KT310 Precision XY Stage



XY stage for universal applications

With a travel of 200 mm in the X and Y directions, the XY stage can be used for all applications, especially for tasks in testing and measurement engineering. Its concept with internal motors, cross roller bearings and high precision ball screws enables excellent precision with optimum use of the installation place.

- · Ideal for high-precision inspection and microscopy
- High-precision repeatability up to 0.7 μm
- · Easy to combine for multi-axis applications

Options:

- Available with DC motor or stepper motor
- Different high resolution measuring systems
- · Version for clean room and vacuum on request



High resolution microscopy, automatic optical inspection (AOI), inspection systems for clean room, wafer inspection

Recommended Motion Controllers

- Integration into ACS architectures
- Integration into PLC architectures





XYZ Combination for automated inspections Travel 200 x 200 x 50 mm



XYZ Combination for optical wafer inspection Travel 200 x 200 mm

Specifications

KT310		-200-DC-R	-200-DC-L	-200-SM
Travel	[mm]	200	200	200
Repeatability unidirectional	[µm]	± 2.5	± 0.7	± 2.3
Repeatability bidirectional	[µm]	± 4.5	± 1.2	± 4.3
Accuracy	[µm]	± 13.7	± 3	± 13.4
Flatness	[µm]	± 4	± 4	± 4
Straightness	[µm]	± 3	± 3	± 3
Positioning speed	[mm/s]	30	30	10
Max. speed	[mm/s]	60	60	20
Max. acceleration	[m/s2]	0.5	0.5	0.2
Max. load Fx	[N]	45	45	45
Max. load Fy	[N]	45	45	45
Max. load Fz	[N]	110	110	110
Max. torque Mx	[Nm]	5.3	5.3	5.3
Max. torque My	[Nm]	5.3	5.3	5.3
Max. torque Mz	[Nm]	5.1	5.1	5.1
Pitch	[µrad]	± 140	± 140	± 140
Yaw	[µrad]	± 70	± 70	± 70
Weight	[kg]	18	18	18
Length	[mm]	310	310	310
Width	[mm]	310	310	310
Height	[mm]	80	80	80
Motor		DC Motor	DC Motor	Stepper Motor
Feedback		Motor Encoder	Linear Scale	Open Loop

Specifications are subject to change. Values are for the single axis with our controller. Parameters shown here are typical values for a standard configuration. By customization and given in depth knowledge of your application significantly improved values can be achieved. Please contact us.

