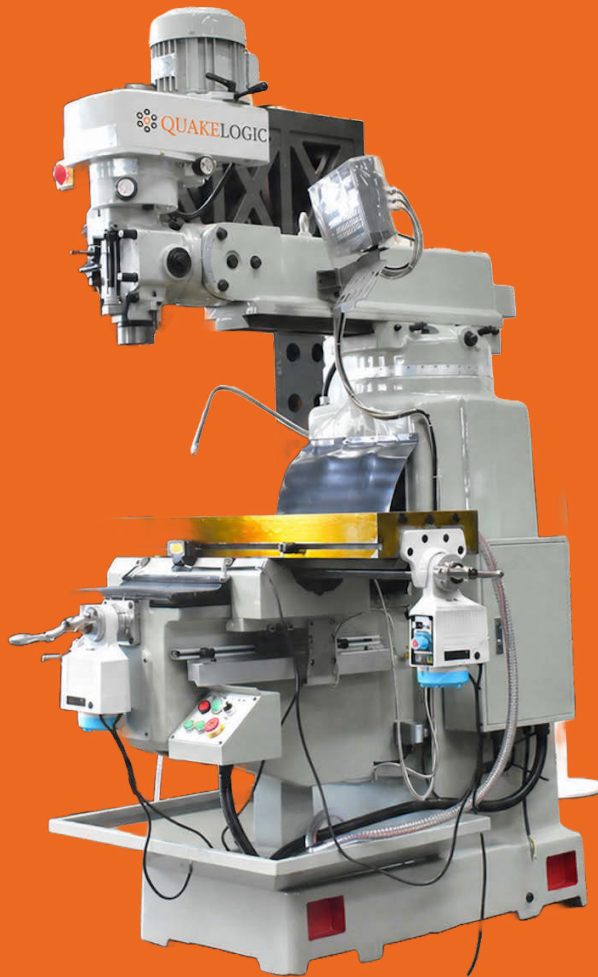


QL-MillMaster

QUAKELOGIC

MANUAL KNEE MILLING MACHINE



QL-MillMaster

Manual Knee Milling Machine



PRECISION MANUAL KNEE MILLING PERFORMANCE

The QL-MillMaster is a factory-new, industrial-grade manual knee milling machine built for milling, drilling, boring, slotting, facing, and contouring. It suits both production shops and instructional environments requiring dependable manual control. A variable-speed R8 spindle, swiveling and tilting head, hardened precision guideways, and integrated digital readout deliver repeatable accuracy across a large 49 × 9 in worktable with generous X- and Y-axis travels.

- Variable-speed R8 spindle and tilting milling head handle diverse milling, drilling, and boring tasks without dedicated tooling changeovers.
- Large 49 × 9 in worktable with 32.7 in X-travel accepts sizable workpieces and multi-part fixtures for higher throughput.
- Integrated digital readout and table power feed improve positioning accuracy and reduce operator fatigue on repetitive cuts.
- Automatic lubrication and coolant systems extend component life and sustain surface finish quality during continuous production runs.

STANDARD FEATURES »

- R8 Spindle Taper
- Variable-Speed Head
- Swivel/Tilt Head
- Precision-Ground Table
- Hardened Guideways
- Digital Readout System
- Table Power Feed
- Automatic Lubrication
- Coolant System
- Machine Work Light
- Chip Tray
- Splash Protection
- Drawbar
- Standard Tool Package
- Workholding Accessories
- Clamping Accessories
- Leveling Pads
- Anchor Hardware
- US Electrical Config
- English Manuals

Key Features

- Variable-speed vertical milling head with R8 spindle taper covers a broad range of tool sizes and material feed rates for versatile work.
- Precision knee-and-column construction with hardened guideways provides rigidity that holds tolerance under heavy cutting loads.
- Swiveling and tilting head enables angular milling and compound-angle work without refixturing, expanding part geometry capability.
- Digital readout system displays real-time axis position for accurate, repeatable setups and faster part-to-part cycle times.
- Table power-feed system automates X-axis travel for consistent feed rates, cleaner finishes, and reduced operator effort.
- Automatic lubrication system continuously oils guideways and ways to reduce wear and maintain long-term positioning accuracy.
- Integrated coolant system flushes chips and controls heat to protect tooling and improve surface finish during production.
- Machine work light, chip tray, and splash protection keep the work zone visible, clean, and safe throughout operation.
- Complete accessory package with drawbar, standard tools, leveling pads, and clamping hardware supports immediate commissioning.

