



(<https://www.alioindustries.com/>)



Linear Motion Systems

XY Stage



Linear Motor Monolithic XY

ALIO's XY Monolithic True Nano® motion systems' performance is unequalled for 6-D Nano Precision®. With nanometer straightness and flatness you can be assured that your point precision is True Nano®. This stage family is available from 25mm travel to 450mm travel. Standard axis bi-directional repeatability is less than 50 nanometers with optional 10 nanometers bi-directional repeatability for demanding metrology or manufacturing needs. Stages can come with NIST traceable data assuring nano precision not just marketing data sheet optimism.

- Travel: 30mm – 440mm
- Velocity: up to 1m/sec
- Resolution: < 5nm
- Bi-Directional Repeatability: < ± 30nm
- Displacement Accuracy: < 1 µm

- Standard and Highly Dynamic Grades

Standard Monolithic



DIMENSIONS



SPECIFICATIONS

High Dynamic Monolithic

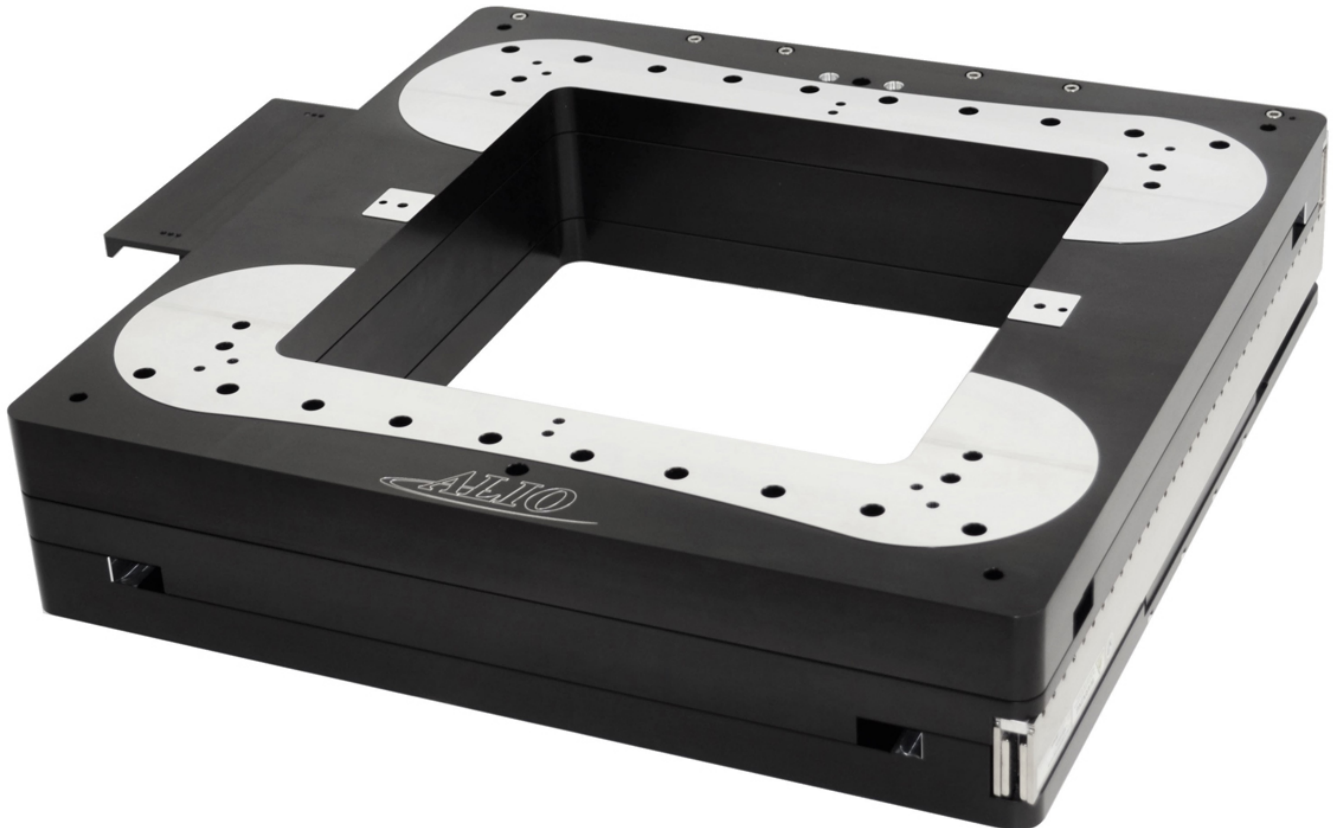


DIMENSIONS



SPECIFICATIONS

XY Stage

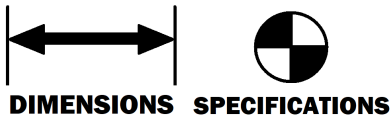


Linear Motor Monolithic XY – Open Center / Aperture

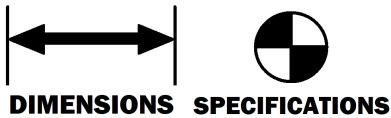
ALIO's XY Monolithic True Nano® motion systems' performance is unequalled for 6-D Nano Precision®. With nanometer straightness and flatness you can be assured that your point precision is True Nano®. This stage family is available from 25mm travel to 450mm travel. Standard axis bi-directional repeatability is less than 50 nanometers with optional 10 nanometers bi-directional repeatability for demanding metrology or manufacturing needs. Stages can come with NIST traceable data assuring nano precision not just marketing data sheet optimism.

