Universal Adjustable Lens/Optics Mounts

**Universal Adjustable Lens/Optics Mounts 4LM149-10 and 4LM149-05**

4LM149-10 and 4LM149-05 are used to accommodate any round any thickness objects as lenses, mirrors and lasers. Three support shafts of holder are assembled with non-rotating V-groove aluminium universal interchangeable tips for lenses mirrors, etc. While not in use the new non-abrasive flat teflon face aluminium tips for lasers are kept in special holes on aluminium support ring. Long objects like cylindrical laser heads can be held with two chucks together with Multiple Mounting Plates 2MP.

Each individual adjustable shaft of holder incorporates threaded thumbscrew, sliding sleeve and fixation tool for rough positioning and diameter setting. It is enough to give only a twist thumbscrew of the shaft to provide a fine adjustment travel.

Three various mounting holes M4, M6, and Ø6.4, Ø11x4 provides various and easy attachment possibilities to the Tables, Breadboards and the STANDA Rod Holder system.

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>A, mm</th>
<th>B, mm</th>
<th>C, mm</th>
<th>H, mm</th>
<th>Weight, kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>4LM149-10</td>
<td>164-210</td>
<td>158-185</td>
<td>38-103</td>
<td>65.7</td>
<td>0.3</td>
</tr>
<tr>
<td>4LM149-05</td>
<td>134-164</td>
<td>124-141</td>
<td>10-66</td>
<td>49.1</td>
<td>0.25</td>
</tr>
</tbody>
</table>

**Optical Component Mounts**

**Optical Component Mounts 4OCM**

4OCM can be used to hold round and thin optical elements of standard sizes. Mounts vary in dimensions so as to support diameters from 10 to 50 mm (0.5” to 2”). Original design allows to decrease the mount’s dimensions and weight.

Mounting holes: one M6 and two Ø4.5 mm.

Material: black aluminium.

### Optical Component Mounts Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4OCM-10</td>
<td>12.7 (0.5”)</td>
<td>26</td>
<td>8</td>
<td>12</td>
<td>10</td>
<td>13.5</td>
<td>8.5</td>
<td>0.01 kg</td>
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<tr>
<td>4OCM-20</td>
<td>20</td>
<td>33</td>
<td>17</td>
<td>12</td>
<td>10</td>
<td>18.8</td>
<td>13.8</td>
<td>0.02 kg</td>
</tr>
<tr>
<td>4OCM-25</td>
<td>25.4 (1”)</td>
<td>38</td>
<td>23</td>
<td>12</td>
<td>10</td>
<td>21.3</td>
<td>16.3</td>
<td>0.02 kg</td>
</tr>
<tr>
<td>4OCM-30</td>
<td>30</td>
<td>40</td>
<td>37</td>
<td>18</td>
<td>16</td>
<td>28.8</td>
<td>23.8</td>
<td>0.04 kg</td>
</tr>
<tr>
<td>4OCM-40</td>
<td>40</td>
<td>53</td>
<td>37</td>
<td>18</td>
<td>16</td>
<td>34.8</td>
<td>29.8</td>
<td>0.05 kg</td>
</tr>
<tr>
<td>4OCM-50</td>
<td>50.8 (2”)</td>
<td>65</td>
<td>48</td>
<td>18</td>
<td>16</td>
<td>46.5</td>
<td>42</td>
<td>0.06 kg</td>
</tr>
</tbody>
</table>
Self-Centering Lens/Optics Mounts reliably centres and securely holds round optics and cylindrical objects. This device is particularly valuable when lenses of different diameters are being used interchangeably, as repeated centering at constant height is necessary.

When released the three arms grip the lens in deep grooved jaws, automatically centering the lens within the holder.

The Self-Centering Lens/Optics Mounts can mount on STANDA Posts for easy adjustment of vertical height and azimuthal angle.

