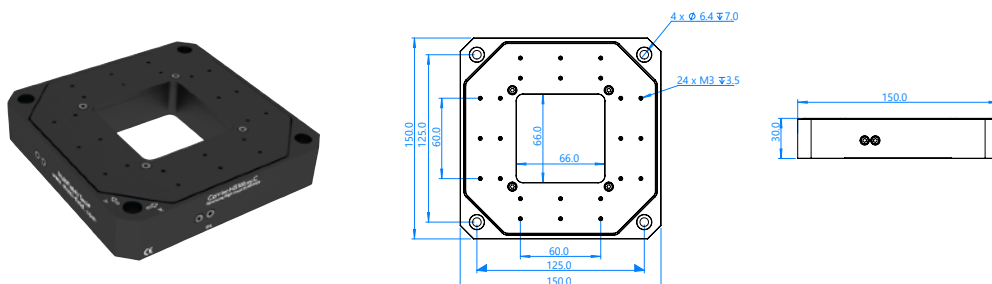


# XY Piezo Scanner — Carrier.S100/200.XY.C

Versatile, High Performance, Clear Aperture, XY Motion

- ➡ Feature
- Piezo Stack Driving
  - Flexure Guiding
  - Parallel Metrology
  - Sub-nanometer Resolution
  - CAP Sensor, Close-loop Control

## ➡ Photo & Drawing



| ➡ Specification |                                          | Carrier.S100.XY.C                                                                   | Carrier.S200.XY.C |
|-----------------|------------------------------------------|-------------------------------------------------------------------------------------|-------------------|
| 1               | Optional                                 | .NM, Non-magnetic;<br>.HV, High Vacuum Version;<br>.UHV, Ultra High Vacuum Version; |                   |
| 2               | Motion Direction                         | XY                                                                                  |                   |
| 3               | Footprint x Height                       | 150 x 150 x 30 mm                                                                   |                   |
| 4               | Material                                 | Aluminum, Stainless Steel                                                           |                   |
| 5               | Travel Range<br>(Close-loop XY)          | 100 x 100 μm                                                                        | 200 x 200 μm      |
| 6               | Aperture                                 | 66 x 66 mm                                                                          |                   |
| 7               | Linearity                                | 0.03%                                                                               |                   |
| 8               | Resolution<br>(Close-loop / Open-loop)   | 1 nm / 0.2 nm                                                                       | 2 nm / 0.4 nm     |
| 9               | Repeatability                            | 10 nm                                                                               | 10 nm             |
| 10              | Stiffness                                | 2 N/μm                                                                              | 1 N/μm            |
| 11              | Resonant Frequency<br>(no load / 2.5 kg) | 420 / 130 Hz                                                                        | 340 / 100 Hz      |
| 12              | Max. Payload                             | 5 kg                                                                                |                   |
| 13              | Sensor Type                              | Capacitive                                                                          |                   |
| 14              | Driving Voltage                          | Max. 150 V                                                                          |                   |
| 15              | Working Temperature                      | 15 ~ 40 °C                                                                          |                   |
| 16              | Controller                               | MC-Archimedes.N                                                                     |                   |

\* For detail drawing and 3D model please contact us.