



Z Wedge Series: Vertical Positioning Stages

Z Wedge Stages are designed for applications requiring precise vertical positioning. Designed with precision crossed rollers and a high-precision ball screw, Z Wedge Stages provide a high-accuracy platform with high stiffness for a variety of applications.

Z Wedge Stages offer designers unobstructed platform access from all sides of the stage (including the top) allowing easy mounting in conveyor and gantry platforms.





▶ Z Wedge Series: Precise Vertical Motion

When to Use:

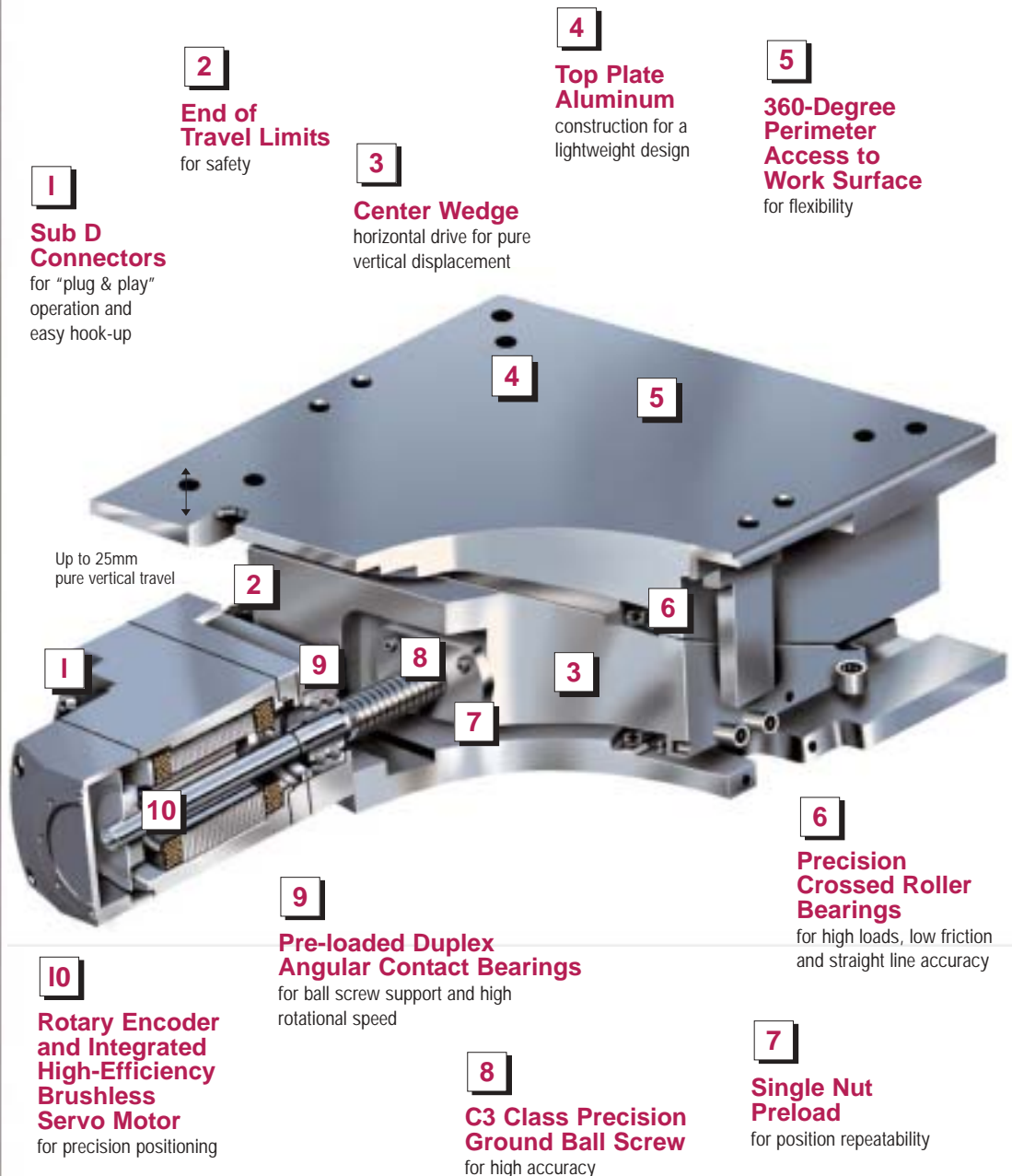
- ▶ Precision vertical motion
- ▶ Short travel
- ▶ Sub-micron repeatability
- ▶ Smooth motion

Applications:

- ▶ Auto focusing
- ▶ Electronic probing
- ▶ Part insertion
- ▶ Lifting/Leveling platforms
- ▶ Metrology/Part inspection

High Accuracy, Vertical Positioning

The Z Wedge provides vertical motion by driving the center wedge horizontally. As the center wedge moves, the top plate is actuated straight up and down without any horizontal displacement. Designed using a lightweight aluminum alloy, Z Wedge Stages provide precise movement, any way you need it.



1
Sub D Connectors
for "plug & play" operation and easy hook-up

2
End of Travel Limits
for safety

3
Center Wedge
horizontal drive for pure vertical displacement

4
Top Plate Aluminum
construction for a lightweight design

5
360-Degree Perimeter Access to Work Surface
for flexibility

Up to 25mm
pure vertical travel

10
Rotary Encoder and Integrated High-Efficiency Brushless Servo Motor
for precision positioning

9
Pre-loaded Duplex Angular Contact Bearings
for ball screw support and high rotational speed

8
C3 Class Precision Ground Ball Screw
for high accuracy

6
Precision Crossed Roller Bearings
for high loads, low friction and straight line accuracy

7
Single Nut Preload
for position repeatability