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TECHNOLOGY GROUP

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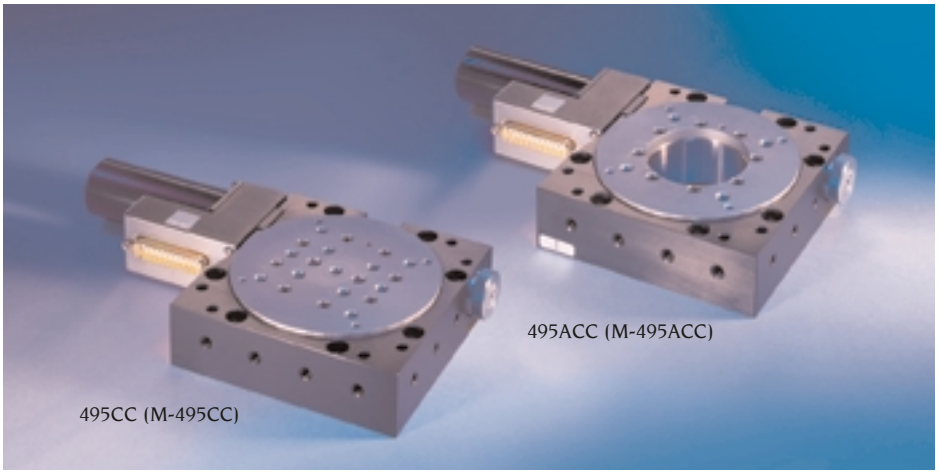
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Expert team | Trust guarantee | 100% satisfaction

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Find the *Newport 495CC* at our website: *Click HERE*

Rotation Stages



Key Features

- *Low profile rotation stage with versatile mounting holes*
- *Compliant loaded worm-gear ensures backlash-free continuous rotation*
- *Worm mounted rotary encoder provides 0.001° resolution*

Motion Controller Options

For optimum performance and seamless compatibility, we recommend using one of the following Motion Controllers/Drivers:

ESP7000
(*page* 1108)



MM4006
(*page* 1113)



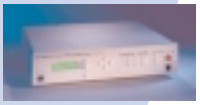
ESP6000 *with* UNIDRIV6000
(*page* 1119)



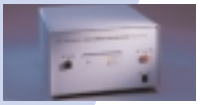
ESP6000 *with* DCIB
(*page* 1126)



ESP300
(*page* 1129)



ESP100
(*page* 1132)



The 495CC rotation stages are a cost-effective performance alternative to the precision URM100 rotation stages. They employ a low-profile design with highly flexible mounting grid for horizontal or vertical mounting.

495 stages incorporate a hardened and ground worm compliantly loaded against a precision cut self-lubricating worm wheel for continuous smooth travel. Compliant loading minimizes inherent drivetrain backlash, limiting it to 0.015°. The worm wheel is held in a large diameter crossed-roller bearing to minimize wobble and play.

A precision optical encoder is hard mounted to the worm and reads position to 0.001° resolution. Coarse angular readout is provided by a stage mounted scale graduated in degrees. The 495CC includes limit switches and a home switch. If desired, the limit switches can be disabled to provide continuos 360° rotation.

Design Details

Base Material	Stainless steel with aluminum body
Bearings	Crossed-roller bearings
Drive Mechanism	Ground worm gear with self compliant preload
Worm Gear Ratio	1:180
Feedback	Worm mounted rotary encoder, 2,000 pts/rev., index pulse
Limit Switches	Optical, at ± 170°, can be disabled for continuous 360° rotation
Origin	Optical
Motor	DC servo motor UE31CC
Cable	3 m long cable included
Weight [lb (kg)]	4.4 (2)

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Specifications

Travel Range	360° continuous[1]
Resolution	0.001°
Minimum Incremental Motion	0.003°
Uni-directional Repeatability	0.006°
Reversal Value (Hysteresis)	0.015°
Origin Repeatability	0.002°
Absolute Accuracy	0.05°
Maximum Speed	2.5°/s
Normal Load Capacity (N)	250
Wobble (µrad)	150

