



STANDARD FEATURES

Stage	Z Stage
Travel	24mm to 50mm
Motor	Voice Coil or Ironless Core Linear Motor
Feedback	Non-Contact Optical Encoder
Scale	Gold Tape Scale Optional: Near Zero CTE ZeroMet
Resolution	1Vp-p Analog Output (5nm with 4096 Interpolation) Digital Output Options: 5um, 1um, 0.5um, 0.2um, 100nm, 50nm, 20nm**, 10nm**, and 5nm** (* ** Reduced Speeds Apply)
Sensors	Integrated Home and End of Travel Limits
Bearings	High Precision Crossed Roller Bearings
Counterbalance	Frictionless Pneumatic Cylinder
Cables	High Flex, 10M Cycle, 3m Length
Structure	Anodized Aluminum 6061-T6 Optional: Stainless Steel
Environment	Standard Optional: Clean Room and Vacuum (10-6 Torr)
Temperature	0°C to 50°C
Humidity	10% to 80% Non-Condensing
Precision	6-D Nano Precision™ Test Methods

MOTOR	TRAVEL	FORCE	LENGTH	WIDTH	HEIGHT	A	B	C	D	E
VC	6	24N	165	96	98	55	84	14.3	55	30
VC	24	11N	165	96	98	55	84	14.3	55	30
LM	50	15N	165	96	136	82	104	39.6	80.25	40

* All units millimeters unless otherwise noted. Force units are Newtons.

* Motor type is voice coil (VC) or linear brushless motor (LM) designator in model number.

* All hole patterns centered on M5 dowel pin hole at center of stage (if not otherwise indicated).

ALIO INDUSTRIES PROPRIETARY INFORMATION

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TITLE

AI-(MOTOR)-(TRAVEL)00-(FORCE)-Z-CB

SIZE DWG NO

B 0010-08004

REV 003

FINISH SEE NOTES SCALE

ALIO STD TEMPLATE - REV 006 SHEET 1 OF 1

NOTE: MODEL AI-VC-2400-11N-Z-CB SHOWN.