SKV Series Stainless Steel Manual Vertical Stages, 6–13 mm Travel

Model SKV Series · waveqvanta.com/products/skv-series-stainless-steel-manual-vertical-stages

Stainless steel micrometer-driven Z stages with linear slider guides for precise manual height adjustment.



SKV series vertical stages raise and lower the platform directly with a micrometer, while linear slider guides keep the motion accurate as the stage moves. The SUS304 stainless steel body is sandblasted; the top plate carries several standard hole patterns, and fixing holes in the base let the stage be combined with other stages in multi-axis setups. Three models offer 6 or 13 mm travel.

Key features

- Direct lift structure driven by a centrally mounted vertical micrometer
- Linear slider guides for smooth vertical motion
- Sensitivity ≤2 μm; micrometer minimum reading 0.01 mm, 0.5 mm height change per turn
- SUS304 stainless steel body with sandblasted surface
- Standard mounting holes on the top plate and base for stacking with other stages
- Static parallelism ≤100 μm; central load capacity up to 3 kg

Specifications

Travel Range	6 mm or 13 mm
Stage Surface Size	40 × 40, 60 × 60 or 65 × 65 mm
Stage Surface Height Range	51–57 mm (SKV6A-40Z); 66.5–79.5 mm (13 mm models)
Lifting Mechanism	Direct lift
Guide Mechanism	Linear slider guide
Drive Type	Micrometer
Drive Location	Central, vertical
Body Material and Finish	SUS304 stainless steel, sandblasted
Sensitivity	≤2 μm
Micrometer Minimum Reading	0.01 mm
Height Change per Micrometer Turn	0.5 mm
Static Parallelism	≤100 μm
Central Load Capacity	≤2 kg (SKV6A-40Z); ≤3 kg (13 mm models)
Weight	0.43–1.18 kg

Model overview

Model	Stage Size (mm)	Travel (mm)	Height Range (mm)	Load (kg)	Weight (kg)
SKV6A-40Z	40 × 40	6	51–57	≤2	0.43
SKV13A-60Z	60 × 60	13	66.5–79.5	≤3	1.12
SKV13A-65Z	65 × 65	13	66.5–79.5	≤3	1.18

Typical applications

- Height adjustment of optics, fibers and samples
- Z axis for multi-axis manual positioning assemblies

- Beam height matching on optical tables
- Focus adjustment in imaging setups