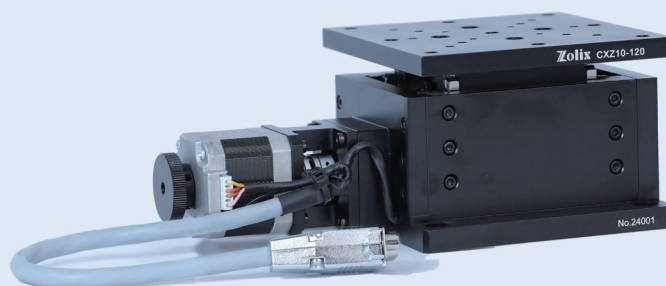


CXZ Series Motorized Vertical Stage



Description:

CXZ series vertical stage is the latest products especially designed by Zolix for occasions where compact dimension and high frequency operation is needed. The main body is made by premium aluminium alloy, and surface is treated by black anodic oxidation. This process gives the stage good wear resistance and anti-stray light properties. Structurally speaking, crossed-roller guides, precision ball screw and 2-phase stepping motor is employed to ensure high resolution and positioning repeatability.

Features:

- Equipped with precision ball, precision motion
- Wedge structure, high rigidity and high load capacity
- Crossed-roller guides are employed for smooth translation

Naming rule:

CXZ-10-120 (-B)

Series code:
CXZ: ball screw, crossed-roller guide, wedge structure, vertical stage.

Travel range:
10: 10mm

Surface dimension:
120: 120mm×120mm

Motor type:
None: 2-phase 42 stepping motor without power-off locking mechanism
B: 2-phase 42 stepping motor with power-off locking Mechanism

Specifications:

Model		CXZ10-120
Mechanical specifications	Travel range(mm)	10
	Stage surface size(mm)	120×120
	Transmission mechanism	Ball screw Φ8 x 2
	Guide mechanism	Crossed-roller guides
	Main body material, surface treatment	Black anodized aluminum alloy
	Weight(kg)	2.6
Accuracy specifications	Resolution(step/half step, μm)	5 / 2.5
	20-fine-subdivision resolution(μm)	0.25
	Highest speed(mm/s)*	10
	Repositioning accuracy(μm)	≤±2.5
	Backlash(μm)	≤5
	Static clearance(mm)	≤0.1
	Dynamic straightness(μm)	≤30
Electrical specifications	Motor and its stepping angle(°)	2-phase stepping motor, 1.8
	Brand and model number of motor	Shinano, SST43D2126-10
	Working current(A)	1.7
	Torque of motor(mN·m)	456
	Brand and model number of stepping driver	Moons, SR2
	Type of plug for stage	DB9(pin)
	Type of cable for stage	High flexibility cable(Helukabel, Germany)
	Length of connection cable(m)	0.2
	Position-limit sensors(built-in)	2×GP1S09xHCPI(Japan SHARP)
	Origin-point sensors(built-in)	1×GP1S09xHCPI(Japan SHARP)
	Voltage of power supply for sensors(V)	DC5~24V±10%
	Control output	NPN open collector output DC5 ~ 24V 8mA or less Residual voltage 0.3V or less(when load current is 2mA)
	Status of output ports	out put ON when sensor is blocked
Maximum load capacity	Horizontal direction(Kg)	8

**Note: Highest speed is measured under zero-load conditions with the motor running at 600 RPM.

Dimensions:

CXZ10-120

