

QUAKELOGIC

MANUAL ENGINE LATHE



QL-TurnMaster

Manual Engine Lathe



PRECISION MANUAL TURNING FOR EVERY SHOP

The QL-TurnMaster is a factory-new, industrial-grade manual engine lathe built for precision turning, facing, threading, drilling, boring, taper turning, and grooving. It delivers a 14 in swing over bed and 39 in distance between centers, meeting the workpiece capacity of the referenced Haas HML-1. A rigid cast-iron bed, hardened precision-ground guideways, and a geared spindle head make it a dependable workhorse for general machine-shop production and maintenance.

- Rigid cast-iron bed with hardened, precision-ground guideways sustains accuracy under heavy cuts and resists deflection across the full working life.
- Geared spindle head and inch/metric threading let one operator cover turning, facing, boring, and thread cutting without additional equipment.
- Longitudinal and cross power feeds reduce operator fatigue and improve surface finish consistency during long production runs.
- US-compliant electrical configuration and English-language manuals shorten commissioning time and simplify operator training and maintenance.

STANDARD FEATURES »

- Cast-Iron Machine Bed
- Precision-Ground Guideways
- Geared Spindle System
- Longitudinal Power Feed
- Cross Power Feed
- Inch/Metric Threading
- Three-Jaw Chuck
- Chuck Mounting Flange
- Four-Position Tool Post
- Tailstock Assembly
- Live/Dead Centers
- Coolant System
- Lubrication System
- Machine Work Light
- Chip & Splash Guards
- Leveling Pads
- Anchor Hardware
- Standard Operating Tools
- US Electrical Config
- English Manuals

Key Features

- Rigid cast-iron machine bed with hardened, precision-ground guideways delivers rigidity and long-term accuracy for demanding turning operations.
- Precision geared spindle system provides consistent power delivery across the speed range for turning, facing, boring, and drilling tasks.
- Inch and metric threading capability lets operators cut standard and international threads directly without auxiliary tooling or conversions.
- Longitudinal and cross power feeds automate travel to reduce fatigue and improve surface finish repeatability on production parts.
- Three-jaw chuck with mounting flange and hardware provides fast, concentric workholding for round and hexagonal stock out of the box.
- Four-position tool post enables rapid tool indexing, cutting changeover time between roughing, finishing, threading, and parting operations.
- Tailstock assembly with live and dead center accessories supports long shafts and enables accurate drilling and center-supported turning.
- Integrated coolant and lubrication systems extend tool life, protect the machine, and maintain finish quality during continuous operation.
- Full-length chip and splash protection with work lighting keeps the workspace clean, safe, and well-illuminated for the operator.

PRODUCT FEATURES

Bed & Structure

Rigid cast-iron machine bed · Hardened, precision-ground guideways · Leveling pads and anchor hardware

Spindle System

Precision geared spindle head · Consistent power across speed range · Chuck mounting flange and hardware

Feeds & Threading

Longitudinal power feed · Cross power feed · Inch and metric threading capability

Workholding & Tooling

Three-jaw chuck · Four-position tool post · Live and dead center accessories

Tailstock

Manual tailstock assembly · Center-supported turning · Drilling and boring support

Fluids & Safety

Coolant system · Lubrication system · Full-length chip and splash protection

Electrical & Support

US-compliant electrical configuration · Machine work light · English-language manuals

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

MACHINE CONFIGURATION

COMPONENT	CONFIGURATION
Machine Bed	Rigid cast-iron, hardened and precision-ground guideways
Spindle Head	Precision geared spindle system
Workholding	Three-jaw chuck with mounting flange and hardware
Tool Post	Four-position indexing tool post
Tailstock	Manual tailstock with live and dead centers
Feeds	Longitudinal and cross power feeds
Threading	Inch and metric threading capability
Coolant	Integrated coolant system
Lubrication	Integrated lubrication system
Guarding	Full-length chip and splash protection
Lighting	Machine work light
Electrical	United States-compliant configuration

CAPACITY

SPECIFICATION	VALUE
Swing Over Bed	14 in (356 mm) minimum
Distance Between Centers	39 in (991 mm) minimum
Maximum Workpiece Capacity	14 x 39 in (356 x 991 mm)
Turning Operations	Turning, facing, boring, taper turning
Threading	Inch and metric
Drilling / Boring	Tailstock-supported
Grooving / Parting	Supported
Chuck	Three-jaw
Tool Post Positions	4

OPTIONAL FEATURES & ACCESSORIES

STEADY & FOLLOW RESTS

Support long or slender shafts against deflection, improving concentricity during turning and threading operations.

QUICK-CHANGE TOOL POST

Adds rapid tool holder changeover to reduce setup time between roughing, finishing, and threading passes.

DIGITAL POSITION READOUT

Provides accurate axis position feedback to improve dimensional repeatability and reduce operator measurement time.

ADDITIONAL CHUCK SETS

Four-jaw and collet chuck options extend workholding for irregular, off-center, and small-diameter parts.

TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Machine Type	Manual engine lathe, factory-new
Swing Over Bed	14 in (356 mm) minimum
Distance Between Centers	39 in (991 mm) minimum
Maximum Workpiece Capacity	14 x 39 in (356 x 991 mm)
Reference Equivalent	Haas HML-1 Manual Lathe
Bed Construction	Rigid cast iron
Guideways	Hardened and precision-ground
Spindle System	Precision geared spindle head
Longitudinal Feed	Power feed
Cross Feed	Power feed
Threading Capability	Inch and metric
Chuck	Three-jaw with mounting flange

SPECIFICATION	DESCRIPTION
Tool Post	Four-position
Tailstock	Manual assembly
Centers	Live and dead center accessories
Coolant System	Integrated
Lubrication System	Integrated
Work Lighting	Machine work light
Guarding	Full-length chip and splash protection
Leveling	Leveling pads and anchor hardware
Tooling Included	Standard operating tools
Electrical Configuration	United States-compliant
Documentation	English-language operation and maintenance manuals

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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.