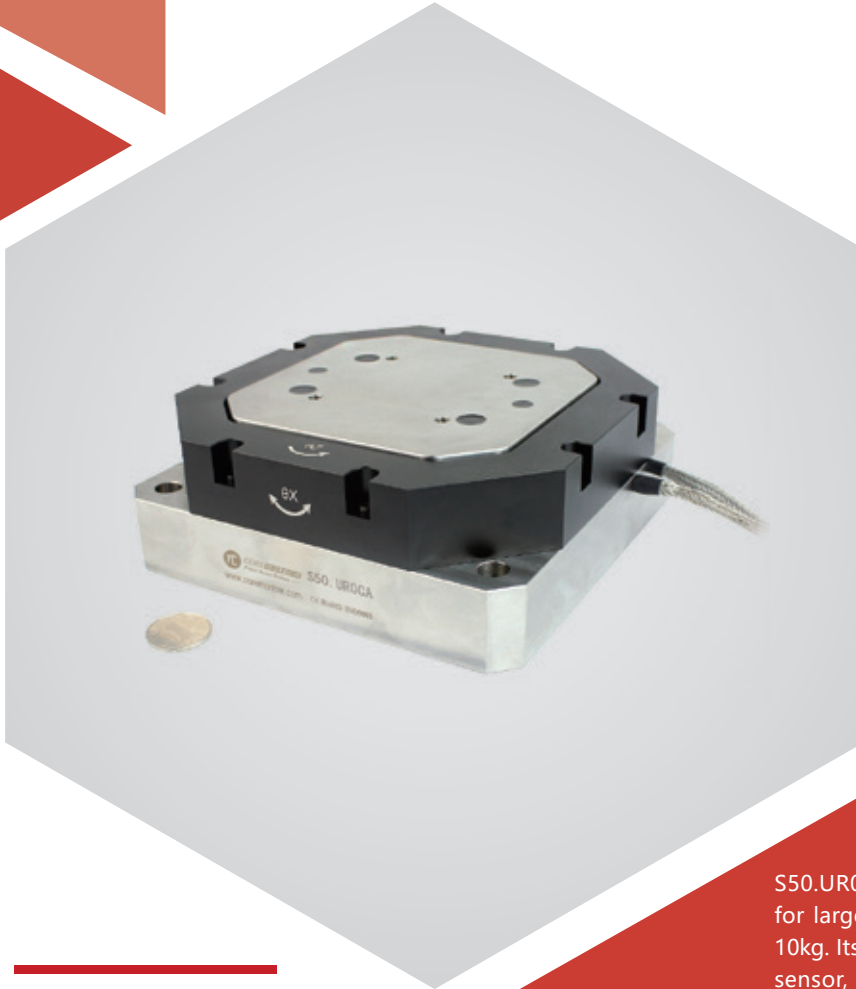


θ_x/θ_z axes | S50.UR0C/KA

Piezo Tilt/Rotation Stage



Introduction

S50.UR0C/KA piezo tilt/rotation platform is designed for large load applications, and load capacity is up to 10kg. Its closed-loop version utilizes capacitive feedback sensor, and its unloaded resonant frequency is up to 1kHz.

Characteristics >>

- θ_x tilt and θ_z rotation
- Large load capacity
- High frequency
- Optional capacitive feedback sensor

Applications >>

- Beam scanning
- Interference/metering
- For research
- Heavy load motion experiment
- Vibration simulation system



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Technical Data >>

Type	C-Closed loop K-Open loop	S50.UR0CA	S50.UR0KA	Units
Active axes		θ_x, θ_z	θ_x, θ_z	
Nominal travel range(0~120V)		0.24/axis	0.24/axis	mrad $\pm 10\%$
Travel range(0~150V)		0.3/axis	0.3/axis	mrad $\pm 10\%$
Sensor		CAP	-	
Resolution		0.02	0.01	μrad
Linearity		0.3	-	%F.S.
Repeatability		0.2	-	%F.S.
Unloaded resonant frequency		1000	1000	Hz
Operating frequency (@5kg, 0.1mrad)		≤ 400	≤ 400	Hz $\pm 20\%$
El.capacitance		14.4/axis	14.4/axis	$\mu\text{F}\pm 10\%$
Operating temperature ^[1]		10~50	10~50	$^{\circ}\text{C}$
Material		Al, Steel	Al, Steel	
Load capacity		10	10	kg
Cable length ^[2]		1.5	1.5	m $\pm 10\text{mm}$
Mass		9.5	9.5	kg $\pm 5\%$

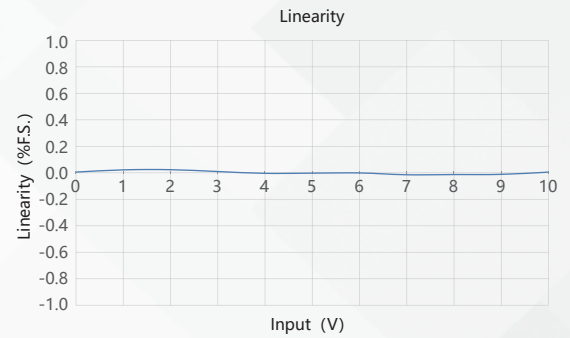
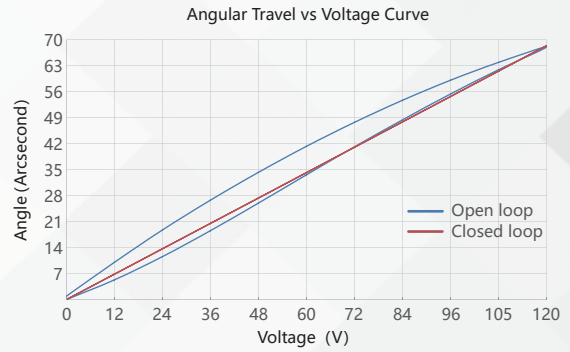
Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25 $^{\circ}\text{C}$.

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

[2] Custom cable length and connector is available.

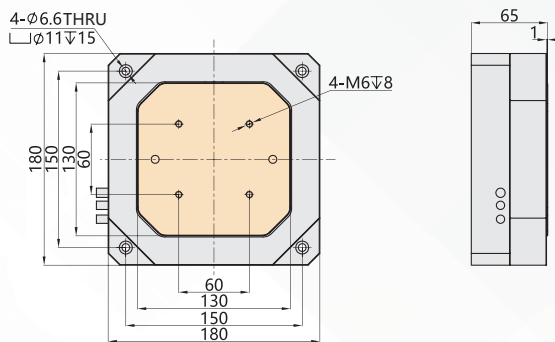
Note: The parallelism of the moving platform is about 20 μm , and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Curves >>




Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

Drawing >>



Recommended Controllers >>



E00.D3
3 channels output, with constant voltage output, capacitive sensor, digital or analog control, with button operation



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