

6 axes | H61.XYZTR0S/K-B1 Piezo XYZ/Tip/Tilt/Rotation Stage



Introduction

H61.XYZTROS/K-B1 6-Axis Piezo Tilt Stage can produce six axes ultra-precision motion, suitable for static sixaxis linear nano-positioning and angular nano-radian deflection. With a 50mm×50mm through hole in the center, it can be used for transmitted light applications.

Characteristics >>

- Motion in X, Y, Z, θx, θy, θz
- Load capacity to 10kg
- Static use
- Optional closed loop sensor

Applications >>

- Optical beam scanning
- Light path adjustment
- Graphical stability
- Interference/metering
- Prism position adjustment
- Optical applications
- Transmitted light applications, etc.
- Six-axis ultra-precision position adjustment



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Technical Data >>

Туре	H61.XYZTR0S-B1	H61.XYZTR0K-B1	Units
Active axes	Х, Ү, Ζ, Өх, Өу, Өz	Х, Ү, Ζ, Өх, Өу, Өz	
Driving channels	7	7	
XYZ Travel(0~120V)	XY, ±32/axis, Z: 28	XY, ±32/axis, Z: 28	μm±20%
XYZ Travel(0~150V)	XY, ±40/axis, Z: 35	XY, ±40/axis, Z: 35	μm±20%
Travel in θxθy(0~120V)	±0.28/axis	±0.28/axis	mrad±20%
Travel in θxθy(0~150V)	±0.35/axis	±0.35/axis	mrad±20%
Travel in θz(0~120V)	±0.12	±0.12	mrad±20%
Travel in θz(0~150V)	±0.15	±0.15	mrad±20%
Closed/open-loop resolution in θx, θy	0.02	0.01	μrad
Closed/open-loop resolution in θz	0.02	0.01	μrad
Closed/open-loop resolution in XY	2.5	1	nm
Closed/open -loop resolution in Z	1	0.5	nm
Linearity	0.2	0.2	%F.S.
Repeatability	0.1	0.1	%F.S.
Unloaded resonant frequency	350	350	Hz±20%
Resonant frequency at loading	50 (@10.5kg)	50 (@10.5kg)	Hz±20%
Sensor	SGS	-	
Load capacity	10.5	10.5	kg±5%
Central aperture	50×50	50×50	mm
El. capacitance	XYZ: 29/axis, θxθy: 15/axis, θz: 7	XYZ: 29/axis, θxθy: 15/axis, θz: 7	μF±20%
Mass	< 4	< 4	kg±5%
Material	Steel, aluminum	Steel, aluminum	
Operating temperature ^[1]	-20~80	-20~80	°C
Cable length ^[2]	1.5	1.5	m±10mm
Sensor/voltage connector ^[2]	D-SUB	D-SUB	

Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

[1] Custom ultralow temperature and ultrahigh vacuum versions are available.

[2] Custom cable length and connector is available.

Note: The parallelism of the moving platform is about 20µm, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing >>



Recommended Controllers >>



E51.D7S 7 channels, output voltage 0~120V Driving 6-axis moiton piezo stage Software control



E01.A9 1~9 channels, Open loop Analog input/ Software control Ave current 291mA



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