

Make Your Motion and Control More Accurate!

Introduction

P92.X25S/K fast tool positioning stage is a fast tool microfeed stage designed for ultra-precision turning. It adopts direct-driving structure, features large load capacity, high frequency, and optional capacitive sensor

with nano-scale positioning accuracy.

X axis | P92.X25S/K Fast Tool Positioning Stages



- Active axes X
- Open loop resolution 0.5nm
- Travel range to 22µm@120V
- Optional sensor
- Direct drive

Applications >>

- Diamond micro-feeding
- Precision processing
- High-speed tool control
- Workpiece positioning
- Light guide plate mold processing
- FTS fast tool servo turning system
- Precision machining and grinding
- Optical element processing
- Precise positioning of Large load workpiece



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P92. X25K

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Technical Data >>

Type S-Closed loop K-Open loop	P92.X25S	P92.X25K	Units
Active axis	Х	Х	
Travel range (0~120V)	22	22	μm±10%
Travel range (0~150V)	28	28	μm±10%
Integrated sensor	SGS	-	
Resolution	1	0.5	nm
Unloaded resonant frequency	5000	5000	Hz±20%
Unloaded step time	0.3	0.3	ms
Stiffness	50	50	N/µm±20%
Blocking force	1000	1000	Ν
El. capacitance	7.2	7.2	μF±10%
Size(L×W×H)	99×80×25	99×80×25	mm
Mass	1080	1080	g±5%
Operating temperature ^[1]	-25~+80	-25~+80	°C
Material	Aluminium, steel	Aluminium, steel	
Cable length ^[2]	1.5m or longer	1.5m or longer	m±10mm

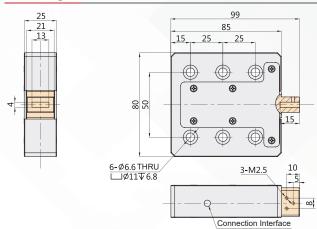
Note: Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

[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 >>



E01.D1 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development

E53 Small size, 60mA RS-232/RS-422/USB interface Software secondary development



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