

**Table de Micro Positionnement miniature  $\mu$ TMP 16-1560-10**

UPDATE : 25/09/2015

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**$\mu$ TMP ensure high precision motion of equipment, part or sample....**



Non Contractual photo

$\mu$ TMP 16-1560-10 is equipped with a crossed roller bearings providing, in a minimal size, good stiffness and high precision...

The motion is operated by an irreversible screw-nut system with backlash compensation.

An optical sensor enables to repositionnate the stage on its stroke.

A stepper motor enables to combine precision, torque and speed.

The stage are compatible to a vacuum use (10<sup>-6</sup>mbar maximum). In this version the stage has an untreated aluminium color (no black anodization)

UHV (10<sup>-8</sup>mbar max) version is possible as an option. Grease and materials are adapted to reduce degassing, such lubrications:

- Lubrication (motor, screw-nut, guiding)
- Adhesive Epoxy
- Cable PTFE - Steel Screw and bolts

## Table de Micro Positionnement miniature $\mu$ TMP 16-1560-10

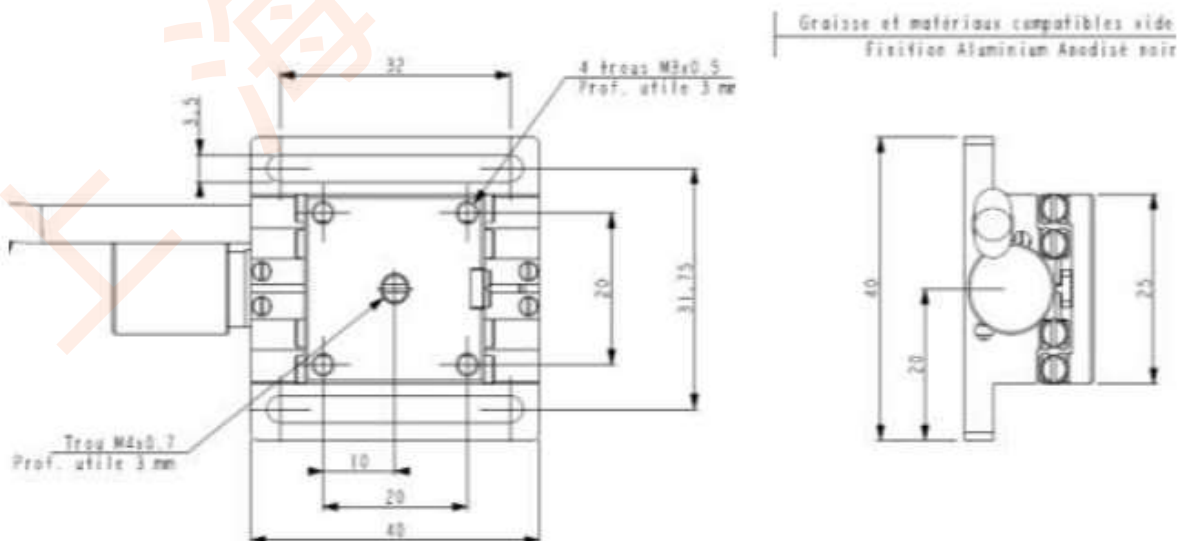
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### Technical Specifications :

| Caracteristics (without options)          | Values             |
|---|--------------------|
| Stroke                                    | 16 mm              |
| Resolution                                | 1.56 $\mu$ m / pas |
| Repetability                              | < 3 $\mu$ m        |
| Speed                                     | 1.5 mm/s           |
| Loading Capacity                          | 10 N               |
| Hybride Stepper motor                     |                    |
| Polarized and irreversible board          |                    |
| Optical sensor                            |                    |
| Black anodized aluminum finish            |                    |
| Grease and materials compatible to vacuum |                    |

### Dimension : (plan)



## Compact miniature micro-positioning stage $\mu$ TMP C- 6-200-10

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### **$\mu$ TMP ensure high precision motion of equipment, part or sample....**

$\mu$ TMP C 6-200-10 is the smallest stage of our range.

Equipped with a crossed roller bearings without recirculating and prestressed. Provide in a minimal size, good stiffness and high precision.

The motion is operated by an irreversible screw-nut system with backlash compensation.

A stepper motor enables to combine precision, torque and speed.

Resolution and speed can be easily adapted.



