



Multi Axis Motorized Piezo Stages



2023 V1

For customized projects please Contact us:

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Three-axis Motorized Piezo Stage - ST-XY3-5050+ST-VS-0812

Our three-axis motorized piezo stage (ST-XY3-5050+ST-VS-0812) is a XYZ stage with +/-25mm stroke for X,Y stage and +/-6mm for Z stage. It has repeatability up to +/-200nm.

Feature

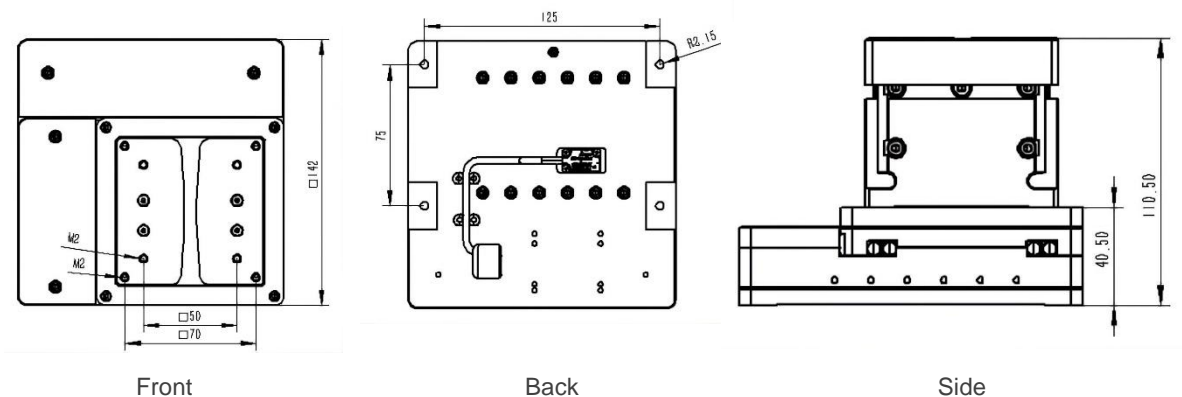
- Piezoelectric motor drive, self-locking when power off, saving energy and reducing heat generation
- Simple and compact design
- Grating feedback, optional resolution
- Can be used in optical assembly, micro-nano processing, laser, automation and other fields



Specification

Model	Three-axis Motorized Piezo Stage(ST-XY3-5050+ST-VS-0812)
X,Y Stage Stroke(mm)	+/-25
Z Stage Stroke(mm)	+/-6
Driver	Piezoelectric Motor
Maximum Load Capacity(KG)	2
Maximum Speed(mm/s)	30
X,Y Stage Minimum Step Size(nm)	50
X,Y Stage Repeatability(nm)	+/-200
Z Stage Minimum Step Size(nm)	50
Z Stage Repeatability(nm)	+/-200
Material	Aluminum Alloy

Drawings

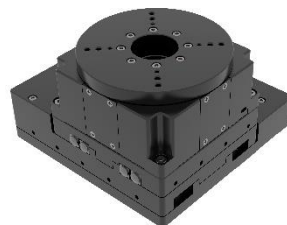


Three-axis Motorized Piezo Stages - ST-XY3-5050+ST-RS-100C

Our three-axis motorized piezo stage (XY3-5050+RS-100C) is a XYR stage with +/-25mm stroke for X,Y stage and +/-6° for R stage. It has repeatability up to +/-200nm for X,Y stage and +/-0.0005° for R stage.

Feature

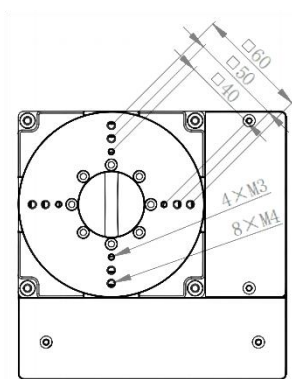
- Piezoelectric motor drive, self-locking when power off, saving energy and reducing heat generation
- Simple and compact design
- Grating feedback, optional resolution
- Can be used in optical assembly, micro-nano processing, laser, automation and other fields



