Aluminium Optical Rails

- Easy sliding and fixing
- Scale engraved
- Material: black anodized aluminium
- High stability

<table>
<thead>
<tr>
<th>Model</th>
<th>Length, mm</th>
<th>A</th>
<th>N</th>
<th>B</th>
<th>D</th>
<th>C</th>
<th>Weight, kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>2OR02-150</td>
<td>150</td>
<td>-</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>0.36</td>
</tr>
<tr>
<td>2OR02-270</td>
<td>270</td>
<td>2</td>
<td>6</td>
<td>3</td>
<td>2</td>
<td>100</td>
<td>0.66</td>
</tr>
<tr>
<td>2OR02-470</td>
<td>470</td>
<td>4</td>
<td>12</td>
<td>5</td>
<td>2</td>
<td>300</td>
<td>1.16</td>
</tr>
<tr>
<td>2OR02-670</td>
<td>670</td>
<td>6</td>
<td>18</td>
<td>7</td>
<td>2</td>
<td>500</td>
<td>1.65</td>
</tr>
<tr>
<td>2OR02-800</td>
<td>800</td>
<td>7</td>
<td>21</td>
<td>8</td>
<td>2</td>
<td>600</td>
<td>2.00</td>
</tr>
<tr>
<td>2OR02-1000</td>
<td>1000</td>
<td>9</td>
<td>27</td>
<td>10</td>
<td>2</td>
<td>800</td>
<td>2.40</td>
</tr>
</tbody>
</table>

Aluminium Rail Carriers

- Two locking options: by integrated spring clip, and by a fixing screw
- Quick and easy sliding
- Material: black anodized aluminium

To release and to move, or to lift the carrier you push the lever of the clip. To stop the carrier firmly, use the fixing screw. Rather than grinding against, and damaging the rail with its tip, the screw gently clamps to the rail the wide tenon of the clip.

The clip is preloaded by a spring. Its lever is removable (on a thread).
Steel Optical Rails

Brackets & Rails

The Optical Rails 2OR6 have low profile and are made of hardened steel. Rails have patterns of \textit{M6} tapped holes and of \textit{6.4 mm} clearance slots. The holes and slots are used for mounting on optical plates, on opto-mechanical elements and for interconnections.

See related article 10ORS6.

\begin{tabular}{|c|c|c|c|c|}
\hline
Model & L, mm & B & m & Weight, kg \\
\hline
2OR6-55 & 55 & 1 & 1 & 0.15 \\
2OR6-55T & 55 & 2 & 1 & 0.15 \\
2OR6-270 & 270 & 2 & 8 & 0.76 \\
2OR6-470 & 470 & 4 & 14 & 1.36 \\
2OR6-670 & 670 & 6 & 20 & 1.93 \\
\hline
\end{tabular}

Rails with transversal clearance slots 2OR6-55T are available to special orders.

Steel Rail Carriers

The Rail Carriers 2RC6-50, 2RC6-25 may be quickly lifted and set again on a rail. Slide the carrier to any point on the rail and secure it with the fixing screw.

The carriers have patterns of \textit{M6} and \textit{Ø6.4 mm} mounting holes used to fasten other units. 2RC6-50H has a \textit{Ø18 mm} clear aperture. An article Mini Optical Rail System 10ORS6 gives examples of use of the carriers.

Precision Carriers 2RC6 come in two widths: \textit{25 mm} and \textit{50 mm}. Carrier 2RC6 may be used as a reference for repeated positioning. Units, such as 2RC6-50H, 7T8-01, may be reinserted exactly into the same position next to the reference carrier.

Rail Carriers are made of black finished hardened steel.

Weight: 2RC6-50 0.16 kg  
2RC6-50H 0.15 kg  
2RC6-25 0.08 kg
Steel Sliding Rail Carrier

**2SRC6-50**

**Sliding Rail Carrier 2SRC6-50** – a universal platform, which has additional upper rails, orthogonal to lower base rails.

