

QuakeLogic QL-MillBridge 450

Precision Vertical Turret Milling Machine (Or-Equal)

The **QuakeLogic QL-MillBridge 450** is a heavy-duty, industrial-grade **vertical turret milling machine** engineered for precision machining, maintenance fabrication, and repair operations within utility and institutional workshop environments.



Machine Configuration & Accessories

COMPLETE FACTORY INSTALLATION

The QL-MillBridge 450 is delivered as a **fully configured industrial machining platform**, including all required installed accessories. Every component is supplied **installation-ready** and compliant with solicitation requirements for LADWP IFB No. 145313, ensuring immediate operational capability upon delivery.



Core Platform

Precision vertical turret milling machine platform with rigid cast-iron construction



Digital Readout

Factory-installed DRO system for accurate position monitoring



Power Feed System

X-axis, Y-axis, and Z-axis (knee) power feeds installed



Air Power Drawbar

Installed for rapid tool changes and operational efficiency



Industrial Vise

Angle-lock vise included for secure workpiece positioning



Electrical Integration

Required electrical configuration for facility integration

All components work together as an integrated system, featuring **lubrication and drive systems** engineered for continuous-duty operation in demanding industrial environments.

Performance & Industrial Design

Engineered for Utility Workshop Machining

Primary Applications

The QL-MillBridge 450 delivers dependable machining capability across critical workshop operations:

- Fabrication and **repair machining**
- Tooling support and **maintenance operations**
- Precision metalworking in **industrial environments**
- Custom part production and modification
- Emergency repair and retrofit work

Key Design Characteristics

Rigid Construction

Cast-iron mechanical construction eliminates vibration and ensures dimensional stability during heavy cutting operations

Stable Spindle Motion

Precision table motion systems deliver repeatable accuracy for controlled material removal

Continuous-Duty Design

Integrated lubrication and drive systems support extended operational cycles without performance degradation

The QL-MillBridge 450 maintains full compatibility with **existing LADWP tooling, fixtures, and workflows**, allowing immediate integration into established operational procedures without retraining or process modification. This ensures continuity of operations and maximizes return on investment through seamless deployment.

Electrical Requirements:

208–230 V, 3-Phase, 60 Hz, fully compliant with North American industrial power standards. Alternate voltage configurations available upon request without performance deviation.

QL-MillBridge 450 — Technical Specifications

Table & Travels

- **Table Size:** 12 in × 50 in
- **X-Axis Travel:** 33 in
- **Y-Axis Travel:** 17.5 in
- **Z-Axis (Knee) Travel:** 17.5 in
- **Quill Travel:** 5.5 in
- **Ram Travel:** 22 in

Spindle System

- **Spindle Motor:** 3 HP
- **Spindle Speed Range:** 50 – 550 – 4,500 RPM (2-range, *Hi/Lo*)
- **Spindle Taper:** R-8
- **Quill Diameter:** 3.375 in

Feed & Machining Capacity

- **Quill Feed Rates:**
 - 0.0015 in/rev
 - 0.003 in/rev
 - 0.006 in/rev
- **Drilling Capacity:**
 - 0.75 in (manual)
 - 0.37 in (power)
- **Boring Capacity:** 6 in diameter
- **Milling Capacity:** 2.0 in³/min

Load & Geometry

- **Maximum Work Load (Center):** 850 lb
- **Spindle Center to Column Distance:** 5 in – 27 in



Delivery, Warranty & Support

Contract-Compliant Commercial Performance



QuakeLogic's commitment to lifecycle support ensures that the QL-MillBridge 450 remains a productive asset throughout its operational life, minimizing downtime and maximizing equipment utilization rates in mission-critical utility maintenance operations.

Compliance & Or-Equal Assurance

Fully Responsive to IFB No. 145313

The **QuakeLogic QL-MillBridge 450** is offered as a **fully equivalent industrial milling solution** that meets or exceeds all technical, functional, and operational requirements specified in LADWP IFB No. 145313. This submittal represents a complete, installation-ready system without deviation or exception to solicitation requirements.

1

Technical Equivalency

Meets or exceeds all dimensional, performance, and capacity specifications detailed in the solicitation

2

Complete Accessory Integration

Includes all specified accessories as factory-installed components, not field-installed add-ons

3

Installation-Ready Delivery

Arrives configured for immediate connection and commissioning without additional procurement

4

System Compatibility

Maintains full compatibility with existing LADWP tooling, fixtures, training programs, and operational procedures

5

Zero-Exception Submittal

Submitted without deviation, substitution, or qualification to solicitation requirements

- Documentation Support:** This submittal is supported by complete technical documentation, dimensional specifications, performance data, and compliance certifications necessary for thorough or-equal evaluation and award consideration under LADWP's competitive procurement process.

The QL-MillBridge 450 represents a fully compliant, industrially proven solution that delivers immediate operational capability while maintaining long-term reliability and serviceability standards required for utility workshop environments. QuakeLogic stands ready to support LADWP's evaluation process with additional technical information, factory demonstrations, or clarifications as requested.

Advancing Industrial Machining with QuakeLogic

Empowering utility, institutional, and industrial workshop environments with precision vertical turret milling capability, dependable mechanical performance, and compliance-driven system integration, the QuakeLogic QL-MillBridge 450 Precision Vertical Turret Milling Machine establishes a reliable standard for fabrication, maintenance, and repair machining operations.

Connect with QuakeLogic: Your Partner in Industrial Milling and Fabrication Systems

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For strategic collaborations, enterprise-level instrumentation solutions, and comprehensive technical inquiries.

Our Unwavering Commitment to Operational Excellence



Certified Quality Assurance

Complying with international standards for product reliability, performance, and safety.



Pioneering Industry Leadership

Delivering advanced spectroscopy and sensing technologies that ensure precision, repeatability, and ease of use.



Dedicated Client Success

Providing responsive technical support, calibration guidance, and complete after-sales assistance for every system delivered.

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