Attachment 1

**ORDER DESCRIPTION**

1. **Subject of the order**
   1. The subject of the order is a supply of translation stages, according to the name and quantity indicated below:
      1. 12.7 mm translation stage with micrometer – 1 pc.;
      2. miniature translation stage with motion range of 12.7 mm – 1 pc.;
      3. miniature translation stage with motion range of 6.5 mm – 1 pc.;
      4. miniature translation stage with possibility to block the motion – 1 pc.
2. **Detailed description of the subject of the order**

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| --- | --- | --- |
| **Name** | **Parameter** | **Specification** |
|  | Drive type | Micrometric screw, placed centrally with the possibility of disassembly |
|  | Guide type | Ball-bearing slide, balls in the tempered grooves |
|  | Motion range | 12.7 mm |
|  | Drive angle accuracy | 250 µrad or better |
|  | Load in the vertical position | 2 kg |
| **12.7 mm translation stage with micrometer** | Load in the horizontal position | 41 kg |
|  |  | Height: ≤ 21 mm |
|  |  | Width: ≤ 61 mm |
|  | Dimensions | Length: ≤ 120 mm |
|  |  | Length towards the motion: ≤ 132.7 mm |
|  |  | 7 M6 holes on the upper stage |
|  |  | 7 M6 holes on the bottom stage |
|  | Mounting holes | 2 M4 holes in the bottom stage |
|  |  | 2 pass-through holes for M6 screw in the bottom stage with pass-through holes for hexagon socket head of M6 screw according to the DIN912 in the upper stage |
|  |  | Pitch: 0.5 mm |
|  | Micrometric screw | Scale graduation: 10 µm |
|  |  | Mounting diameter: 9.5 mm |
|  |  | Motion range: 12.7 mm |
| **Name** | **Parameter** | **Specification** |
|  | Drive type | Micrometric screw placed centrally |
|  | Guide type | Ball-bearing slide |
|  | Motion range | 12.7 mm |
|  | Maximal drive straightness error | 4 µm on 12.7 mm |
|  | Maximal drive parallelism error | 3 µm in the whole motion range |
| **Miniature translation stage with motion range of 12.7mm** | Dynamic loading in the recumbent position | ≥ 22 N |
|  |  | Height: ≤ 13 mm |
|  |  | Width (perpendicularly towards the motion): ≤ 21 mm |
|  | Dimensions | Length towards the motion: ≤ 64 mm |
|  |  | Upper stage dimensions: ≤ 20 x 21 mm |
|  |  | Bottom stage dimensions: ≤ 32 x 21 mm |
|  |  | 4 M2 holes on the upper stage |
|  | Mounting holes | M4 mounting holes with φ2 plug holes with spacings of 10 mm with depth of 10 mm on the bottom stage |
|  |  | 4 pass-through holes for M2 thread on the bottom stage |
|  |  | M3 x 0.25 mm |
|  | Micrometric screw | Length: 12.7 mm |
|  |  | Maximal torque without loading: 4 Nm |
| **Name** | **Parameter** | **Specification** |
|  | Drive type | Micrometric screw placed at the side |
|  | Guide type | Ball-bearing slide |
|  | Motion range | 6.5 mm |
|  | Loading in the recumbent position | ≥ 3.2 kg |
|  | Loading in the vertical position | ≥ 1.1 kg |
| **Miniature translation stage with motion range of 6,5mm** | Dimensions | Width (perpendicularly towards the motion):  ≤ 42 mm |
|  |  | Height: ≤ 18.5 mm |
|  |  | Length (towards the motion): ≤ 55.5 mm |
|  |  | M4 hole and 2 φ2.4 mm holes with spacings of 20,3 mm on the bottom stage |
|  |  | 5 M4 holes, 2 M3 holes and 2 φ2.4 mm holes with the spacings of 20,3 mm on the upper stage |
|  | Mounting holes | 2 pass-through holes for M3 thread in the bottom stage with the spacings of 11.3 mm with drilling for M3 screw head with hexagon socket according to DIN912, with pass-through holes for M3 screw head with hexagon socket according to DIN912 in the upper stage |
|  |  | Dowels for φ2.4 mm holes must be delivered with the element |
|  | Micrometric screw | Pitch: 0.5 mm |
|  |  | Length: 6.5 mm |
| **Name** | **Parameter** | **Specification** |
|  | Drive type | Micrometric screw |
|  | Guide type | Slide, dovetail joints |
|  | Loading in recumbent position | 1.2 kg |
|  | Loading in vertical position | 0.25 kg |
|  | Possibility to block the motion | Yes |
|  |  | Height: ≤ 14.8mm |
| **Miniature translation stage with possibility to block the motion** | Dimensions | Width (perpendicularly to the motion): ≤ 25.4 mm |
|  |  | Length (towards the motion): ≤ 45.9 mm |
|  | Mounting holes | 1 M4 hole with the depth of 4.4 mm in the bottom stage |
|  |  | 1 M4 hole with the depth of 3.6 mm in the upper stage |
|  | Assembly grooves in the bottom stage | Two grooves symmetrically along the motion direction on both sides of the element, width 1.8 ± 0.2 mm, height (distance from mounting surface) of 1.6 ± 0.1 mm |
|  | Assembly grooves in the upper stage | Two grooves along the motion direction symmetrically on both sides of the element, width of 1.8 ± 0.2 mm, height (distance from mounting surface) of 1.6 ± 0.1 mm |
|  | Micrometric screw | Pitch: 0.35 mm |
|  |  | Length: 12.7 mm |