

XYA™ Integrated Low Profile XY Stage



Dover Motion

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Features

- : : Low profile, aesthetic design with concealed motors
- : : No external moving cables
- : : Popular for applications where there is a high level of end user to stage interaction

Description

A traditional XY stepper motor stage has four flexing cables which hang off the two stepper motors that protrude from the sides of the stage. By embedding the electronics, DOVER MOTION is able to conceal the controller and motors within the XY stage and create a clean, compact design.

This design has two benefits; reducing the cable count from four moving to one stationary, and more importantly, eliminating potential operator pinch points through the use of innovative cover designs. The clean visual appearance is reinforced by all the metal parts and faster hardware being black anodized. The resulting stage is the XYA™ Stage Series.

Specifications

Specifications	XYA-100-100	XYA-200-200	XYA-200-325
Travel (mm)	100 x 100	200 x 200	200 x 325
Accuracy (µm TIR)	50	50	30 / 50
Bidirectional Repeatability (±µm)	5	5	5
Velocity (mm/s)	20	20	20 / 35
Load Capacity (Kg)	10	10	10
Flatness (µm TIR)	20	6	6 / 10
Straightness (µm TIR)	50	10	10 / 17
Pitch & Yaw (arc-sec TIR)	60	30	30 / 50
Orthogonality (arc-sec)	50	10	10