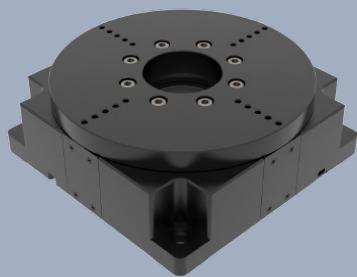


Piezo Stages

VenusLab Piezo Rotation Stages

High-Dynamic Precision Angle Control Systems

- Ultrasonic piezo drive for 90°/s speed and 5kg load.
- Closed-loop optical feedback for 0.0001° precision alignment.



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
+65 8099 5547



Visit Us
www.venuslabtech.com

Overview

Infinite Rotation, Absolute Precision

VenusLab Piezo Rotation Stages combine 360° continuous rotation and precision angular tilt in an ultra-compact footprint. Featuring zero-backlash piezo motors and high-resolution grating sensors, these stages provide the perfect balance of dynamic speed and sub-micron stability for complex multi-axis motion systems.

Applications

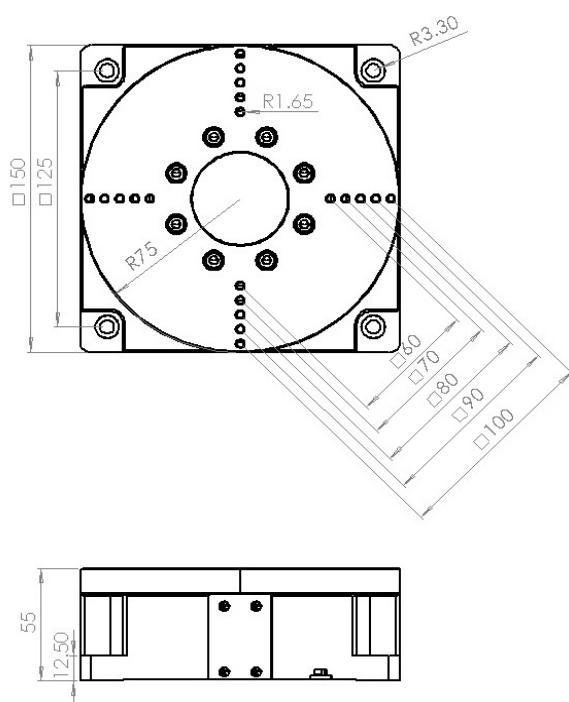
- Laser Beam Steering
- Wafer Inspection
- Crystal Orientation
- X-Ray Diffractometry

Technical Specifications

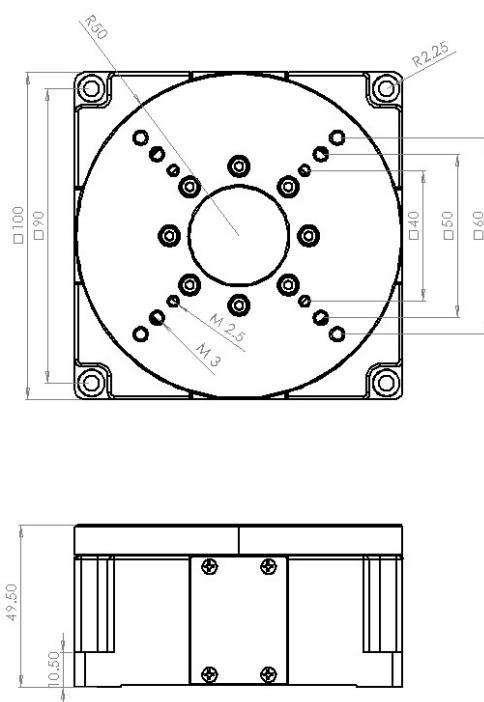
Model Name	Travel Range (°)	Drive Type	Max Load (kg)	Max Speed (°/s)	Min Step (°)	Repeatability (°)	Material	Weight (kg)
VL-PR150-360	360	Piezo Motor	5	30	0.001	+/- 0.002	Aluminum Alloy	3.1
VL-PR100-360	360	Piezo Motor	3	45	0.001	+/- 0.002	Aluminum Alloy	1.1
VL-PR080-360HS	360	Piezo Motor	2	90	0.001	+/- 0.002	Aluminum Alloy	1.1
VL-PR070-360HD	360	Piezo Motor	5	90	0.001	+/- 0.002	Aluminum Alloy	1.1
VL-PR060-360	360	Piezo Motor	3	45	0.001	+/- 0.002	Aluminum Alloy	0.5
VL-PG060-10-R125	10	Piezo Motor	1.0	15	0.0001	+/- 0.0002	Aluminum Alloy	0.5
VL-PG060-10-R100	10	Piezo Motor	1.0	15	0.0001	+/- 0.0002	Aluminum Alloy	0.5
VL-PG060-10-R75	10	Piezo Motor	1.0	15	0.0001	+/- 0.0002	Aluminum Alloy	0.5
VL-PG060-10-R50	10	Piezo Motor	1.0	15	0.0001	+/- 0.0002	Aluminum Alloy	0.5

