CVIP1 – CRYOGENIC VIBRATION ISOLATOR PLATFORM 1



Features

- 3 DoF vibration attenuation inside the cryostat
- Placed between cold plate and experiment
- High insensitivity to cables and thermal braids
- Compatible with JPE's CPSHR1 stage
- High Q factor (no forced damping)
- Non-magnetic
- Large central open aperture

Description / Applications

The CVIP1 is part of the CVIP series, a general use passive vibration isolation platform that is placed directly on the cold plate and carries the experiment, thus reducing z, Rx and Ry vibrations into the experiment. For practicality and ease of use the cut-off frequency, above which vibrations are attenuated, is designed in the tens of Hertz range thereby accepting transmittance of the less critical low frequency vibrations but enabling a substantial payload and having reduced sensitivity for attached wiring.

Specifications

General info	
Isolated axes	Z, Rx and Ry
Dimensions	See drawings below
Operational environmental conditions	20 mK to 375 K, ambient to UHV
Weight	0,15 kg
Frequencies and load capacity	
Payload	0,5 kg
Cut-off frequencies	Z: 42 Hz / Rx: 12 Hz / Ry 12 Hz (max payload, centered 35mm above platform)
Mechanical end stops	+/-0.5 mm
Materials	
Construction	Phosphor bronze
Model specific information	
-V, -HV or -UHV	Level of vacuum compatibility, see the glossary on the homepage for details

© JPE. Subject to change without notice. All data are outdated by any new release.
JPE disclaims any liability with regard to the accuracy, completeness, and timeliness of the information provided.

Ordering Information

Available Models

CVIP1-UHV	Cryogenic Vibration Isolator Platform 1

Available Options

None	Default delivery condition is Ultra High Vacuum compatible

Accessories

None

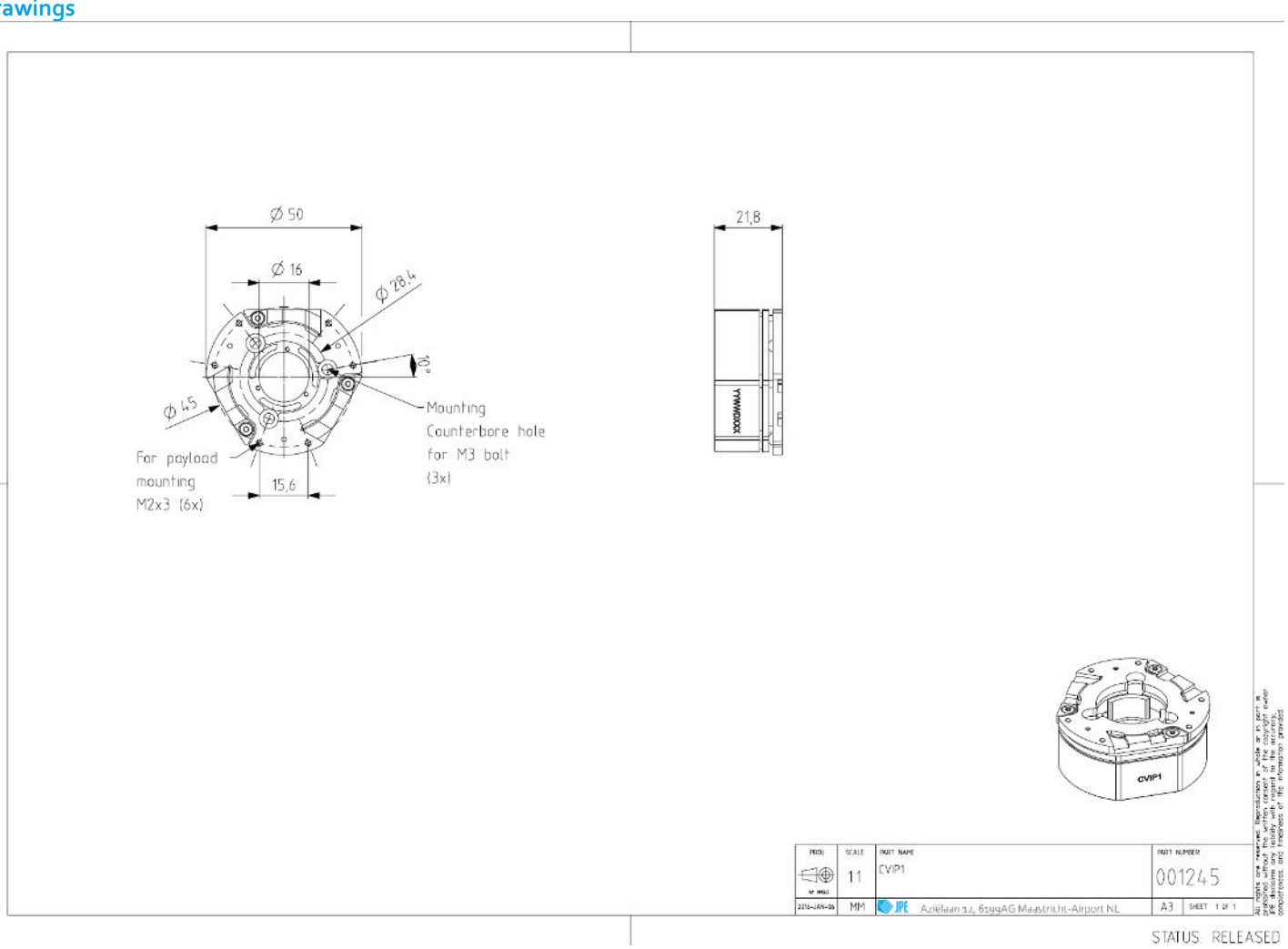
Mechanical and electrical information

Download 3D step files and manuals from:
https://www.jpe-innovations.com/cryo-nano-products/

Contact

For quotations, specials, or engineering services, please contact us at:
https://www.jpe-innovations.com/contact/

Drawings



© JPE. Subject to change without notice. All data are outdated by any new release.
JPE disclaims any liability with regard to the accuracy, completeness, and timeliness of the information provided.