

1002628 Optical Precision Bench D, 1000 mm
1002629 Optical Precision Bench D, 2000 mm
1002630 Optical Precision Bench D, 500 mm
1002632 Swivel Joint for Optical Bench D
1012399 Support for Optical Bench D

Instruction sheet

11/15 Hh



- | | | | |
|---|------------------------------------|---|-----------------------------------|
| 1 | Optical Precision Bench D, 1000 mm | 3 | Support for Optical Bench D |
| 2 | Swivel Joint for Optical Bench D | 4 | Optical Precision Bench D, 500 mm |

1. Description

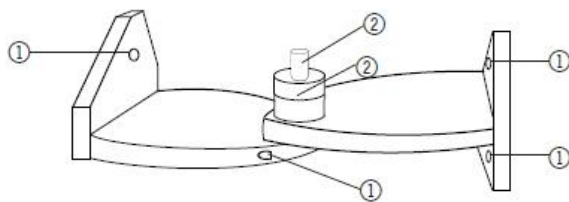
The optical bench and its accessories are used in experiments with optical components for research and demonstrations where the highest degree of precision is required for adjustment of axes and distance measurement.

The swivel joint permits experiment configurations where the beam path is deflected.

2.3 Swivel joint

The swivel joint consists of black anodised aluminium and can be swivelled around an angle of 90° in both directions. A protractor has been included to set the angle. In the rotational axis there is a sleeve to mount optical components.

Rotational angle:	± 90°
Protractor:	±180°
Scale division:	1°
Sleeve height:	60 mm
Span width for shaft:	10 mm up to 14 mm



- ① Drilled screw holes for fastening to the optical bench
- ② Mount for protractor and sleeve

Fig. 4 Swivel joint

3. Operation

3.1 Assembly of the rail supports

- Insert the square-socket screws into the guide groove under the profile rail and fasten by tightening them.
- Adjust the height using the adjustment screw.
- Use the grub-screw to secure the settings.

3.2 Assembly of the swivel joint

- Take off the front plate by loosening the three fastening screws.
- Place the swivel joint on the rail and secure it by tightening the three screws.
- Connect the swivel joint to the second rail in like fashion.

3.3 Recommended rider and assembly aids

For the assembly of elements in the optical axis:

- Optical rider:

Art. No.	Sleeve height	Base width
1012400	60 mm	50 mm
1002635	90 mm	50 mm
1002637	120 mm	50 mm
1002639	60 mm	36 mm
1012401	90 mm	36 mm
1012402	120 mm	36 mm

To tilt element out of the optical axis:

- Tilting Rider D (1012467)

To slide elements perpendicular to the optical bench axis:

- Sliding rider D (1002644)

To position elements adjacent to the optical axis:

- Extension Arm D (1002646)