Mechanical Dimensions

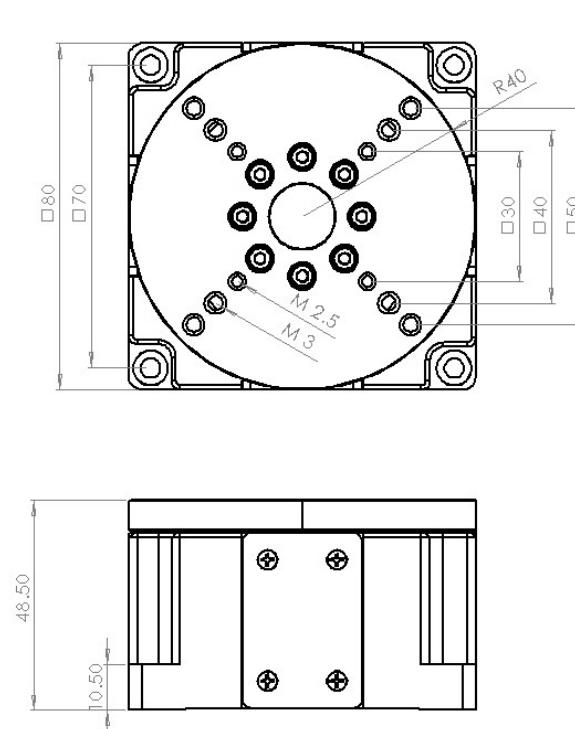
VL-PR150-360



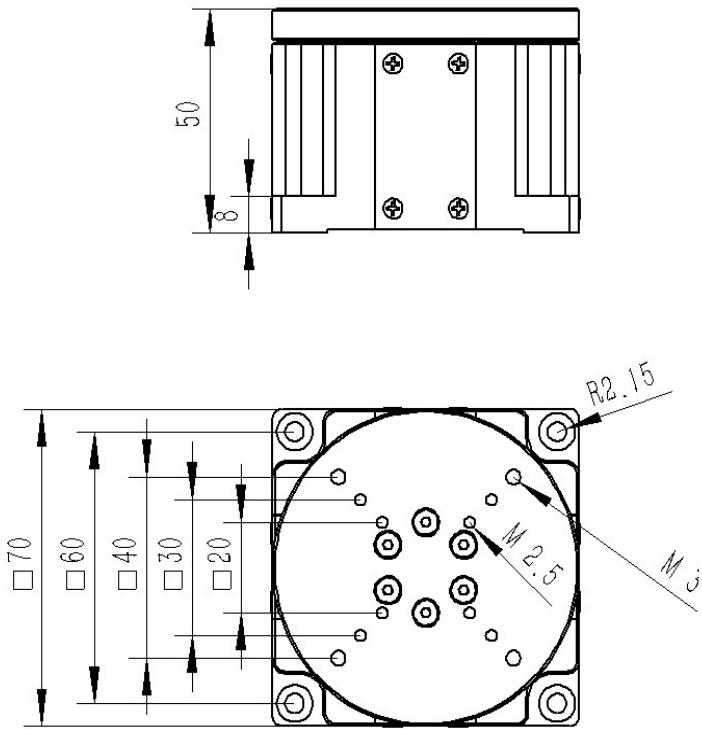
VL-PR100-360



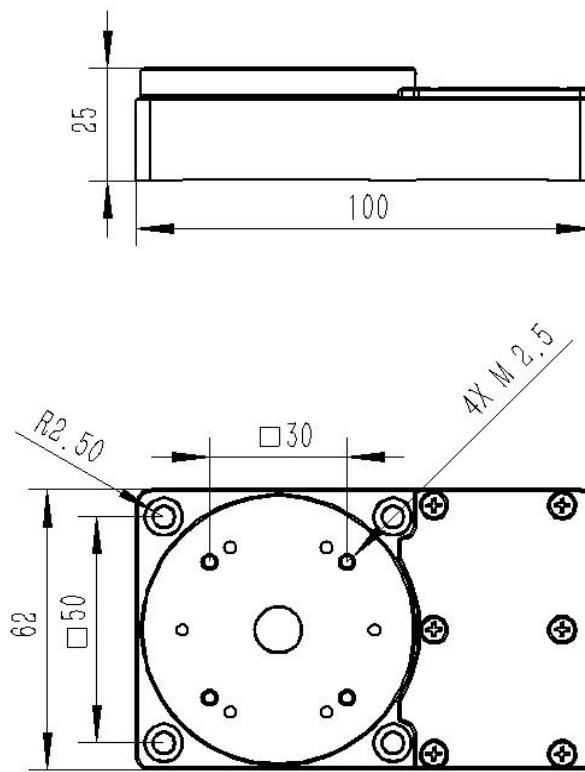
VL-PR080-360HS



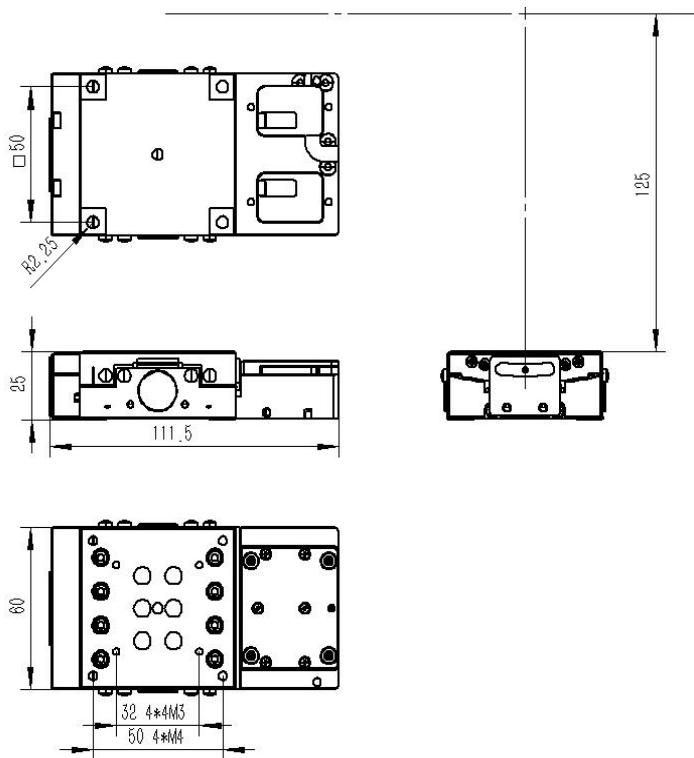
VL-PR070-360HD



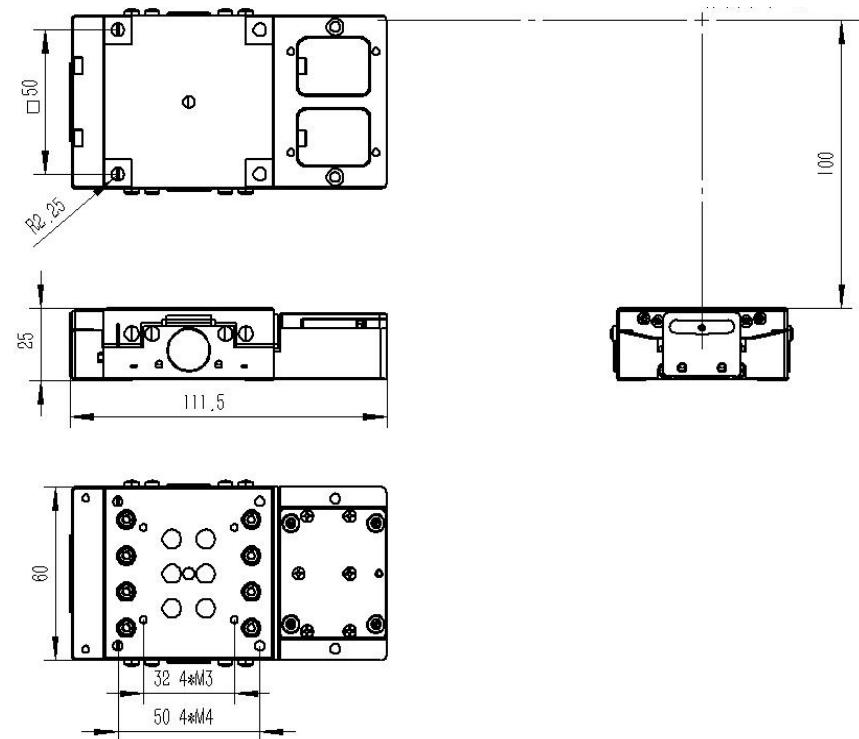
VL-PR060-360



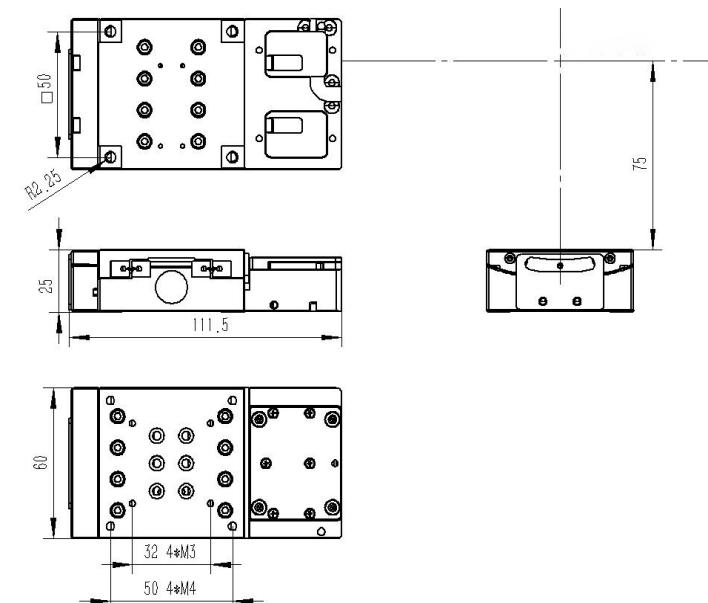
VL-PG060-10-R125



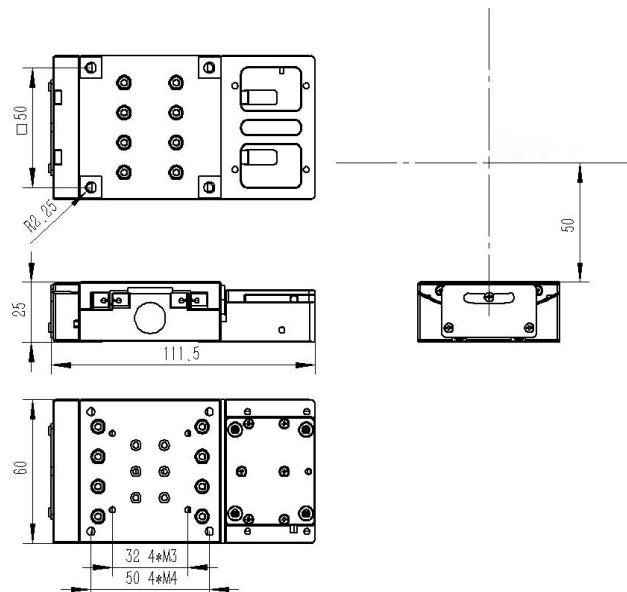
VL-PG060-10-R100



VL-PG060-10-R75



VL-PG060-10-R50



Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

1. Warranty Policy

Quality First, Worry-Free Operation

- **Warranty Period:** We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.
- **Coverage:** We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.
- **Rapid Response:** Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

2. Technical Support

Expert Team, Full-Process Guidance

- **Technical Consultation:** Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.
- **Scheduled Maintenance:** We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.
- **Training Services:** We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

3. Logistics & Delivery

Precision Packaging, Global Reach

- **Professional Packaging:** Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.
- **Logistics Partners:** We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.
- **Shipping Insurance:** All shipments are fully insured to eliminate logistics risks.

4. Compliance & Certification

Strict Standards, Total Compliance

Quality Certification: Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE and RoHS**.

Export Compliance: "Committed to environmental responsibility, all our products comply with **RoHS 2.0 and REACH** standards, ensuring safety and global compliance."

Explore Series

Model	Repeatability	Max Load	Max Speed
VL-PR070-360HD	+/- 0.002 °	5 kg	90 °/s
VL-PR150-360	+/- 0.002 °	5 kg	30 °/s
VL-PG060-10-R50	+/- 0.0002°	1.0 kg	15 °/s

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

[Get a Quote](#)



Get Expert Advice
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