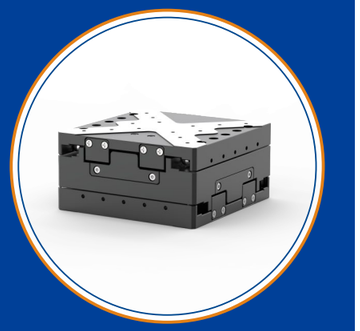
FMSXY系列
步进电机二维扫描平台

FMSXY Stepping Motor 2D Scanning Stage

FMSXY100-20-20 FMSXY120-25-25
FMSXY150-50-50 FMSXY200-100-100



- **行程覆盖**
  20mm(XY)，25mm(XY)，50mm(XY)，100mm(XY)
- **一体化XY设计**
- **免费标准版SDK**
  Window、Linux环境下支持多种开发语言：C/C++、C#、Matlab、LabVIEW等
- **高性能控制器**
  实现圆弧插补，直线插补，位置记忆，任意图形导入
- **可选配EtherCAT总线控制**

产品应用 APPLICATION FIELDS

- 二维扫描 2D Scan
- 检测设备 Testing Equipment
- 显微载物台 Microscope Stage

产品简介 OVERVIEW

菲克科技研发的一体化步进二维位移台。双向重复定位精度和微步能力极佳。结构小巧，易于配套集成。可配标准FMC01系列控制器应用，也提供SDK给客户做二次开发。

Feinixs developed the integrated stepping 2D stage. Excellent bi-directional repeatability and micro-stepping capability. The structure is small and easy to be integrated. Can be equipped with standard FMC01 series controller, and also provide SDK to customers for secondary development.

设计细节 FEATURES

整体设计，结构紧凑
适用于各类受限空间

进口高精度交叉滚柱导轨
高精度运行的保证

高品质步进电机
确保定位精度的准确性

组合搭配 TYPICAL ASSEMBLY

It can be flexibly combined into multi-axis motion system,Contact for more information

相关产品 RELATED PRODUCTS

FMC01-H(CL)

FMC01-Mini

产品参数 SPECIFICATIONS

Model	FMSXY100-20-20	FMSXY120-25-25	FMSXY150-50-50	FMSXY200-100-100
行程 Travel(mm)	20(XY)	25(XY)	50(XY)	100(XY)
负载* Load Capacity(Kg)[1]	2	2	5	5
分辨率 Resolution(μm)	0.625	0.625	0.625	0.625
最小步进量 Min.Incremental Motion(μm)[2]	1	1	1	1
单向重复定位精度/保证值* Undirection Repeatability[3]/Guaranteed(μm)[4]	±2 or 4	±2 or 4	±2 or 4	±2 or 4
单向重复定位精度/典型值 Undirection Repeatability/Typical(μm)	±1 or 2	±1 or 2	±1 or 2	±1 or 2
双向重复定位精度/保证值 Bi-Directional Repeatability/Guaranteed(μm)	±4 or 8	±4 or 8	±4 or 8	±4 or 8
双向重复定位精度/典型值 Bi-Directional Repeatability/Typical(μm)	±2 or 4	±2 or 4	±2 or 4	±2 or 4
定位精度/保证值 Accuracy[3]/Guaranteed(μm)	±20 or 40	±20 or 40	±20 or 40	±20 or 40
定位精度/典型值 Accuracy/Typical(μm)	±10 or 20	±10 or 20	±10 or 20	±10 or 20
最大速度* Max.Speed(mm/s)[5]	5	5	5	5
直线度 Straightness(μm)	20	20	20	20
平整度 Flatness(μm)	20	20	20	20
偏摆 Yaw(arcsec)	30	30	35	35
俯仰 Pitch(arcsec)	30	30	35	35
重量 Weight(kg)	1.2	2.3	3.2	7

※ 备注
[1]：负载为水平放置下的中心垂直负载：最大负载为60kg
[2]：最小运动增量不等同于分辨率，最小运动增量是指运动系统在连续、稳定情况下能够移动的最小量。一般来说，系统分辨率远小于最小运动增量。考虑传动结构和编码器对系统误差的影响，直线电机位移台与步进电机位移台相比，其最小运动增量更加接近于分辨率
[3]：精度数据为平台水平放置时，采用激光干涉仪依据 GB/T17421-2000 标准测得；产品精度随负载大小存在差异，为保证精度，建议负载控制在标称范围内使用
[4]：典型值和保证值的区别见技术指南
[5]：最大速度为典型值，随负载与控制器不同有所差异：空载最大速度为50mm/s,标称负载下最大速度为50mm/s

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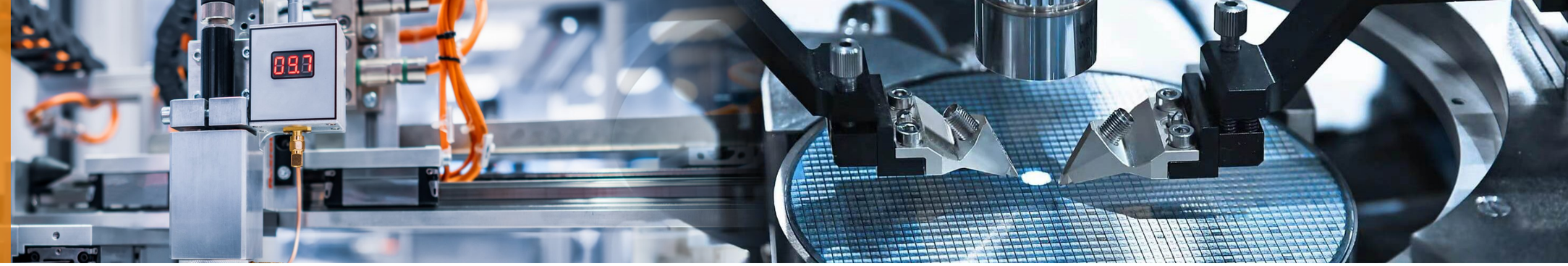

