



STANDARD FEATURES	
Stage	Rotary Stage
Travel	360 Degrees Continuous
Motor	Frameless Direct Drive Motor
Feedback	Non-Contact Optical Encoder
Scale	20um Pitch Stainless Steel Ring
Resolution	1Vp-p Analog Output (see specifications) Digital Output Options: (see specifications)
Runout	Axial: < 0.5 um Available (see specifications) Radial: < 0.5 um Available (see specifications)
Sensors	Integrated Home Mark
Bearings	Air Bearing
Cables	High Flex, 10M Cycle, 3m Length
Structure	Anodized Aluminum 6061-T6 Optional: Stainless Steel
Environment	Standard Optional: Clean Room
Temperature	0°C to 50°C
Humidity	10% to 80% Non-Condensing
Precision	6-D Nano Precision™ Test Methods

DIAMETER	LENGTH	WIDTH	HEIGHT	A (inch)	B (inch)	C (inch)	D	E	F	G	H	I	J	K	L	M	N	O
125	145	145	150	4	4	3	145	19	72.5	100	75	50	77	40	68	M6 or 1/4-20	M6	M5

\* All units millimeters unless otherwise noted.  
 \* All hole patterns centered on thru hole at center of stage diameter.  
 \* Additional sizes available upon special request.

ALIO INDUSTRIES PROPRIETARY INFORMATION  
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DRAWN	NBROWN	5/12/2012	TITLE		
CHECKED					
Tolerances: Surface Roughness: x.x ± .05 in [1.3 mm] x.xx ± .01 in [0.25 mm] x.xxx ± .005 in [0.13 mm] ✓ RMS MAX. Angles ± 0.5°			AI-TM-(DIAMETER)R-AB		
MATERIAL					
FINISH		SEE NOTES	SIZE	DWG NO	REV
			B	0010-08012	001
SCALE			ALIO STD TEMPLATE - REV 006	SHEET	1 OF 1

NOTE: MODEL AI-TM-125R-AB SHOWN