

# X Axis Aluminum Translation Stages

## XY Axis Aluminum Translation Stages

TADC-601

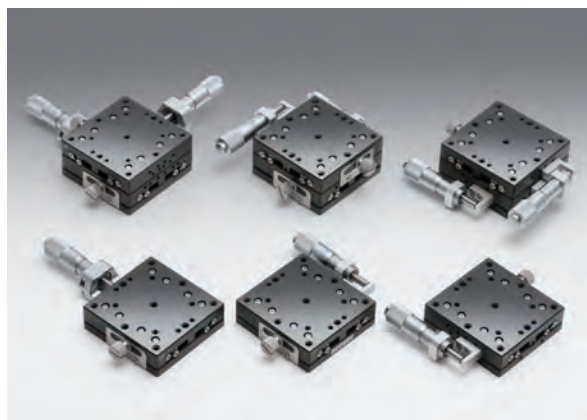
TADC-602W

Stage Size 60 × 60 mm

RoHS

**Aluminum translation stage with high stiffness bearing ways. Cost effective and light weight.**

- Unique steel bearing ways with 4-point extended contact yield stable load capacity in all directions.
- Long life, maintenance free.



### Attention

- Micrometer brackets may extend above the top surface of some stages. Check drawings for more information.

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Crossed Roller

Dovetail

Lapping

V Groove Screw

Others

15 × 15 mm

25 × 25 mm

40 × 40 mm

60 × 60 mm

65 × 65 mm

80 × 80 mm

100 × 100 mm

120 × 120 mm

Others

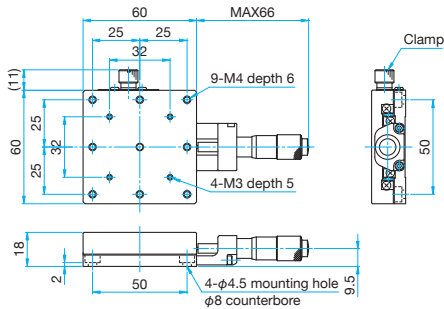
### Specifications

| Part Number                         | METRIC            | TADC-601C                           | TADC-601S     | TADC-602WC    | TADC-602WS    |
|-------------------------------------|-------------------|-------------------------------------|---------------|---------------|---------------|
| (Opposite Model)                    | METRIC            | —                                   | TADC-601SR    | —             | TADC-602WSR   |
| Stage Size [mm]                     |                   | 60×60                               | 60×60         | 60×60         | 60×60         |
| Axes of Travel                      |                   | X axis                              |               | XY axis       |               |
| Micrometer Position                 |                   | Center                              | Side          | Center        | Side          |
| Travel [mm]                         |                   | ±6.5                                | ±6.5          | ±6.5          | ±6.5          |
| Lead of Actuator [mm/rotation]      |                   | 0.5                                 | 0.5           | 0.5           | 0.5           |
| Micrometer Readable Resolution [mm] |                   | 0.01                                | 0.01          | 0.01          | 0.01          |
| Guide Method                        |                   | Extended contact ball bearing guide |               |               |               |
| Primary Material                    |                   | Aluminum                            |               |               |               |
| Finish                              |                   | Black anodized                      |               |               |               |
| Load Capacity [N]                   |                   | 196 (20.0kgf)                       | 196 (20.0kgf) | 196 (20.0kgf) | 196 (20.0kgf) |
| Travel Accuracy                     | Straightness [μm] | 3                                   | 3             | 3             | 3             |
| Max. Moment Capacity                | Pitch [N·m]       | 4.9                                 | 4.9           | 4.9           | 4.9           |
|                                     | Roll [N·m]        | 4.9                                 | 4.9           | 4.9           | 4.9           |
|                                     | Yaw [N·m]         | 4.9                                 | 4.9           | 4.9           | 4.9           |
| Moment Stiffness                    | Pitch [°/N·cm]    | 0.3                                 | 0.3           | 0.6           | 0.6           |
|                                     | Roll [°/N·cm]     | 0.25                                | 0.25          | 0.6           | 0.6           |
| Parallelism [μm]                    |                   | 30                                  | 30            | 50            | 50            |
| Running Parallelism [μm]            |                   | 10                                  | 10            | 20            | 20            |
| Orthogonality [μm]                  |                   | —                                   | —             | 10            | 10            |
| Weight [kg]                         |                   | 0.2                                 | 0.2           | 0.4           | 0.4           |

