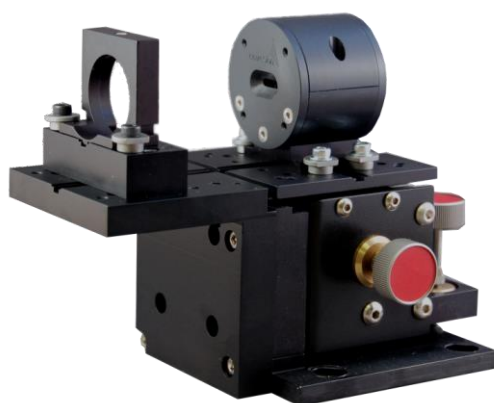


Device Specification

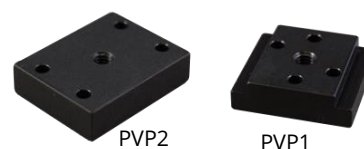
Version: 4.0/2024

Mounting Solutions



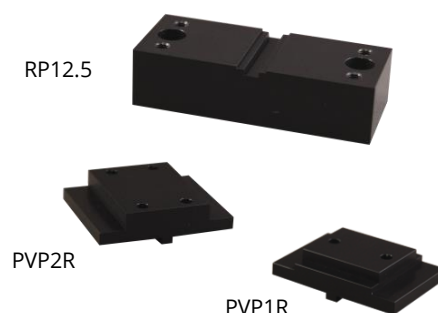
- Compatible with standard post mounts from major optomechanics suppliers, such as , Thorlabs and Newport.
- PV20 + PVPR2 have an optical height of 25mm above the flexure stage platform.

Part #	Description	Optical height
PVP1	PV10 post mount adapter	25mm
PVP2	PV20 and PV40 post mount adapter	25mm



- Compatible with standard flexure stages and mounts from major optomechanics suppliers, such as , Thorlabs and Newport.
- PV oven and adapter have an optical height of 25mm above the flexure stage platform.
- Riser plate, RP12.5, increases the optical height of standard flexure mounts from 12.5mm to 25mm.

Part #	Description	Optical height
PVP1R	PV10 adapter mount for flexure stages	25mm
PVP2R	PV20 and PV40 adapter mount for flexure stages	25mm
RP12.5	12.5mm Riser plate for flexure stage mounts	25mm



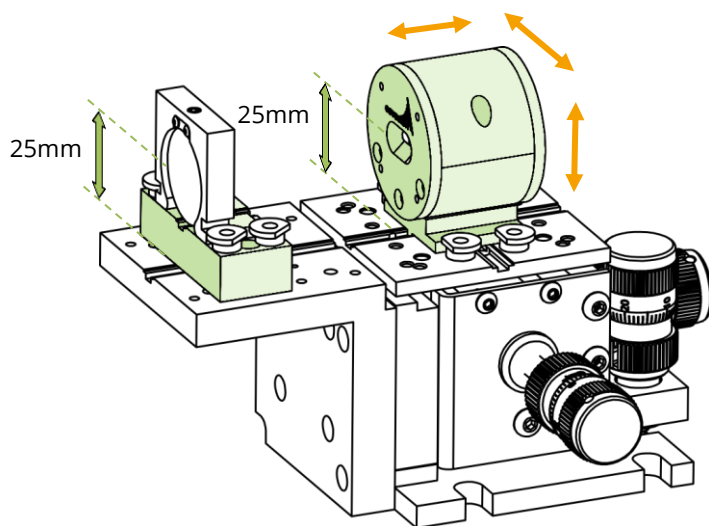
Mounting Solutions- Flexure Stages

Covesion's flexure mount adapters are designed to be compatible with a vast range of flexure stages, which are widely available at optomechanics suppliers. Originally designed for fiber alignment, these precision stages are ideal for MgO:PPLN grating alignment.