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- Displacement Accuracy: < 1 μ m
- Standard and Highly Dynamic Grades

Standard Monolithic



High Dynamic Monolithic



Single Axis Linear Stages

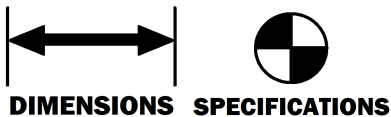


Linear Motor Stage

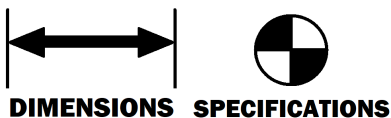
ALIO's True Nano® linear motion systems' performance is unequalled for 6-D Nano Precision®. With excellent performance in straightness and flatness you can be assured that your point precision is True Nano®. This stage family is available from 25mm travel to 450mm travel. Standard axis bi-directional repeatability is less than 50 nanometers with optional 10 nanometers bi-directional repeatability for demanding metrology or manufacturing needs. Stages can come with NIST traceable data assuring nano precision not just marketing data sheet optimism.

- Travel: 25mm – 300mm
- Velocity: up to 1m/sec
- Resolution: < 5nm
- Bi-Directional Repeatability: < ± 30 nm
- Displacement Accuracy: < 1 μ m
- Standard and Highly Dynamic Grades

Standard Monolithic



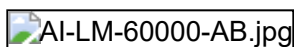
High Dynamic Stages



Linear Motor Driven, Air Bearing Guided

Single-Axis

6" x 6"



Drawing (https://www.aliindustries.com/download_file/view/86/211)
Specifications (https://www.aliindustries.com/download_file/view/85/211)

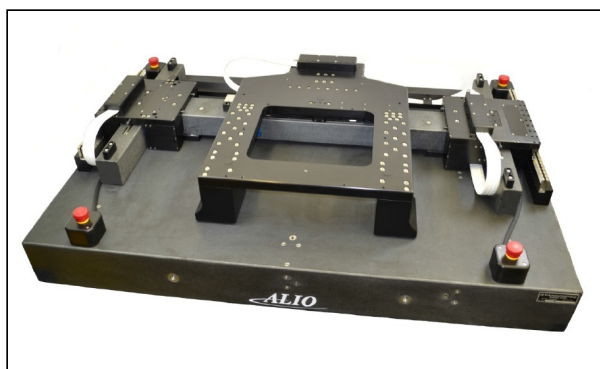
XY Planar Air Bearing

Closed Center



Drawing (https://www.aliindustries.com/download_file/view/88/211)
Specifications (https://www.aliindustries.com/download_file/view/88/211)

