Y Z axis
 (2 & 3 axis configurations)
- and more



Options

- •Roller screw
- Zero backlash bearings
- •Zero backlash nut and screw
- •Fixed switch holes on housing side

TWIN PROFILE RAIL STAGE WITH ENCLOSED DESIGN

Specifications

Dimensions

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189.00 [7.44]

Dimensions in mm [dimensions in brackets = inches]



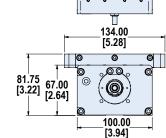
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TRS SIZE	MA)	MA) STR		Mx		/ Mz	Fz / Fy		BN		RN	
E	mm	in	N-m	lb-in	N-m	lb-in	N	lbf	N	lbf	N	lbf
100	1600	63.0	125	1106	240	2124	5100	1147	2500	562	2500	562
165	2438	95.0	291	2575	281	2487	5100	1147	2500	562	2500	562

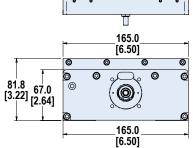
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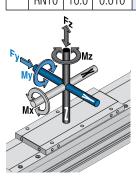
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SIZE: **165**

TRS SIZE	SCREW CODE					XIAL RANCE	DLR @ 1M Rev		
		mm/rev	mm/300mm	in/ft	mm	in	N	lbf	
	BN04	4.0	0.100	0.0039	0.07	0.0028	5,500	1236	
100	BN05	5.0	0.100	0.0039	0.07	0.0028	12,000	2698	
	BN10	10.0	0.052	0.0020	0.05	0.0020	5,400	1214	
165	BN04	4.0	0.100	0.0039	0.07	0.0028	5,500	1236	
	BN05	5.0	0.100	0.0039	0.07	0.0028	12,000	2698	
	BN10	10.0	0.052	0.0020	0.05	0.0020	5,400	1214	
	RN05	5.0	0.010	0.0004	0.03	0.0012	53,600	12050	
	RN10	10.0	0.010	0.0004	0.03	0.0012	47,200	10611	









COMPLETE INFORMATION, SIZING ASSISTANCE AND SOLID MODELS **AVAILABLE: CONTACT TOLOMATIC**



EXCELLENCE IN MOTION

QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 = Certified site: Hamel, MN

COMPANY WITH

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