



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: < 25 um Available (see specifications) Radial: < 25 um Available (see specifications)
Sensors	Integrated Home Mark
Bearings	Crossed Roller Bearings
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	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	REV
B	0010-08010	001

FINISH	SCALE	SHEET	OF
SEE NOTES	2	1	1

NOTE: MODEL AI-TM-104R SHOWN