Open Center



Drawing (https://www.aliindustries.com/download_file/view/90/211)
Specifications (https://www.aliindustries.com/download_file/view/88/211)

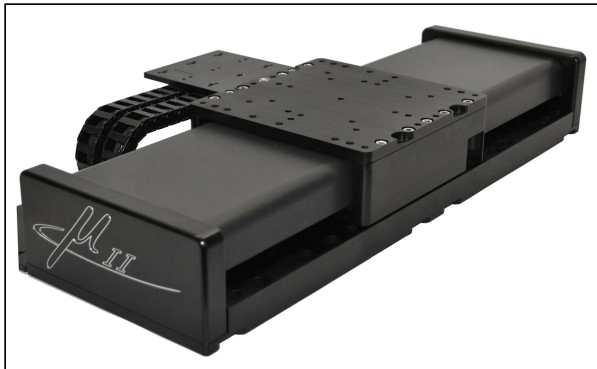
Linear Motor Driven, Long Stroke Stages

High Precision Micron-II Stages



Endless configurations available. Contact ALIO regarding your specific application needs.
Delivered as Complete System – ready to run.

μ II-Wide



Drawing (https://www.alioindustries.com/download_file/view/93/211)
Specifications (https://www.alioindustries.com/download_file/view/88/211)

μ II-Slim



Drawing (https://www.alioindustries.com/download_file/view/95/211)
Specifications (https://www.alioindustries.com/download_file/view/88/211)

Specialty Stages

High-Frequency X or Z stage



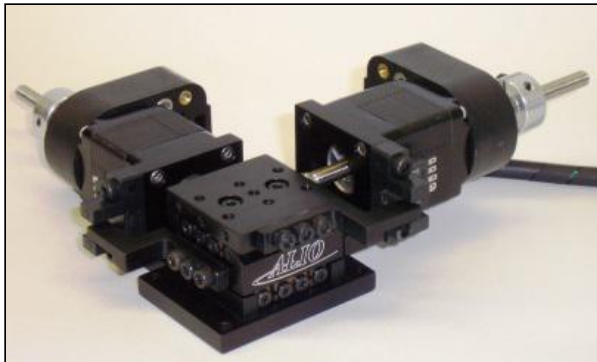
magnetic counterbalance

Drawing (https://www.aliindustries.com/index.php/download_file/view/105/131/)

Electrical (https://www.aliindustries.com/download_file/view/98/211)

Specifications (https://www.aliindustries.com/download_file/view/99/211)

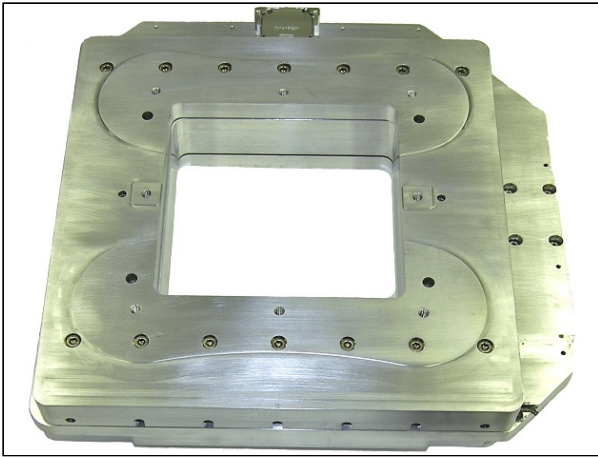
18mm x 11mm Step Stage



Drawing (https://www.aliindustries.com/download_file/view/101/211)

Electrical
Specifications

Vacuum Stages



Contact ALIO for sizing

To download our datasheet please complete for form below.

Name

Company Name

Email Required

Submit

CLOSED CENTER XY MONOLITHIC

Open Center XY Monolithic

