

## 200mm x 200mm XY Stage Crossed Roller Bearing



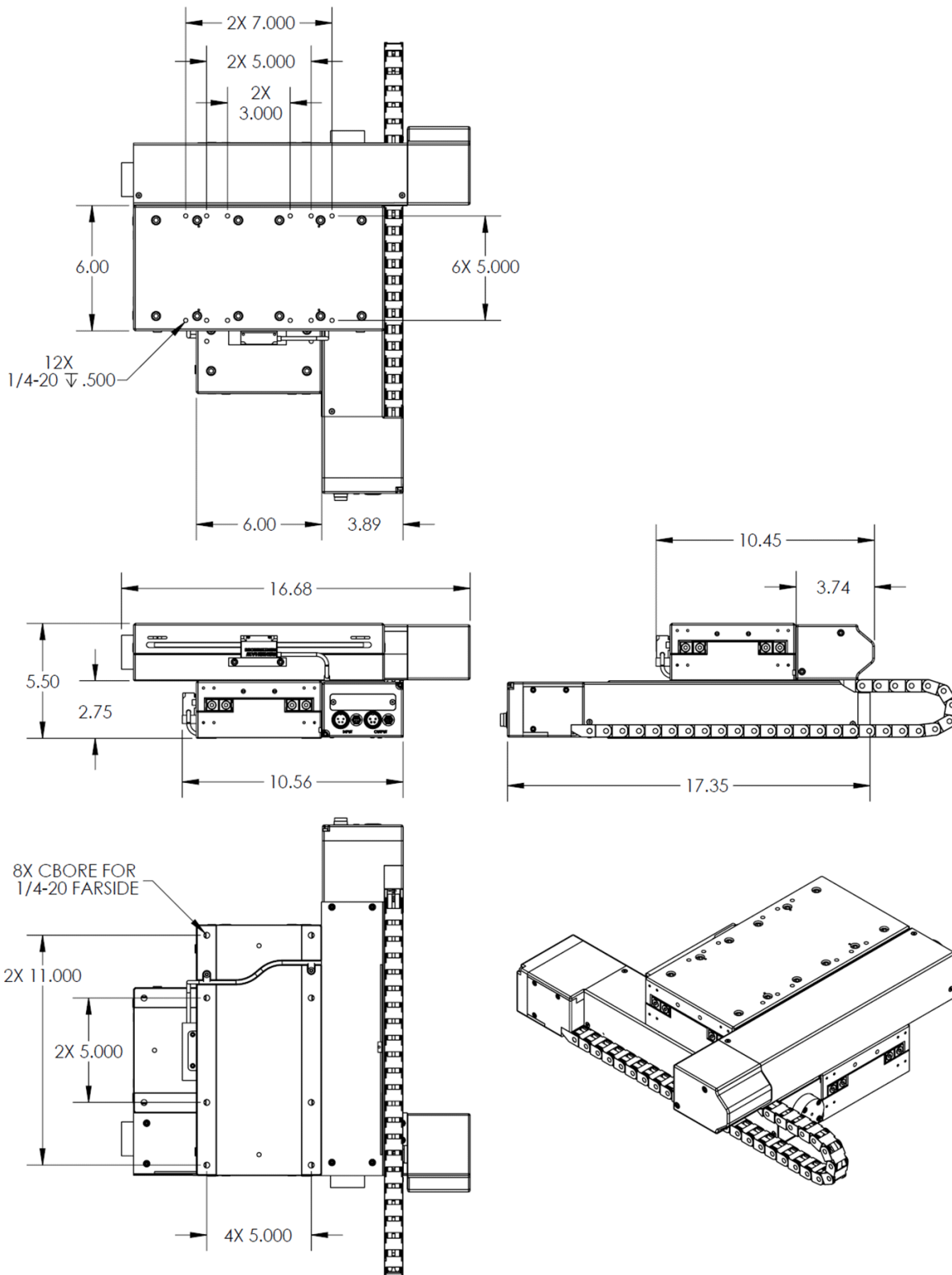
This 200mm x 200mm stage is an example of an OEM assembly based on our CS crossed roller bearing stage series. In place of the standard anodized aluminum, a nickel coating is used to make the assembly safe for ESD sensitive microelectronic components. The two axes are aligned orthogonally to better than  $\pm 5$  arcsec ( $\pm 25\mu\text{rad}$ ). IMS MDrive step motors with integrated controllers simplify system integration, with only power and RS422/485 serial communication required for closed loop positioning to the  $0.5\mu\text{m}$  resolution linear encoders. A power and serial communication output are provided on the connector panel to support an MDrive equipped Z axis stage. A similar stage assembly with standard 2 phase stepper motors without integrated controllers is also being produced.

Specifications	
Travel	200mm x 200mm
Encoder Resolution	$0.5\mu\text{m}$
Accuracy	$\pm 10.0\mu\text{m}$ ( $\pm 5.0\mu\text{m}$ per 25mm)
Bi-Directional Repeatability	$\pm 0.5\mu\text{m}$
Straightness	$16.0\mu\text{m}$ ( $2.0\mu\text{m}$ per 25mm)
Flatness	$16.0\mu\text{m}$ ( $2.0\mu\text{m}$ per 25mm)
Orthogonality	$\pm 5$ arcsec



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