

# XYZ axes | XYZ65N81E26

## Linear Piezo Nanopositioning Stage ( Closed-loop )



### Characteristics >>

- Motion in X, Y, Z
- Travel to  $\pm 12.5\text{mm}/\text{axis}$
- Accuracy up to  $1.5\mu\text{m}$
- Nanoscale resolution
- Closed-loop servo sensor (incremental encoder)

### Applications >>

- Semiconductor testing
- Wafer testing
- Nano imprint
- Industrial precision positioning, etc

## Introduction

Considering the user's requirement of high precision and long travel, the XYZ65N81E26 piezo screw motion platform has been specially designed and developed by CoreMorrow. The platform is equipped with an incremental encoder, which can precisely control the travel and accuracy, and the accuracy can reach  $1.5\mu\text{m}$ .



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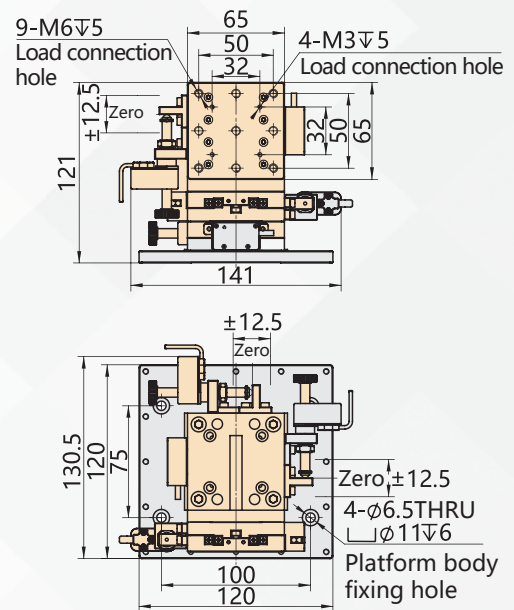
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## Technical Data >>

Type	XYZ65N81E26	Units
Active axes	X, Y, Z	
Integrated sensor	Incremental encoder	
Travel range	$\pm 12.5$	mm
Speed limit	50	$\mu\text{m/s} \pm 20\%$
Resolution	80	$\text{nm} \pm 20\%$
Linearity	1.5	$\mu\text{m} \pm 20\%$
Repeatability	1.5	$\mu\text{m} \pm 20\%$
Load capacity	1.5	kg
Operating	0~50	$^{\circ}\text{C}$
Mass with cable	2.6	$\text{kg} \pm 5\%$
Material	Al, Steel	
Cable length	1.5	$\text{m} \pm 10\text{mm}$
Recommended Controller	E53.D1E	

## Drawing >>



## Recommended controller >>

E53.D1E Piezo Servo Controller is developed and produced by CoreMorrow to drive piezo motor products like XYZ65N81E26 Linear piezo nanopositioning Stage. E53.D1E Piezo Servo Controller can be connected and communicated with the upper computer via serial port. Users can set speed and other parameters via software.



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