



## 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>	Crossed Roller Bearings
<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**	OPTIONAL HEIGHTS**	LENGTH	A	B	C	D	E	F	G (degrees)	H	I	J	K	L	M	N
56	62	75 & 102	72	46	46	8	10	n/a	30	0	30	17	25	22.5#	M4	M3	n/a
80	50	64 & 90	96	60	68	8	10	50	35	0	n/a	0	35	32.5	M6 or 1/4-20	M4	M4
104	80	68 & 106	123	80	90	32	15	50	80	0	67	30	46	32.5	M6 or 1/4-20	M4	M4
154	66	58 & 92	173	101.6	50.8	12.7	n/a	n/a	100	0	90	90	0	40	M6 or 1/4-20	M5	n/a
208	110	98	228	152.4	177.8	75	25	76.2	150	22.5	100	100	0	75	M8 or 5/16-18	M6	M6

\* All units millimeters unless otherwise noted.

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

\*\* Standard stages have the height listed. Additional stage options are available at the listed "Optional Heights", see specifications sheet for applicable stage torques.  
# M5 dowel pins on the AI-TM-56R are rotated 90 degrees relative to dowel pins shown on this datasheet.

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TITLE

# AI-TM-(DIAMETER)R-(OPTIONAL HEIGHT)

SIZE DWG NO

B 0010-08010

REV 002

FINISH SEE NOTES SCALE

ALIO STD TEMPLATE - REV 006 SHEET 1 OF 1

NOTE: MODEL AI-TM-104R SHOWN