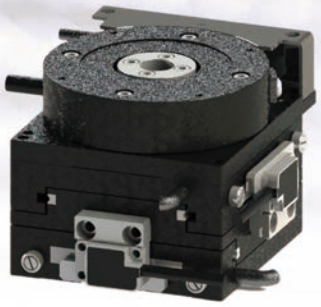
XYT micro-platform

Product Features



High response speed

The direct-drive design enables the platform to respond quickly, making it suitable for high-utilization rate requirements such as high-speed pick-and-place and flying inspection.

High-precision positioning

The XYT platform is equipped with a high-precision optical linear encoder, which enables the platform to have high-precision performance.

Compact Design

The internal structure is compact, with a linear motor and an integrated base design, making it suitable for applications with limited space.

Flexible

The optical scale has various resolutions and can be customized to meet different process requirements.

Multiple application scenarios

It is widely used in visual alignment, optical inspection, precision assembly, fiber optic alignment and other fields.

The XYT micro-platform is a high-precision, high-stability, multi-functional platform widely used in the following fields:

1. Precision Measurement

In scientific research and industrial production, the XYT micro-platform enables micron-level precision positioning.

2.Mechanical Processing

This platform is used for the processing and production of miniature components, providing high-precision positioning and movement.

3. Semiconductor Manufacturing

The XYT platform is used for accurate positioning in processes such as wafer testing and photolithography, significantly improving production efficiency.

4. Optical Experiments

It supports the precise adjustment of optical equipment, such as components requiring precise movement in microscopes or spectrometers.

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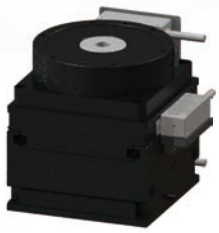


Model	GLM65-XYT	GLM80-XYT	GLM95-XYT	GLM130-XYT
Dimension (mm)	65*76*57	83*94*92	95*95*102.5	130*130*110
Single axial motor parameter comparison				
Continuous thrust(N)	4.6	8.8	23.8	56.3
Max thrust(N)	27.6	26.4	95	225
Encoder Type	Optical, Digital	Optical, Digital	Optical, Digital	Optical, Digital
Repeatability Precision (μ m)	±1	±1	±1	±1
Stroke (mm)	10	20	10	20
T-axis motor parameter comparison				
Max torque (N-m)	0.5	0.2	0.4	1.14
Rated torque (N-m)	0.1	0.78	1.75	4.55
Moment of Inertia (Kg ・ m^2)	0.0001	0.00015	0.002	0.005
Repeatability Precision (arc-sec)	±3	±3	±3	±3
Encoder Type	Optical, Digital	Optical, Digital	Optical, Digital	Optical, Digital
Stroke (°)	±25	±25	±5	±5

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afaq ISO 9001 Quality

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