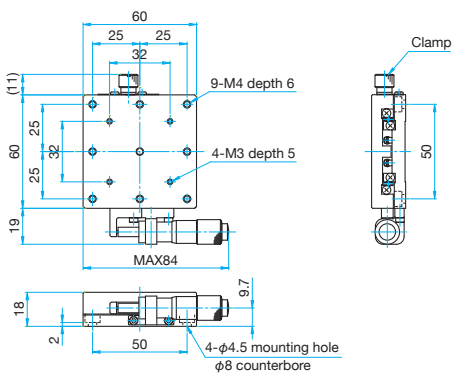


## Outline Drawing

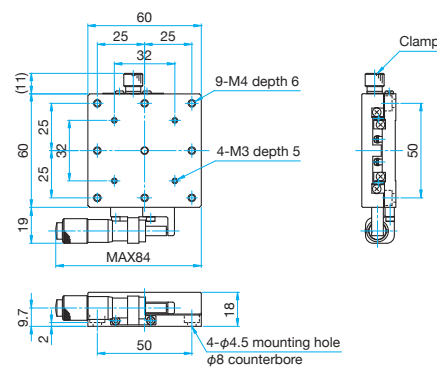
**TADC-601C** Hexagon socket head cap screw (stainless steel construction) M4×6...4 screws



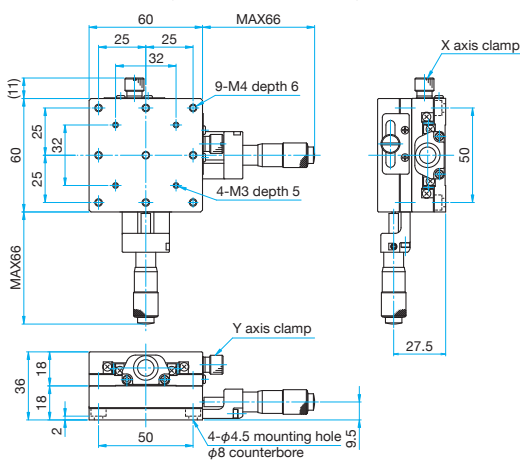
**TADC-601S** Hexagon socket head cap screw (stainless steel construction) M4×6...4 screws



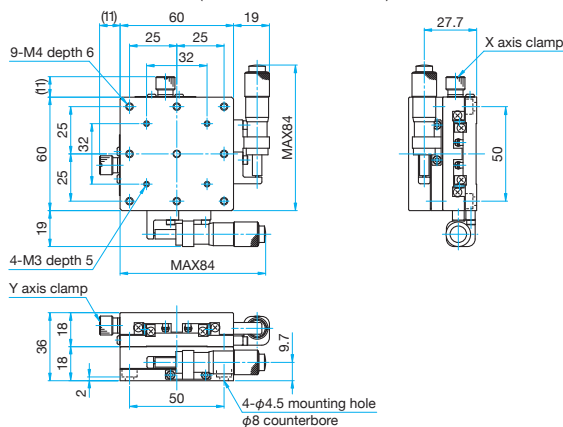
**TADC-601SR** Hexagon socket head cap screw (stainless steel construction) M4×6...4 screws



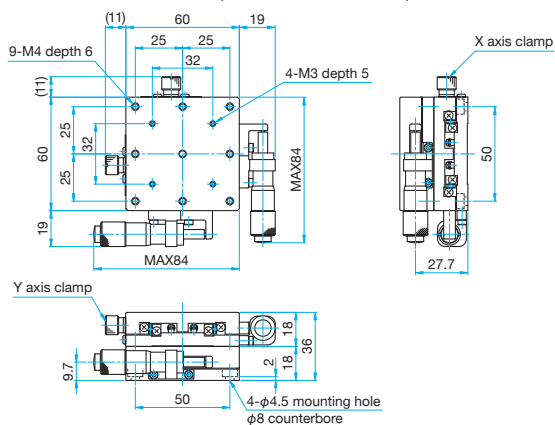
**TADC-602WC** Hexagon socket head cap screw (stainless steel construction) M4×6...4 screws



**TADC-602WS** Hexagon socket head cap screw (stainless steel construction) M4×6...4 screws



**TADC-602WSR** Hexagon socket head cap screw (stainless steel construction) M4×6...4 screws



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