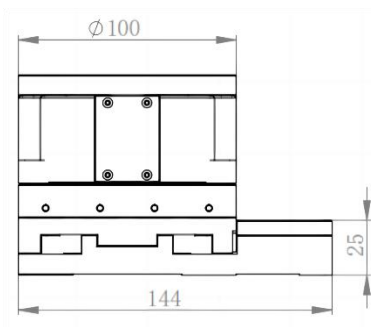
Specification

Model	Three-axis Motorized Piezo Stage(ST-XY3-5050+ST-RS-100C)
X,Y Stage Stroke(mm)	+/-25
R Stage Stroke(°)	+/-6
Driver	Piezoelectric Motor
Maximum Load Capacity(KG)	10
Maximum Speed(mm/s)	30
X,Y Stage Minimum Step Size(nm)	100
X,Y Stage Repeatability(nm)	+/-200
R Stage Minimum Step Size(°)	0.0005
R Stage Repeatability(°)	+/-0.0005
Material	Aluminum Alloy

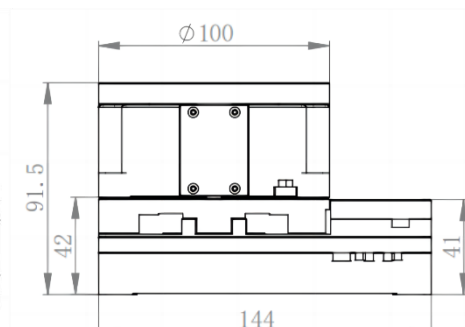
Drawings



Front



Side



Side

Three-axis Motorized Piezo Stages - ST-XYR20-202020

Our three-axis motorized piezo stage (XYR20-202020) is a XYR stage with 20mm stroke for X,Y stage and 20° for R stage. It has repeatability up to +/-300nm for X,Y stage and +/-0.001° for R stage.

Feature

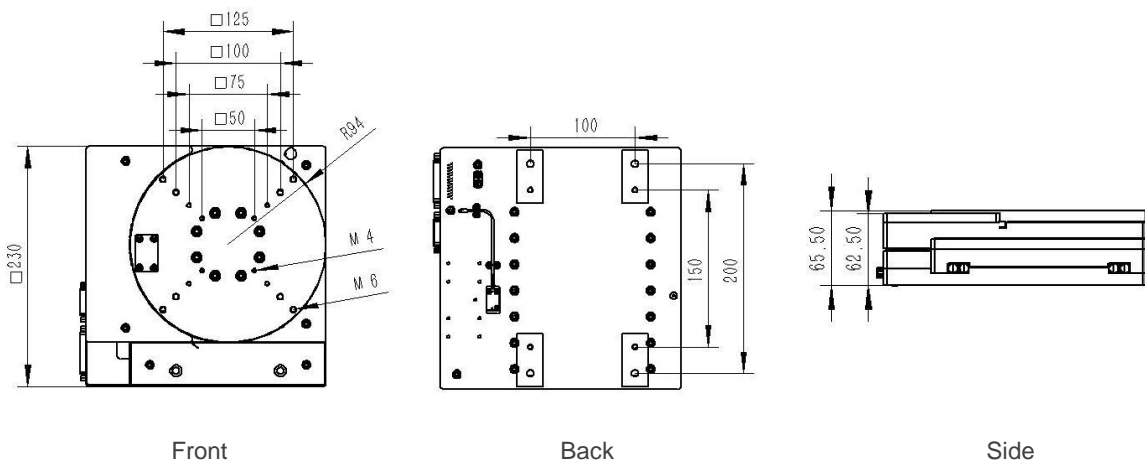
- Piezoelectric motor drive, self-locking when power off, saving energy and reducing heat generation
- Simple and compact design
- Grating feedback, optional resolution
- Can be used in optical assembly, micro-nano processing, laser, automation and other fields



Specification

Model	ST-XYR-202020
Stroke(mm)	20x20x20°
Driver	Piezoelectric Motor
Maximum Speed(mm/s)	50
Minimum Step Size(nm)	200
Repeatability	+/-300nm, +/-0.001°
Position Sensor	Grating
Material	Aluminum Alloy
Weight(KG)	8.5

Drawings



Six-axis Motorized Piezo Stages

Our six-axis motorized piezo stage includes X stage, Y stage, Z stage, R stage, G stage. It can be used in optical assembly, micro-nano processing, laser, automation and other fields.

