



## STANDARD FEATURES

<b>Stage</b>	Rotary Stage
<b>Travel</b>	360 Degrees Continuous
<b>Motor</b>	Frameless Direct Drive Motor
<b>Feedback</b>	Non-Contact Optical Encoder
<b>Scale</b>	20um Pitch Stainless Steel Ring
<b>Resolution</b>	1Vp-p Analog Output (see specifications) Digital Output Options: (see specifications)
<b>Runout</b>	Axial: < 25 um Available (see specifications) Radial: < 25 um Available (see specifications)
<b>Sensors</b>	Integrated Home Mark
<b>Bearings</b>	Angular Contact (Duplex Pair)
<b>Cables</b>	High Flex, 10M Cycle, 3m Length
<b>Structure</b>	Anodized Aluminum 6061-T6 Optional: Stainless Steel
<b>Environment</b>	Standard Optional: Clean Room
<b>Temperature</b>	0°C to 50°C
<b>Humidity</b>	10% to 80% Non-Condensing
<b>Precision</b>	6-D Nano Precision™ Test Methods

DIAMETER	HEIGHT	LENGTH	A (inch)	B (inch)	C	D	E	F	G (degrees)	H	I	J	K	L	M	N
80	50	96	60 mm	68 mm	8	10	50	35	0	n/a	0	35	32.5	M6 or 1/4-20	M4	M4
104	80	123	80 mm	90 mm	32	15	50	80	0	67	30	46	32.5	M6 or 1/4-20	M4	M4
154	65	173	5	5	32	15	50	100	0	67	50	70	40	M6 or 1/4-20	M5	M4
208	110	228	6	7	75	25	76.2	150	22.5	100	100	0	75	M8 or 5/16-18	M6	M6
240	44	260	7	8	104	25	n/a	200	0	100	100	0	75	M8 or 5/16-18	M6	n/a
312	80	332	10	11	75	25	n/a	240	22.5	150	150	0	120	M8 or 5/16-18	M8	n/a

\* All units millimeters unless otherwise noted.

\* All hole patterns centered on thru hole at center of stage diameter.

# M5 dowel pins on the AI-TM-56R are rotated 90 degrees relative to dowel pins shown on this datasheet.

ALIO INDUSTRIES PROPRIETARY INFORMATION  
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TITLE

# AI-TM-(DIAMETER)RA

SIZE DWG NO

B 0010-08015

FINISH SEE NOTES SCALE ALIO STD TEMPLATE - REV 006 SHEET 1 OF 1

REV

E4

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NOTE: MODEL AI-TM-154RA SHOWN