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight, kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>4LM13-40</td>
<td>0.07</td>
</tr>
<tr>
<td>4SCML-2</td>
<td>0.19</td>
</tr>
<tr>
<td>4SCML-4</td>
<td>0.38</td>
</tr>
</tbody>
</table>

- 40 mm, 2”, 4” optics mounts
- Easy insertion and removal of optics
Self-Centering Lens/Optics Mount 4SCML-8 • 4SCML-12

- For optics up to 8" and up to 12" in diameter
- 4SCML-8 adjustable range from 1" (25 mm) to 8" (203 mm)
- 4SCML-12 adjustable range from 3" (76 mm) to 12" (305 mm)
- Made of black anodized aluminium and black oxidation steel

Self-Centering Optics Mount 4SCML reliably centres and securely holds round optics and cylindrical objects. This device is particularly valuable when lenses of different diameters are being used interchangeably and repeated centering at constant height is necessary. The Self-Centering Optics Mount 4SCML-8 accommodates optics up to 8 inch (203.2 mm), 4SCML-12 – up to 12 inch (305 mm) and is oversized to provide easy finger access for inserting and removing optics. Optical elements are fixed and centered at the same time by adjusting driving screw at the top of the device. Heavy optical components are secured by wedged rods.

4SCML-8.13 is our recommended Base Plate used to fix 4SCML-8 to optical table or other suitable bases. Mounting base plates of different shapes can be manufactured to customer’s order. Default package does not include 4SCML-8.13 Base Plate and it must be ordered separately.
Optical Mounts

Big Optical Mount

- Optics diameter 115 ÷ 250 mm
- Optics thickness 52 mm
- Load capacity 6 kg
- Weight 5.3 kg

Big Optical Mount for large and heavy optics.

Adjustable Radius Optics Mounts

- For lenses, mirrors, lasers - any round objects
- Lenses are easily removed and replaced
- Accommodate any lens shape and thickness

An Adjustable Radius Optics Mount 4LM42 provide rigid support and assured orientation for round objects of virtually any thickness and length.

Installing optics is easy: set the lower support rods at any desired radius, insert your element, and adjust the top rod downward for secure hold of the optics. Long objects can be held by two holders together with the Multiple Mounting Joist 2MJ63.

The black anodized aluminum rings have M6 tapped hole for attachment to any STANDA Stage, Table or Support, including STANDA Mounting Posts 3MP6. The Adjustable Radius Optics Mount 4LM42 has three black finished steel plungers and all of them are screw adjustable. This mount accepts lenses with edge thickness of up to 6.5 mm.

<table>
<thead>
<tr>
<th>Model</th>
<th>B, mm</th>
<th>D, mm</th>
<th>H_max, mm</th>
<th>h, mm</th>
<th>d_min, mm</th>
<th>d_max, mm</th>
<th>Weight, kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>4LM42-40</td>
<td>Ø69</td>
<td>Ø55</td>
<td>100</td>
<td>34.5</td>
<td>Ø6</td>
<td>Ø40</td>
<td>0.06</td>
</tr>
<tr>
<td>4LM42-2</td>
<td>Ø82</td>
<td>Ø68</td>
<td>120</td>
<td>41</td>
<td>Ø12.7</td>
<td>Ø50.8</td>
<td>0.07</td>
</tr>
</tbody>
</table>
Push Holder

- Special method of fixation
- Holds optics of 12.5 to 42 mm diameter
- Holds thin lenses or long-barrel lens assemblies

Push Holders 4H29 holds optics of any shape or configuration: round and rectangular, with negligible loss of clear aperture, even at large angles of incidence. The top support is clamped in position pushing the special place and tightening the knurled screw. This provides gentle but firm fixation. After mounting the component and holder can be exchanged completely as one unit. The Push Holder 4H29 are made of black anodized aluminium.

Weight: 0.14 kg

Adjustable Height V-Mount

- Special method of fixation
- Holds optics of 12.5 mm (0.5") to 89 mm (3.5") diameter
- Clamping screw with V-shaped swivel head
- Material: black anodized aluminium
- Weight 0.1 kg

Application suggestion 4H29 and 4H89

Plate Clamp

Plate Clamp 4PC69 holds thin light-weight plates, like filters, transparencies, resolution targets and razor blades used in knife edge experiments.