The Carrier allows to attach any unit of **10ORS6 system** on the rail **2OR6**, to move it easily along the Optical Rail and to fix it across within ±15 mm.

The carrier has a pattern of M6 and Ø6.4 mounting holes. Sliding Rail Carrier is made of black finished hardened steel.

Weight 0.14 kg

**Stacked** rail carriers enable **only coarse** adjustment on axes XY. For **fine** adjustment use horizontal translators **7T8-01**.

**Z axis** translator **7T8-02** can point its Ø15 aperture 90° to the side – on single – or along the rail – on stacked carriers.

**Multiple Mounting Plates**

**2MP**

**Multiple Mounting Plates 2MP** allow to assemble groups of accessories mounted in close proximity and acting as one unit (e.g. a compound lens).

For example, the slot of the plate 2MP allows to mount Lens Holders **4LM149** using M6 screws from beneath. Their positions can be adjusted on the plate.

2MP can be attached to tables, breadboards and rods of both metric and imperial standards at the desired height and orientation.

Material – black anodized aluminium.

<table>
<thead>
<tr>
<th>Model</th>
<th>L, mm</th>
<th>l, mm</th>
<th>Weight, kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>2MP-30</td>
<td>300</td>
<td>265</td>
<td>0.5</td>
</tr>
<tr>
<td>2MP-20</td>
<td>200</td>
<td>165</td>
<td>0.35</td>
</tr>
</tbody>
</table>
Brackets & Rails

Construction Rails / Optical Rails

1. Optical Rail System
2. Small Optical Rails
3. Available in sizes ranging from 75 mm (3") to 600 mm (24")
4. Compact Low-profile dovetail design
5. Precision CNC machined on all surfaces
6. Material: black anodized aluminium

**Model** | **L, mm** | **n** | **l** | **Weight, kg**
---|---|---|---|---
2OR19-75 | 75 | 2 | 25 | 0.025
2OR19-125 | 125 | 4 | 75 | 0.04
2OR19-150 | 150 | 5 | 100 | 0.05
2OR19-300 | 300 | 7 | 100 | 0.1
2OR19-450 | 450 | 13 | 250 | 0.15
2OR19-600 | 600 | 19 | 400 | 0.2

Optical Rail Accessories

1. Rail carrier
2. Essential Carriers for Optical Rail Setups
3. Compact Dovetail design
4. Precision Machined dovetail clamps
5. Material: black anodized aluminium

**2RC19-25 • 2RC19-50**

Using Adapter Ring 2ARM6-M4 it is possible to use M4 (#8-32) screw in a mounting hole that was counter-bored for a M6 (1/4"-20) screw.
Multiple Mounting Joist

Joist 2MJ63 may be used, for example, to hold an assembly of long optical elements kept by two lens mounts (4LM42, 4LM149). The joist can be attached to tables, posts, and rods at the desired elevation and orientation. Material: black finished steel.

Weight 0.1 kg

Silent Rods

- Antivibration filling
- Ø32 mm stainless steel rod
- M6 tapped holes on both ends
- Designed for use with breadboards up to 0.5 m² square surface

Great stiffness, sturdiness and strength of steel allow the rods to support large loads with great stability.

Each rod has M6 tapped holes on, and a groove around both ends. So, for mounting to tables, you may use adapters 3AH, and clamps like 3UTC, 3TC5.

A Silent Rod consists of a stainless steel tube filled with vibration damping plastic. Even without external damping elements applied, the rods have high resonant frequency and low vibration amplitudes.

Great stiffness, sturdiness and strength of steel allow the rods to support large loads with great stability.

Material: black finished steel.

Adjustable Mounting Block

Adjustable Mounting Block 2AMB is a platform, which attaches to Silent Rods 2SR32. It has a pattern of M6 and M4 holes for attachment of components.

The orientation is adjusted by 4 screws in the range of 5° in all angular coordinates.