X, Y, Z

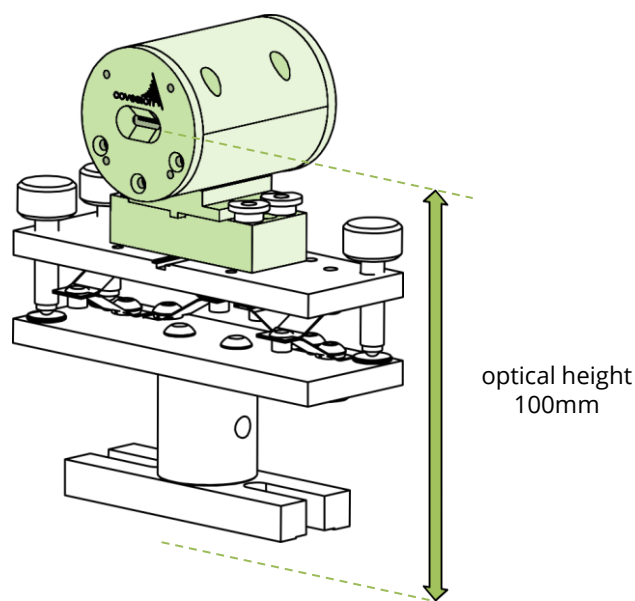
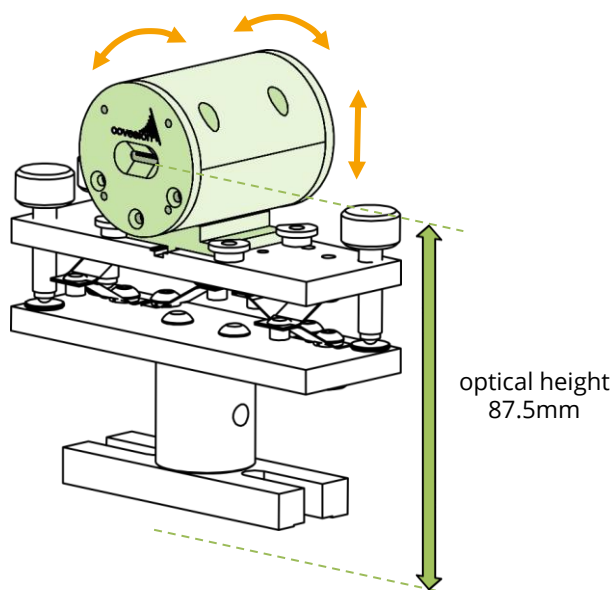
Allows high-precision alignment relative to focussing lens and translation through poled gratings

- Suitable for PV ovens
- Flexure mount adapters **PVP1R** and **PVP2R**
- **RP12.5** to increase the optical height of flexure optics mounts to 25mm.
- 3-axis flexure stage + platform bracket (available from e.g. Thorlabs, Newport, CVI Melles Griot)



Pitch, roll and height

- Suitable for PV ovens
- Flexure mount adapters **PVP1R** and **PVP2R**
- Thorlabs "Adjustable Height, Pitch and Roll Platform" (AMA027)
- Optional use of **RP12.5** to increase the optical height to 100mm



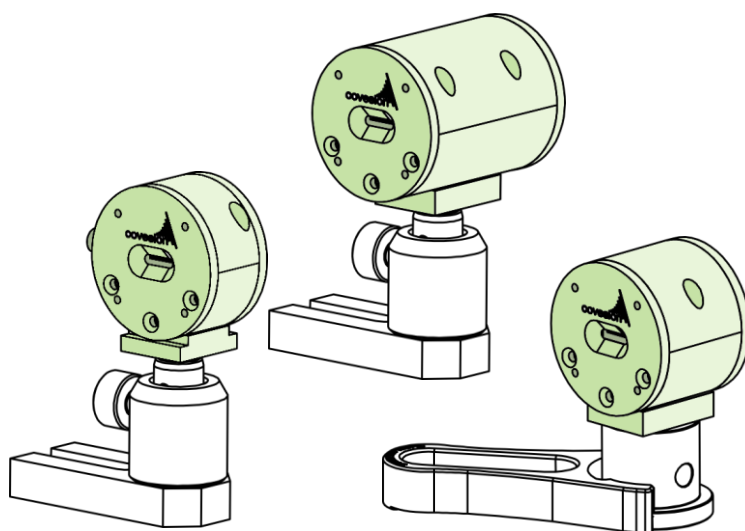
Mounting Solutions- Optical Posts

Covesion's post mount adapters are designed to be compatible with standard optics posts, which are widely available at optomechanics suppliers. These popular post assemblies provide a robust solution for MgO:PPLN mounting.

Post assemblies

Allows simple and robust alignment with a small footprint and will suit almost any optical height.

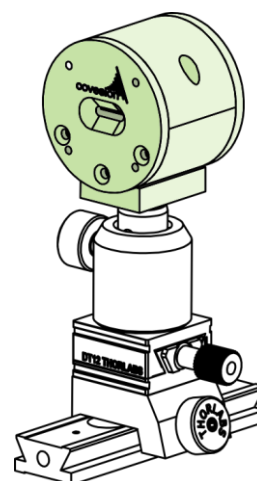
- Suitable for PV ovens
- Oven mount adapters **PVP1** and **PVP2**
- Ø1/2" or Ø1" post assemblies – widely available at e.g. Thorlabs, Newport, CVI Melles Griot



Post assemblies and rail systems

Post mounted optics can be easily incorporated into more complex arrangements such as rail systems.

- Suitable for PV ovens
- Post mount adapters **PVP1** and **PVP2**
- Post and post holder provide coarse vertical adjustment
- Dovetail rail provides coarse adjustment along optical path
- Dovetail single-axis translation stage provides fine adjustment through gratings



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