

## Optomechanics

Mounting Basics

Optical Rails

Mirror Mounts

Lens Mounts

Filter Mounts

Rotation Mounts

Adapters

V-Mounts

Apertures & Iris Diaphragms

Lens Tubes

Cage Systems

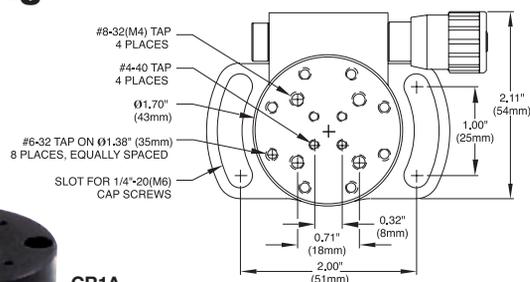
## Worm Driven Continuous Rotation Stage



CR1



CR1A



The CR1 rotation stage provides high precision along with low backlash. The low backlash is achieved using an antibacklash gear in the worm gear mechanism. The added ability to stack our line of translation stages on the rotation platform makes this stage useful in any lab.

- Driven by Fine Pitch Worm Gear Providing 360° Continuous Motion
- Graduation Marks in 2° Increments
- Vernier Scale Offers 5arcmin Resolution
- Resolution: 15° per Revolution of Adjuster Knob
- Application Tested to 25lbs Vertical Load
- Backlash Free
- Compatible for Mounting MS1 and T12 Series Translation Stages (Using Adapter Plate)
- Compatible With PM1/PM2 Prism Mounting Hardware (Not Included)

The CR1A is an adapter plate, which allows the following mounts to be connected to the CR1 rotation stage: PH Series of Post Holders (see page 79), T12 Series of 1/2" Mini Translators (see page 258), and the GN Series of Goniometers (see page 181). It should be noted that the MS Series of 1/4" Mini Translators (see page 256) connect directly to the CR1 Continuous Rotation Stage and do not require the CR1A adapter plate.

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
CR1	CR1/M	\$ 299.00	£ 188.40	€ 278.10	¥ 2,855.50	Continuous Rotation Stage
CR1A	CR1A/M	\$ 18.90	£ 11.90	€ 17.60	¥ 180.50	Rotation Stage Adapter Plate
PM1	PM1/M	\$ 9.50	£ 6.00	€ 8.80	¥ 90.70	Small Clamping Arm
PM2	PM2/M	\$ 14.70	£ 9.30	€ 13.70	¥ 140.40	Large Clamping Arm

## Motorized Rotation Stage



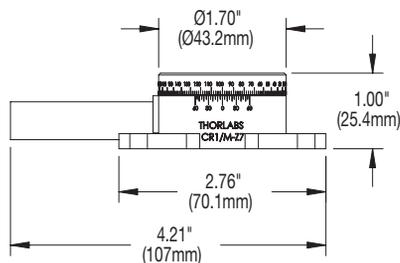
CR1-Z7



TDC001

**DC Motor Controller**  
See Page 352

The CR1-Z7 motorized rotation stage offers high-precision, continuous motion in a sturdy, compact package. The backlash-free worm gear design, coupled with a high-resolution optical encoder, provides the rotational precision required in optical laboratories. The high torque 12VDC Servo Motor supplies ample power for rotating vertical loads of up to 25lbs.



**Receive a 10% Discount on the TDC001 When Ordering Both the CR1-Z7 and TDC001 Together (CR1-7E)**

- Continuous 360° Rotation
- Low Backlash Design
- High Torque DC-Servo Motor With Gear Head & Optical Encoder
- High Count Optical Encoder (12,288 pulses/rev)
- Angle Readout of 2° Increments Plus a Vernier Scale Provides 5arcmin Resolution
- Application Tested to 25lbs Vertical Load

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
CR1-Z7*	CR1/M-Z7*	\$ 800.00	£ 504.00	€ 744.00	¥ 7,640.00	Motorized Rotation Stage
CR1-Z7E*	CR1/M-Z7E*	\$ 1373.75	£ 865.50	€ 1,277.60	¥ 13,119.30	Rotation Stage With Servo-Motor Controller
CR1A	CR1A/M	\$ 18.90	£ 11.90	€ 17.60	¥ 180.50	Rotation Stage Adapter
TPS001**	TPS001**	\$ 25.50	£ 16.10	€ 23.70	¥ 243.50	15V Power Supply Unit for a Single T-Cube

\*Price includes 10% discount on the drive module TDC001. \*\*Universal Design, Imperial and Metric Compatible

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