The same screws are used to fix the unit on the Silent Rod.

Material: black anodized aluminium.

Model | L, mm | Weight, kg
--- | --- | ---
2SR32-10 | 100 | 0.26
2SR32-20 | 200 | 0.54
2SR32-30 | 300 | 0.77
Brackets & Rails

Angle Brackets

Rigid, 90° angled mounting plates. Use them to transform “horizontal” translators into vertical ones. Orient rod mounted accessories parallel to the table surface. Create adjustable height supports for most optical accessories.

Angle Bracket

- Weight – 0.11 kg
- Black anodized aluminium
- Designed to be used with
  - 7T173-10
  - 7T173-20
  - 8MT173-20

![Angle Bracket](image)

**2AB173-20**

- Weight – 0.45 kg
- Black anodized aluminium
- Designed to be used with
  - 7T175-50
  - 7T175-100
  - 7T175-150
  - 8MT175-50
  - 8MT175-100
  - 8MT175-150
  - 8MT175-200
  - 8MT177-100
  - 8MT50-100
  - 8MT50-150
  - 8MT50-200

![Angle Bracket](image)

**2AB175**

- Weight – 0.45 kg
- Black anodized aluminium
- Designed to be used with
  - 7T175-50
  - 7T175-100
  - 7T175-150
  - 8MT175-50
  - 8MT175-100
  - 8MT175-150
  - 8MT175-200
  - 8MT177-100
  - 8MT50-100
  - 8MT50-150
  - 8MT50-200
Angle Bracket 2AB164

- Weight – 0.06 kg
- Black anodized aluminium
- Designed to be used with
  7T164-10
  7T264-10
  7T273-10

Angle Bracket 2AB128

- Weight – 0.02 kg
- Black anodized aluminium
- Designed to be used with
  7T128
  7R128
  7T228T
Brackets & Rails

Angle Bracket

- Weight – 0.13 kg
- Black anodized aluminium
- Designed to be used with 7T38

Angle Bracket

- Weight – 0.1 kg
- Black anodized aluminium
- Designed to be used with 7R174, 7T184-13, 8MT184-13

Angle Bracket

- Weight – 0.13 kg
- Stainless steel
- Designed to be used with 7T67-6

Angle Bracket

- Weight – 0.3 kg
- Black anodized aluminium
- Designed to be used with 7T167-25, 8MT167-25

Phone: +370-5-2651474  Fax: +370-5-2651483  e-mail: sales@standa.lt  http://www.standa.lt
Angle Bracket

**2AB167-50**

- Weight – 0.4 kg
- Black anodized aluminium
- Designed to be used with
  7T167-50
  8MT167-100

![Angle Bracket Diagram](image)

**2AB67-25**

- Weight
  2AB67-25 – 0.24 kg
  2AB67SS-25 – 0.24 kg
  2AB67-25-Al – 0.16 kg
- Material
  2AB67-25 – steel
  2AB67SS-25 – stainless steel
  2AB67-25-Al – black anodized aluminium
- Designed to be used with
  2AB67-25 – 7T67-25
  2AB67SS-25 – 7T67SS-25
  2AB67-25-Al – 7T68-25, 7T68-25T
Brackets & Rails

Angle Bracket

- Angle bracket for multi-purpose applications
- Weight – 0.15 kg
- Black anodized aluminium

Mini Angle Brackets

Mini Angle Brackets 2MAB111 are used to increase functions of Mini and Micro series Optical positioners 5BM121 and 5OM111.

Model 2MAB111-01 allows to establish any angle of a positioner. 2MAB111-02 also allows height and position adjustment, as it has two 4.2 mm clearance slots.

Mini Angle Brackets are made from black anodized aluminium.

Weight: 2MAB111-01 0.01 kg
2MAB111-02 0.01 kg

For coarse adjustment about horizontal axis compact Mirror mounts can be used with Mini Angle Brackets.