

# Zaxis P76.Z200S/K Piezo Objective Scanner



## Introduction

P76.Z200 piezoelectric objective scanner features a large load capacity up to 0.5kg, Z-axis linear motion range up to 200µm, adopting flexible hinge mechanism, no friction, good linearity, high closed-loop positioning accuracy.

### Characteristics >>

- Active axes Z
- Travel to 200µm
- Load capacity to 0.5kg
- Millisecond response time
- Closed loop for high repeatability

#### Applications >>

- 3D imaging
- Surface structure analysis
- Biotechnology
- Interference/metering
- Confocal microscope
- Semiconductor test



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790 Ema Fax: +86-451-86267847 Web

Email: info@coremorrow.com Web: www.coremorrow.com Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai



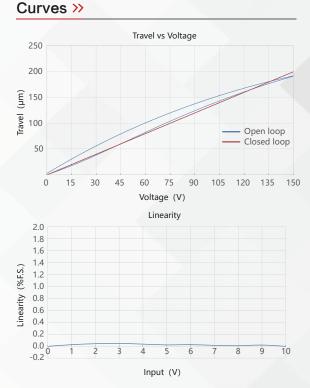
#### Technical Data >>

Туре	S-Closed loop K-Open loop	P76.Z200S	P76.Z200K	Units
Active axis		Z	Z	
Travel range(0~120V)		160	160	µm±10%
Travel range(0~150V)		200	200	µm±10%
Integrated sensor		SGS	-	
Resolution		5.5	2	nm
Linearity		0.03	-	%F.S.
Repeatability		0.02	-	%F.S.
Push/pull force		-	-	Ν
Stiffness		-	-	N/µm±20%
Unloaded resonant frequency		900	900	Hz±20%
Closed-loop operating frequency (-3dB)		-	-	Hz±20%
Unloaded step time		10	4	ms±20%
Load capacity		0.5	0.5	kg
El. capacitance		28.8	28.8	μF±20%
Operating temperature <sup>[1]</sup>		-20~80	-20~80	°C
Material		Steel, Al	Steel, Al	
Mass		740	740	g±5%
Cable length <sup>[2]</sup>		1.5	1.5	m±10mm

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.

Custom ultralow temperature and ultrahigh vacuum versions are available.
Custom cable length and connector is available.

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



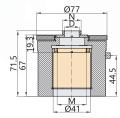
Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

#### Drawing >>

P76.Z200S/K



P76.Z200S/K with Adapter



M(Model)	N(Model)	D
M38×0.75	/	Ø27
M32×0.75	M32×0.75	Ø27
M28×0.75	M28×0.75	Ø23
M27×0.75	M27×0.75	Ø22
M26×0.75	M26×0.75	Ø21
M26×1/36"	M26×1/36"	Ø21
M25×0.75	M25×0.75	Ø20
W0.8×1/36"	W0.8×1/36"	Ø15
M19×0.75	M19×0.75	Ø14

### 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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#### Make Your Motion and Control More Accurate!