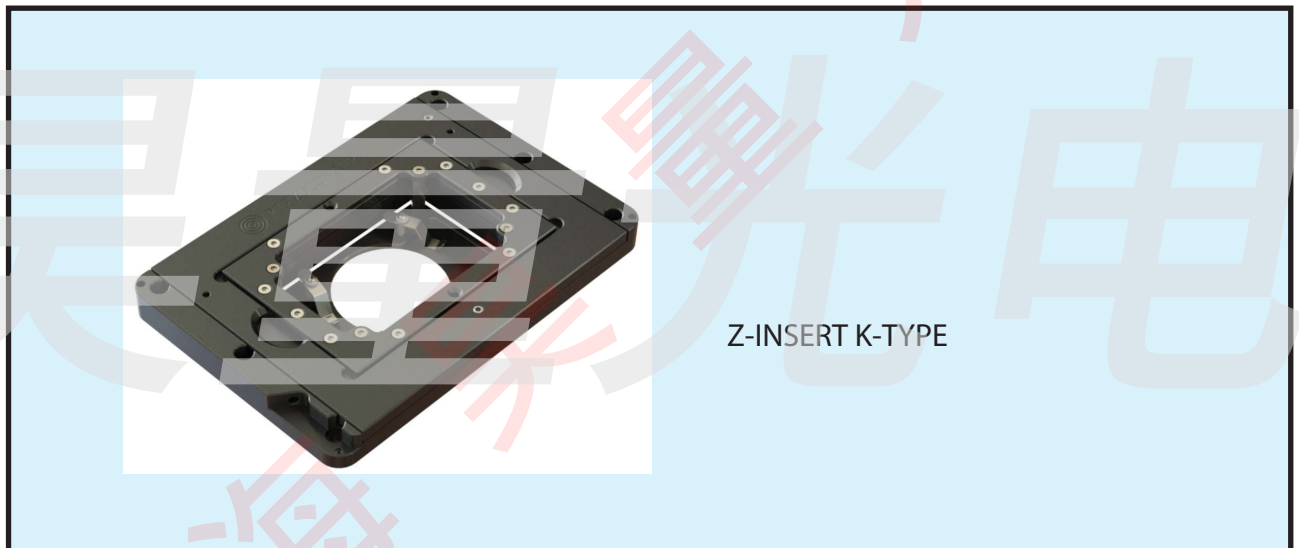


Z-INSERT K-TYPE

The Z-INSERT K-TYPE is the compact version of the Z-INSERT. It has the same length and width as a K-Type sample holder (160mm x 110mm).

It provides a 83,6 mm by 54 mm opening compatible with our rectangular sample holders which allows to change the height position of the sample.

The Z-INSERT K-TYPE is compatible with most inverted and upright stages which have a K-type aperture.



Z-INSERT K-TYPE

Features

- Travel ranges up to 300 μ m
- Low profile for easy integration
- Closed loop control
- Silicon sensor technology
- Less than 30pm noise floor

Applications

- Z-stack
- Autofocus system
- Confocal microscopy
- Super Resolution microscopy
- Biotechnology

Specifications

| | Z-INSERT K-TYPE.100 | Z-INSERT K-TYPE.200 | Z-INSERT K-TYPE.300 | Unit |
|----------------------------|--|---------------------|---------------------|------------------|
| Range of motion Z | 100 | 200 | 300 | μm |
| Resolution Z | 0,1 | 0,2 | 0,3 | nm |
| Typical noise floor Z | 0,01 | 0,02 | 0,03 | nm |
| Full range repeatability Z | 0,2 | 0,4 | 0,6 | nm |
| Linearity Z (typical) | 0,02% | 0,02% | 0,02% | |
| Resonant frequency Z | 500 | 400 | 350 | Hz |
| Stiffness Z | 0,6 | 0,5 | 0,4 | N/ μm |
| Maximum Load* : | | | | |
| - horizontal use | | 1 | | kg |
| - vertical use | | 0,5 | | kg |
| Sensor | Silicon HR sensor | | | |
| Size W x L x H | 159,75 x 109,7 x 19,1 (height without sample holder) | | | mm |
| Material | Al | | | |
| Cable length** | 2 | | | m |
| Controller | Standard | | | |

* Higher load on request

** Higher length on request

Drawing

