SFLT3310 Substage

Our range of stages are suited for orthogonal positioning solutions in atmosphere, SEM/FIB, UHV and at low temperatures.

The SFLT3310 is primarily used in SEM/FIB to enhance the accuracy and functionality of the standard microscope stage. It is designed for nanomanipulation applications where weight and space are highly restricted and for high-precision work in extreme environments.

APPLICATIONS

Substage for SEM & FIB

TEM aperture positioning

Particle counting

Cell counting

CUSTOMIZATION

Ultra high vacuum compatible

Low temperature compatible

Non-magnetic material

kleindiek nanotechnik

SFLT3310 Substage

More compact and more flexible

- Small and practical
- Plug-and-play system with modular design
- Fast setup and removal

Clearer and simpler

- Result-oriented operation which leads to increased throughput
- Intuitive control interfaces, user-friendly software and API support
- User-friendly and easy to learn
- Compact, stand-alone electronics
- Pioneering cabling technology with compact vacuum feedthrough

More robust and more stable

- Compact construction delivers higher resonance frequencies
- Excellent stability
- Virtually insusceptible to vibrations
- Reliable operation (one year endurance test)
- Fast pre-positioning by hand
- Functions in extreme working environments

Faster and more precise

- No backlash or reversal play
- Sub-nanometer resolution (< 0.5 nm)
- Coarse and fine displacement in one drive
- High operating velocity (up to 1 mm/sec)
- Low drift (1 nm/min)
- Smooth motion

Technical specifications

- Length 33 mm
- Width 33 mm
- Height 3.8 mm
- Central hole 4 mm ø
- Weight 10 g
- Travel 10 mm
- Speed up to 1 mm/s
- Resolution < 0.02 nm
- Load 50 g
- Maximum sample size 23 mm × 23 mm
- Temperature range 273 K to 353 K
  UHV version 273 K to 423 K (150°C)
- Lowest pressure 10^{-7} mbar
  UHV version 10^{-10} mbar
- Substage mounting 4 × 2 mm holes
- Sample mounting 4 mm center hole
- Material Aluminium

Contact us at
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www.kleindiek.com

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