These black finished steel Clamps may be directly screwed for example to the mounting stud of a Mounting Post 3MP6 or to a Base Plate with Rotary Clamp 3EXC45.

Weight: 0.04 kg
**Multiple Filter Holder**

Multiple Filter Holder 4FH56 allows fixation of up to 6 filters. The thickness of the optical filter or plate to be held is from 2 mm to 6 mm. The Holder is made of black finished steel. Separators are made of plastic. M6 tapped mounting holes provide L and V oriented filter positioning.

Weight: 0.12 kg

**Universal Plate Holder**

Universal Plate Holder 4PH132 holds long and thick components, and can fix elements from 0 to 12 mm in thickness. M6 hole for mounting on posts provided in base.

Weight: 0.07 kg

Suitable for Optics of Various Shapes

**UNIVERSAL PLATE HOLDER 4PH132**
Multiple Filters Holder

- Designed for 2" Square Filters
- Filter Thickness 3mm
- Can Mount 10 Filters
- Material: black anodized aluminium

4OFH-10 Multiple Filter Holder provides convenient means of working with large number of optical filters, especially when filters are changed frequently.

Can be used as a low-cost replacement of filter attenuator.

Application suggestion 4OFH-10

4OFH-10 Multiple Filters Holder

Complete general and polarizing OPTICS CATALOGUE now available from Standa!

Ask for a free copy!
Bar Clamp 4BC32 and V-Clamp 4VC41 are used for clamping of components directly to flats like a surface of an optical table or translation stage. The V-Clamp 4VC41 is used to hold round optical elements such as lenses. The Bar Clamp 4BC32 is used to hold prismatic elements like glass blocks, prisms, cells. Clamp adjustment range (maximal gap) is 59 mm. The Bar Clamp 4BC32 and V-Clamp 4VC41 can be mounted anywhere where M6 threaded holes are available.

Weight: 0.07 kg

Spring Clamps 4SC are used to clamp components directly to surfaces of optical tables or translation stages. These Clamps are used to hold prismatic elements like glass blocks, prisms, cells.

The Spring Clamps 4SC have an M4 external screw and can be mounted anywhere where M4 threaded holes are available.

Weight 0.02 kg

4SC-28T (includes the adapter) is designed for Mirror/Optics Mount 5OM111 when it is used as a tilting table.

<table>
<thead>
<tr>
<th>Model</th>
<th>h (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4SC-52M4</td>
<td>0...52</td>
<td>65.5</td>
<td>40</td>
</tr>
<tr>
<td>4SC-28M4</td>
<td>0...28</td>
<td>41.5</td>
<td>26</td>
</tr>
</tbody>
</table>

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

Ideal if the mount is used as a tilt platform. A plastic clutching pad with a fixing screw allows clamping of optical elements up to 1". The rod has a mounting thread M3. So the clamp combines with any units, which has M3 holes.

<table>
<thead>
<tr>
<th>Model</th>
<th>H, mm</th>
<th>L, mm</th>
<th>B, mm</th>
<th>E, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5OM100A2</td>
<td>0...25.4</td>
<td>35</td>
<td>25</td>
<td>8</td>
</tr>
<tr>
<td>5OM122A2</td>
<td>0...40</td>
<td>50</td>
<td>35</td>
<td>15</td>
</tr>
</tbody>
</table>

Mounting Clamp

The Mounting Clamp 6PT110.03 with a spring-loaded disengagement knob allows easy insertion and removal of optical components up to 38 mm.

Adjustable Force Fiber Clamp

- V-Grooved insert has 5 different V-Grooves and one flat surface
- V-Grooves are suitable for fibers or cylindrical optical elements in the range of 125 µm to 2 mm in diameter
- Adjustable force fiber clamping arm, 20 to 250 g
- Knob on the top is for adjusting the clamping force
- Compatible with 7TF2

Fiber Cable Clamp

- This accessory prevents cabled fiber from being accidentally disturbed.
  Designed for cables fiber of 900 µm - 3 mm diameter
- Compatible with 7TF2