Feature

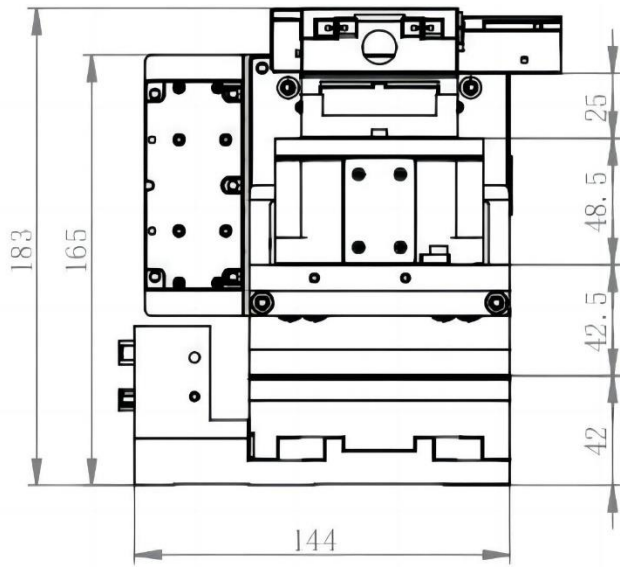
- Piezoelectric motor drive, self-locking when power off, saving energy and reducing heat generation
- Simple and compact design
- Grating feedback, optional resolution
- Can be used in optical assembly, micro-nano processing, laser, automation and other fields



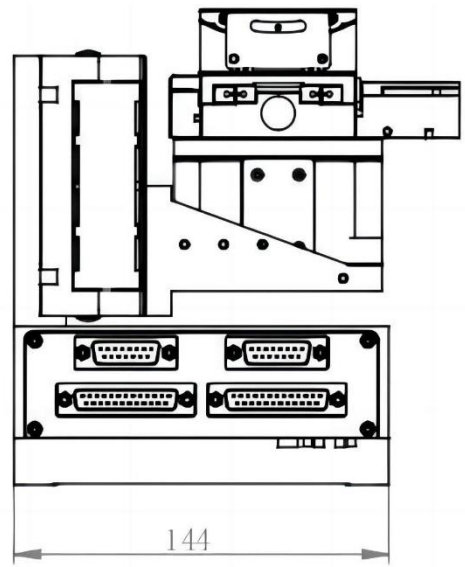
Specification

Model	Six-axis Motorized Piezo Stage
X Stage Stroke(mm)	+/-12.5
X Stage Minimum Step Size(nm)	100
X Stage Repeatability(nm)	+/-300
Y Stage Stroke(mm)	+/-12.5
Y Stage Minimum Step Size(nm)	100
Y Stage Repeatability(nm)	+/-300
Z Stage Stroke(mm)	+/-10
Z Stage Minimum Step Size(nm)	100
Z Stage Repeatability(nm)	+/-300
R Stage Stroke(°)	+/-5
R Stage Minimum Step Size(°)	0.0002
R Stage Repeatability(°)	+/-0.0004
G Stage Stroke(°)	+/-5
G Stage Minimum Step Size(°)	0.0002
G Stage Repeatability(°)	+/-0.0004
Position Sensor(nm)	Grating
Position Sensor Resolution	100
Driver	Piezoelectric Motor
Maximum Fixed Load(KG)	0.15
Maximum Speed(mm/s)	20 (Open Loop)
Material	Aluminum Alloy
Power Supply	220VAC
Maximum Power Consumption(W)	50
Operating Temperature(°C)	15-35
Working Humidity	0-85%
Storage Temperature(°C)	-40-70
Weight(KG)	6.4

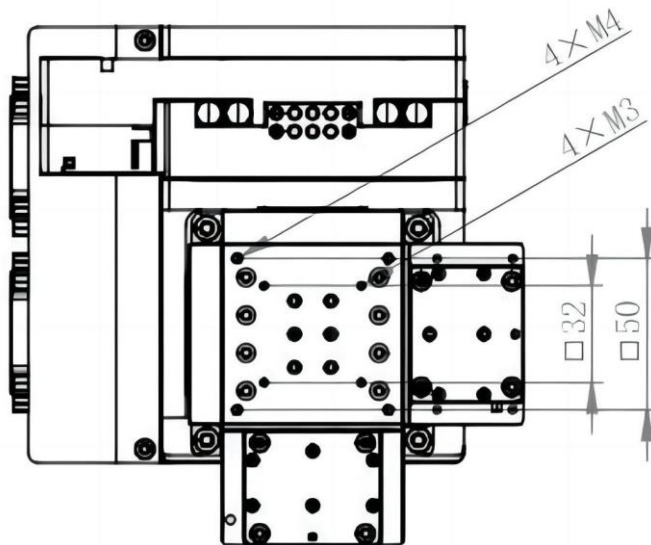
Drawings



Side



Side



Top