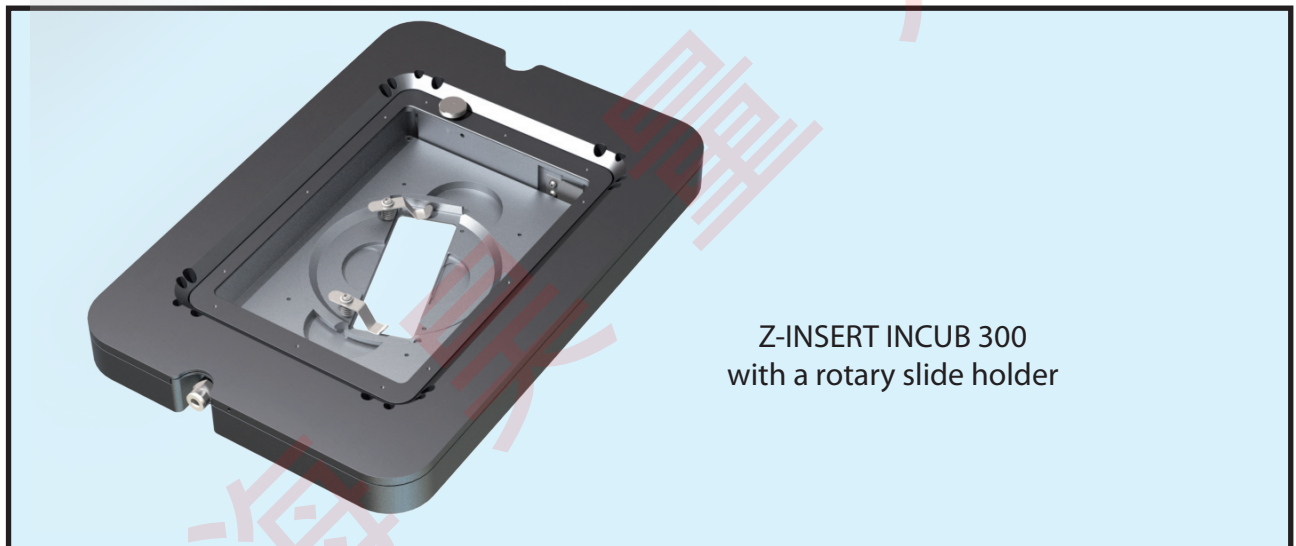


# Z-INSERT INCUB NANOPositionNER

The Z-insert Incubator is a special version of the Z-Insert with an embedded environmental chamber. It has the ideal design to create the proper environment for long-lasting live cell imaging :

- A 128.5 mm by 86.5 mm opening that accepts directly any multi-well microplates with a SBS Standard
- Input(s) can be connected to a variety of CO2 regulator (on request : Okolab, Tokai Hit, Pecon, Digital Pixel...).
- Input and output holes through the chamber can be accessed for perfusion
- The lid is easily removable for direct access to the sample

The Z-insert Incubator stage has all the advantages of the Z-Insert, that means it fits directly any standard 160mm x 110mm opening (K-type frame) which is used on most stages provided by third party manufacturers.



## Features

- Travel ranges up to 500µm
- Integrated environmental chamber
- 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 INCUB 100	Z-INSERT INCUB 200	Z-INSERT INCUB 300	Z-INSERT INCUB 500
Range of motion ( $\mu\text{m}$ )	100	200	300	500
Resolution (nm)	0,1	0,2	0,3	0,5
Typical noise floor (nm)	0,01	0,02	0,03	0,05
Full range repeatability (nm)	0,2	0,4	0,6	1
Linearization (typical)	0,02%	0,02%	0,02%	0,02%
Resonant frequency (Hz)	500	450	350	250
Stiffness (N/ $\mu\text{m}$ )	0,6	0,6	0,4	0,25
Maximum load (kg) - horizontal use	1	1	1	1
Maximum load (kg) - vertical use	0,5	0,5	0,5	0,5
Sensor	Silicon HR sensor	Silicon HR sensor	Silicon HR sensor	Silicon HR sensor
Size W x L x H (mm)	148 x 218,5 x 27,3	148 x 218,5 x 27,3	148 x 218,5 x 27,3	148 x 218,5 x 27,3
Material	Al	Al	Al	Al
Cable length (m)	2	2	2	2
Recommended Controller	Standard	Standard	Standard	Standard

## Drawing

