

Industrial Turntable

VL-R1-Precision Series

High-precision Single-axis Rotation Stage

- Near-zero clearance and ultra-precision: Anti-backlash grinding, <1 arc minute, comparable to DD motors
- High rigidity and long-term stability: 10 times rigidity, IP65 protection, stable resistance to harsh environments



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
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Visit Us
www.venuslabtech.com

Overview

Ultra-precision single-axis electric rotary stage

VL-R1-Precision Series is VenusLab's single-axis electric rotary stage for high-end precision manufacturing and scientific testing, featuring **near-zero backlash precision positioning and high-rigidity long-term stability**. Planetary backlash elimination + double grinding achieve <1 arcmin backlash, accuracy comparable to DD motors; 90° crossed preloaded roller bearings deliver 10x rigidity, with IP65 protection for harsh environments like optical alignment and micro-nano processing.

Features of VL-R1-Precision Series

- Anti-backlash grinding, <1 arc minute, comparable to DD motor
- 90° preloaded bearing, 10x rigidity
- IP65 protection, stable operation in harsh environments
- Suitable for precision optics / micro-nano processing

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	Tabletop Size	Weight	Central Load
VL-R1-P-60M	φ60mm	2.9kg	25kg
VL-R1-P-130M	φ130mm	4.9kg	50kg

 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](#)



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