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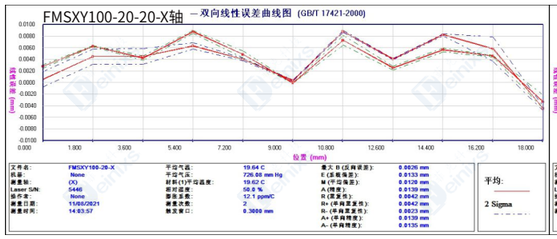
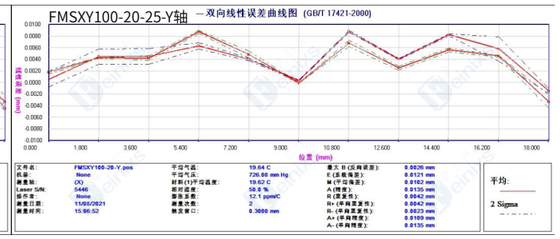
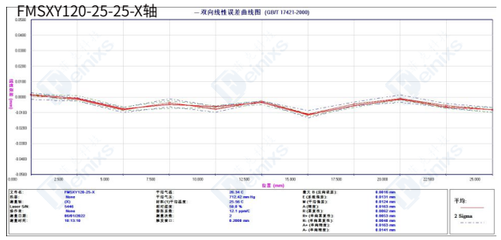
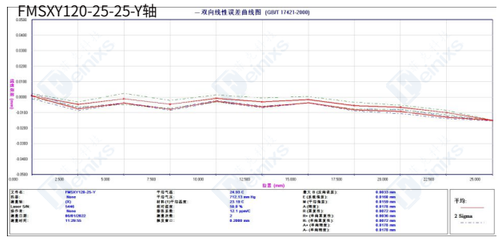
性能实测 ERROR CURVE





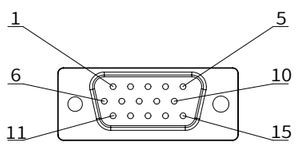




Each Stage is Tested with a Laser Interferometer. Product Identification and Traceability.

接线定义 HARDWARE CONNECTION

电气接口 Electric wiring diagram

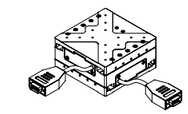


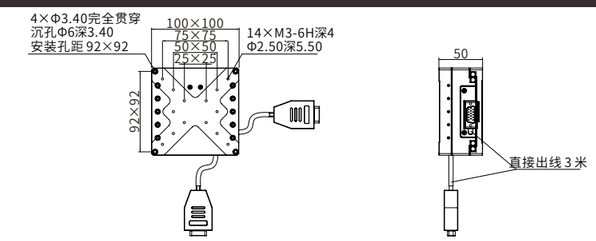
DB15-VGA 公头

针脚	定义
1	24V+
2	Limit-
3	Zero
4	Limit+
5	24V-
6	A+
7	A-
8	B+
9	B-
10-15	/

产品图纸 DIMENSIONS

FMSXY100-20-20





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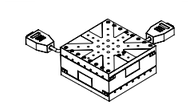

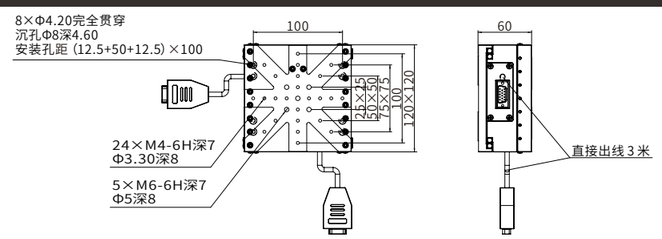

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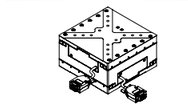

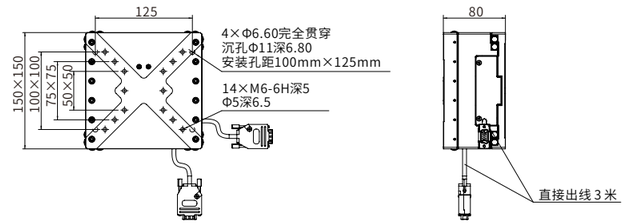

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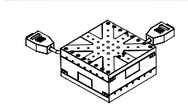

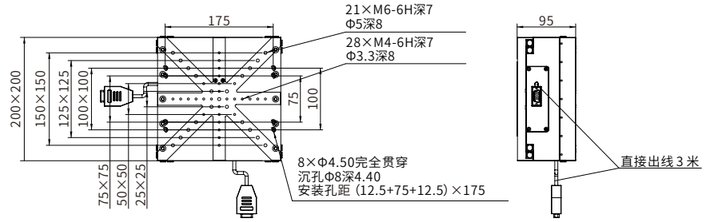

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