

# 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 in<sup>3</sup>/min

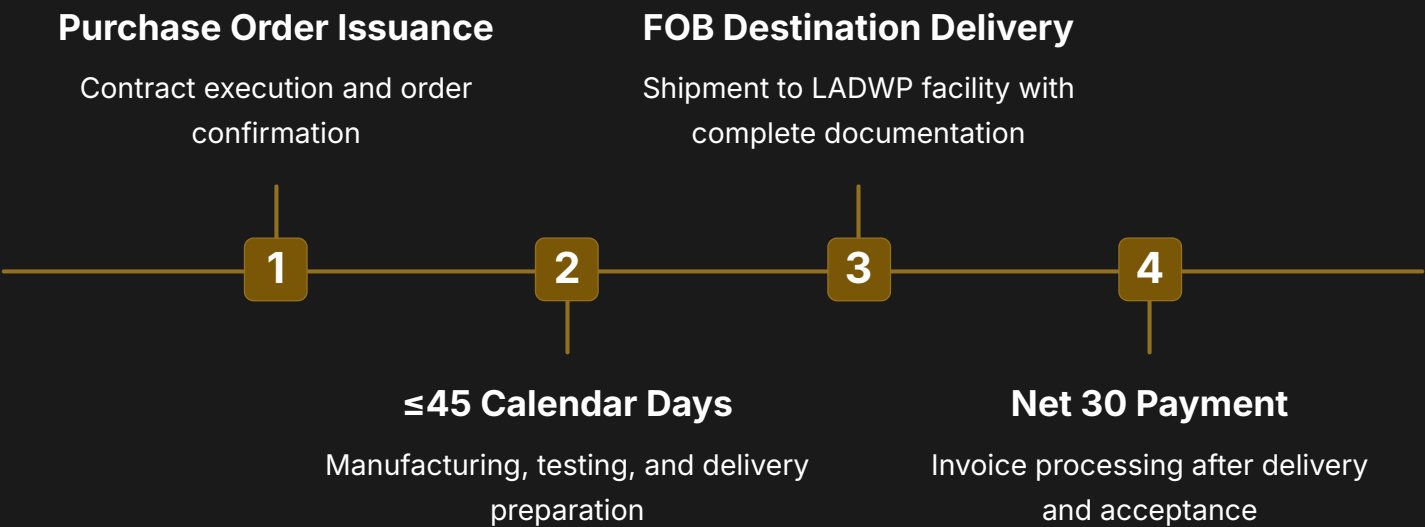
## Load & Geometry

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



# Delivery, Warranty & Support

## Contract-Compliant Commercial Performance



### Commercial Terms

All delivery and commercial terms are structured to align precisely with **LADWP IFB No. 145313** requirements:

- **Delivery:** ≤45 calendar days after Purchase Order
- **Shipment:** FOB Destination – LADWP facility
- **Pricing:** Firm for 90 days from submittal
- **Payment:** Net 30 after delivery and correct invoice
- **Documentation:** Complete technical and compliance records

These terms ensure predictable procurement timelines and budget certainty for capital equipment acquisition planning.

### Warranty & Lifecycle Support

<b>Comprehensive Coverage</b>  Full manufacturer warranty protecting against defects in materials and workmanship	<b>Component Protection</b>  Coverage of major mechanical and electrical components including spindle, feeds, and control systems
<b>Technical Support</b>  Access to factory-trained support personnel and replacement parts inventory	<b>Operational Continuity</b>  Designed for long-term serviceability with available spare parts and documentation

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.

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### 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

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### 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

### Corporate Headquarters

QUAKELOGIC INC.

4010 Foothills Blvd. Suite 103/194

Roseville, CA 95747

### Factory/Warehouse:

2008 Opportunity Dr. Suite 130,  
Roseville, CA 95678

### Executive Support Line

+1 (916) 899-0391

Direct access for advanced technical  
consultations and priority instrument  
support.

Available Monday - Friday, 9 AM - 5 PM  
PST

### Strategic Inquiries

[sales@quakelogic.net](mailto:sales@quakelogic.net)

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.

## Explore Our Complete Product Portfolio



### Scan to Access Cutting-Edge Solutions

Discover how QuakeLogic's advanced machining technologies can  
transform your training programs, modernize your fabrication workflow,  
and elevate precision turning performance to new heights.

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