PRODUCT FEATURES

Spindle & Head

R8 spindle taper · Variable-speed vertical milling head · Swiveling and tilting head design

Worktable

Minimum 49 × 9 in (1245 × 229 mm) table · Precision-ground table surface · Chip tray and splash protection

Axis Travel

X-axis travel min 32.7 in (831 mm) · Y-axis travel min 12 in (305 mm) · Knee-and-column vertical Z movement

Positioning

Digital readout system · Table power-feed system · Hardened precision guideways

Fluid & Lubrication

Automatic lubrication system · Integrated coolant system

Structure

Precision knee-and-column construction · Precision-ground guideways · Leveling pads and anchor hardware

Utilities & Safety

US-compliant electrical configuration · Machine work light · Splash guarding

Tooling & Accessories

Drawbar and standard tool package · Workholding and clamping accessories · Standard operating tools

For more information about the features, specifications, and available configurations of the QL-MillMaster, please contact QuakeLogic.

MACHINE CONFIGURATION

COMPONENT	CONFIGURATION
Machine Type	Manual Knee Milling Machine
Spindle Taper	R8
Milling Head	Variable-Speed, Swiveling and Tilting
Column & Knee	Precision Knee-and-Column Construction
Guideways	Hardened, Precision-Ground
Worktable	Precision-Ground, Min 49 × 9 in (1245 × 229 mm)
Position Feedback	Digital Readout System
Feed System	Table Power Feed
Lubrication	Automatic Lubrication System
Coolant	Integrated Coolant System
Electrical	United States-Compliant Configuration
Documentation	English-Language Operation & Maintenance Manuals

CAPACITY

SPECIFICATION	VALUE
Worktable Size (min)	49 × 9 in (1245 × 229 mm)
X-Axis Travel (min)	32.7 in (831 mm)
Y-Axis Travel (min)	12 in (305 mm)
Spindle Taper	R8
Spindle Speed	Variable-Speed
Head Movement	Swiveling and Tilting
Milling Operations	Milling, Drilling, Boring, Slotting
Finishing Operations	Facing, Contouring
Reference Equivalent	Meets Haas HKM-1 Knee Mill dimensions

OPTIONAL FEATURES & ACCESSORIES

EXTENDED TOOL PACKAGE

Adds an expanded set of collets and cutting tools to broaden material and feature capability out of the box.

PRECISION VISE SET

Supplies additional workholding vises for faster fixturing of varied part sizes on the large worktable.

ENHANCED COOLANT SYSTEM

Upgrades coolant flow and filtration for sustained finish quality during heavy or extended production runs.

ROTARY TABLE ACCESSORY

Adds indexing rotary capability for circular milling, drilling patterns, and multi-sided part processing.

TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Machine Type	Manual Knee Milling Machine
Condition	Factory-New, Industrial-Grade
Worktable Size (min)	49 × 9 in (1245 × 229 mm)
X-Axis Travel (min)	32.7 in (831 mm)
Y-Axis Travel (min)	12 in (305 mm)
Spindle Taper	R8
Spindle Type	Variable-Speed Vertical
Milling Head	Swiveling and Tilting
Column & Knee	Precision Knee-and-Column
Guideways	Hardened, Precision-Ground
Worktable Finish	Precision-Ground
Position Display	Digital Readout System
Feed System	Table Power Feed

SPECIFICATION	DESCRIPTION
Lubrication	Automatic Lubrication System
Coolant	Integrated Coolant System
Work Lighting	Machine Work Light
Chip Management	Chip Tray with Splash Protection
Drawbar	Included, Standard
Tool Package	Standard Tool Package Included
Workholding	Clamping Accessories Included
Leveling	Leveling Pads & Anchor Hardware
Operating Tools	Standard Set Included
Electrical	United States-Compliant
Documentation	English-Language Manuals
Reference Equivalent	Haas HKM-1 Knee Mill
Applications	Milling, Drilling, Boring, Slotting, Facing, Contouring

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About QuakeLogic:

QuakeLogic Inc. is a California-based engineering and technology company providing innovative, reliable, high-quality solutions to customers worldwide.

Our Commitment

We are committed to quality, innovation, and customer satisfaction – building lasting partnerships through reliable solutions and dependable support.