Non contractual photo

#### Various versions:

- Standard, PA use, black anodization possible.
- Use on Vacuum and high vacuum. Wire and modified grease, untreated aluminium color.
- UHV version. Motor, materials, glue and modified lubrication are adaptable on request.

## Compact miniature micro-positioning stage $\mu$ TMP C- 6-200-10

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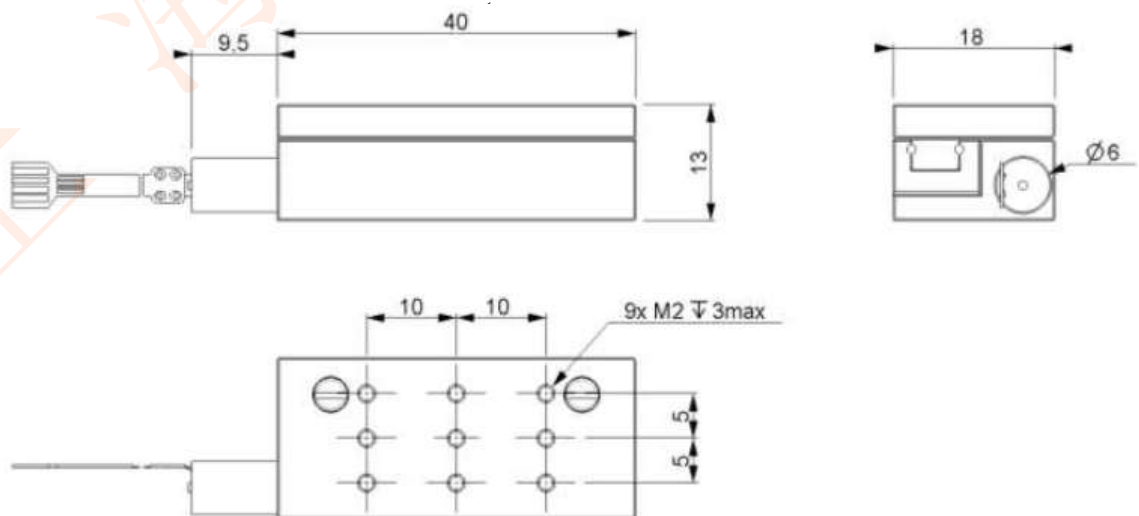
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### Technical Specifications:

| Characteristics (without options)                                | Values        |
|--|---------------|
| Travel range   | 6 mm (+/-3mm) |
| Resolution   | 200 nm / pas  |
| Repetability   | < 3 $\mu$ m   |
| Speed  | 0.2 mm/s      |
| Load capacity  | 10 N          |
| Hybride stepper motor  |               |
| Polarized and irreversible board                                 |               |
| Reset on mechanical stop. External captor on motor side (option) |               |

\*Resolution and speed values can be adapted on demand

### Dimension (mm):



**Compact Micro Positioning Stage  $\mu$ TMP 32-1560-10**

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**$\mu$ TMP ensure high precision motion of equipment, part or sample....**

*Non contractual photo*

$\mu$ TMP 32-1560-10 is equipped with a crossed roller bearings providing, in a minimal size, good stiffness and high precision.

The motion is operated by an irreversible screw-nut system with backlash compensation

An optical sensor enables to repositionnate the stage on its stroke.

A stepper motor enables to combine precision, torque and speed.

The stage are compatible to a vacuum use ( $10^{-6}$ mbar maximum). In this version the stage has an untreated aluminium color (no black anodization)

UHV ( $10^{-8}$ mbar max) version is possible as an option. Grease and materials are adapted to reduce degassing, such lubrications:

- Lubrication (motor, screw-nut, guiding)
- Adhesive Epoxy
- Cable PTFE
- Steel Screw and bolts

## Compact Micro Positioning Stage $\mu$ TMP 32-1560-10

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### Technical Specifications :

| Caracteristics (without options)          | Values              |
|---|---------------------|
| Stroke                                    | 32 mm               |
| Resolution                                | 1.56 $\mu$ m / step |
| Repetability                              | < 3 $\mu$ m         |
| speed                                     | 1.5 mm/s            |
| Loading capacity                          | 10 N                |
| Hybride stepper motor                     |                     |
| Polarized and irreversible board          |                     |
| Optical sensor                            |                     |
| Black anodized aluminum finish            |                     |
| Grease and materials compatible to vacuum |                     |

### Dimension :