1) With disabled limit switches

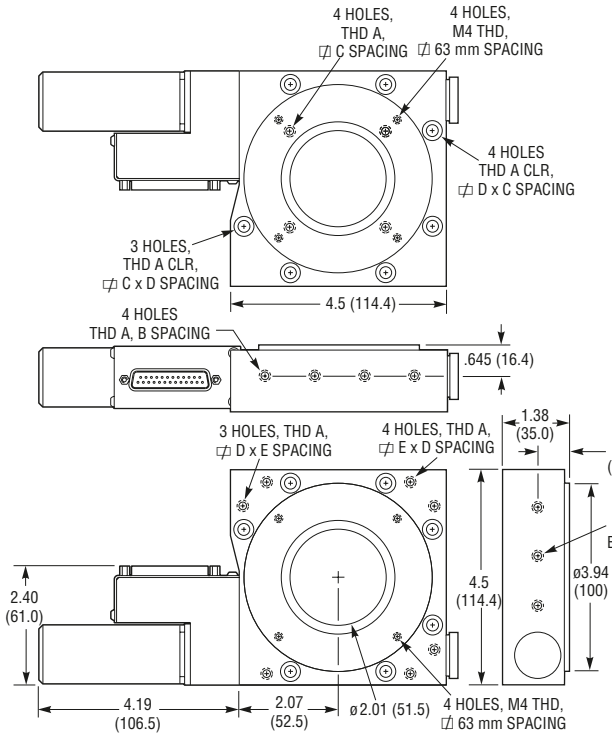
Ordering Information

Model (Metric)	Description	Price
495CC (M-495CC)	Solid Platform Version	$2,297
495ACC (M-495ACC)	Aperture Version	$2,297

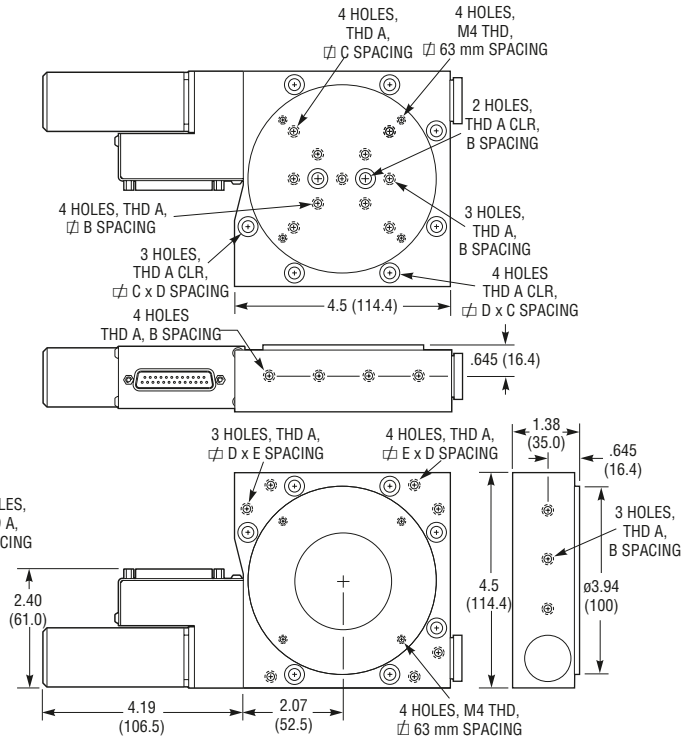
Dimensions

	Thread		Dimension [in. (mm)]		
Model (Metric)	A	B	C	D	E
495CC (M-495CC)	1/4-20 (M6)	1.000 (25.0)	2.000 (50.0)	4.000 (100.0)	3.000 (75.0)
495ACC (M-495ACC)	1/4-20 (M6)	1.000 (25.0)	2.000 (50.0)	4.000 (100.0)	3.000 (75.0)

MODEL 495ACC/M-495ACC



MODEL 495CC/M-495CC



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We're here to make your life easier. How can we help you today?

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