

QUAKELOGIC

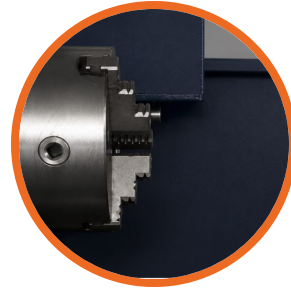
PRECISION ENGINE LATHE

QL-PrecisionTurn X



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Precision Engine Lathe



HEAVY-DUTY PRECISION TURNING PERFORMANCE

The QL-PrecisionTurn X is a heavy-duty, industrial-grade manual engine lathe engineered for high-precision turning in toolrooms, maintenance shops, manufacturing plants, and training laboratories. Rigid cast iron construction and induction-hardened, precision-ground guideways deliver dimensional accuracy, smooth operation, and long-term reliability. A geared headstock, quick-change gearbox, and inch/metric threading make it equally suited to experienced machinists and vocational instruction across a broad material range.

- Rigid cast iron bed and hardened guideways minimize vibration, preserving dimensional stability and finish quality throughout demanding continuous production runs.
- Geared headstock with 12 speeds from 45 to 1,800 RPM matches spindle speed to material and diameter for optimal cutting.
- Quick-change gearbox enables rapid feed and threading-pitch selection without swapping gears, reducing setup time between operations.
- Inch and metric threading capability plus a full standard-equipment package makes the machine productive out of the crate for varied jobs.

STANDARD FEATURES »

- Cast Iron Construction
- Hardened Precision Bedways
- Geared Headstock
- Large Spindle Bore
- Precision Spindle Bearings
- Quick-Change Gearbox
- Power Longitudinal Feed
- Power Cross Feed
- Inch/Metric Threading
- Compound Rest
- Heavy-Duty Tailstock
- Coolant System
- Lubrication System
- LED Work Light
- Full-Length Splash Guard
- Chuck Guard
- Foot Spindle Brake
- Emergency Stop
- Chip Pan
- Leveling Pads

Key Features

- Heavy-duty cast iron machine structure absorbs cutting forces and vibration, ensuring stable, accurate machining and long-term dimensional reliability.
- Induction-hardened and precision-ground bedways provide smooth carriage travel and extended service life under continuous industrial use.
- Geared headstock with hardened gears delivers high torque across the full 45–1,800 RPM range for demanding turning applications.
- Alloy-steel spindle on high-quality precision bearings, hardened and ground, provides excellent concentricity and repeatable machining accuracy.
- Large 2.05 in (52 mm) spindle bore increases workpiece capacity, accommodating bar stock and larger through-hole workpieces.
- Quick-change gearbox allows rapid selection of feed rates and thread pitches without manual gear changes, saving setup time.
- Power longitudinal and cross feeds with precision compound rest support facing, taper turning, and consistent surface finishes.
- Integrated coolant and lubrication systems, plus full splash guard and chuck guard, protect the operator and extend tool life.
- Heavy-duty tailstock with offset adjustment and MT3 quill provides accurate support for long shafts and drilling operations.

PRODUCT FEATURES

Machine Structure

Heavy-duty cast iron bed and base · Induction-hardened, precision-ground bedways · 11 in (280 mm) bed width

Headstock & Spindle

Geared headstock with hardened gears · Alloy-steel spindle on precision bearings · 2.05 in (52 mm) bore, D1-4 camlock nose · MT6 spindle taper

Speeds & Feeds

12 spindle speeds, 45–1,800 RPM · Power longitudinal and cross feeds · Quick-change gearbox

Threading

Inch threads 4–112 TPI · Metric threads 0.2–14 mm

Carriage & Tailstock

Precision compound rest · Heavy-duty tailstock with offset adjustment · MT3 quill, 5 in (125 mm) travel

Coolant & Lubrication

Coolant circulation system · Integrated lubrication system

Safety & Operator

Full-length splash guard, chuck guard · Foot-operated spindle brake, E-stop · Electrical overload protection · LED machine work light

Power

3 HP (2.2 kW) main motor · Available in 220V or 440V, 3-Phase, 60 Hz configurations

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

MACHINE CONFIGURATION

COMPONENT	CONFIGURATION
Machine Bed	Heavy-duty cast iron, precision-ground
Guideways	Induction-hardened and ground
Headstock	Geared, hardened gears
Spindle	Alloy steel, precision bearings, hardened/ground
Spindle Nose	D1-4 Camlock
Spindle Taper	MT6
Feed Gearbox	Quick-change gearbox
Carriage	Power longitudinal and cross feed
Compound Rest	Precision, adjustable
Tailstock	Heavy-duty, offset-adjustable, MT3 quill
Main Motor	3 HP (2.2 kW)
Electrical Supply	220V / 3-Phase / 60 Hz

CAPACITY

SPECIFICATION	VALUE
Swing Over Bed	14 in (356 mm)
Distance Between Centers	40 in (1,000 mm)
Swing Over Cross Slide	8.3 in (210 mm)
Bed Width	11 in (280 mm)
Spindle Bore	2.05 in (52 mm)
Spindle Speed Range	45–1,800 RPM (12 speeds)
Tailstock Quill Travel	5 in (125 mm)
Longitudinal Feed Range	0.002–0.054 in/rev
Cross Feed Range	0.001–0.027 in/rev

OPTIONAL FEATURES & ACCESSORIES

DIGITAL READOUT (DRO)

Adds inch or metric position display for faster, more accurate positioning and reduced measurement time between cuts.

STEADY & FOLLOW RESTS

Provide additional workpiece support for turning long or slender shafts, improving accuracy and reducing deflection.

THREE-JAW SELF-CENTERING CHUCK

Enables rapid, concentric clamping of round and hex workpieces for quick setups on repetitive turning jobs.

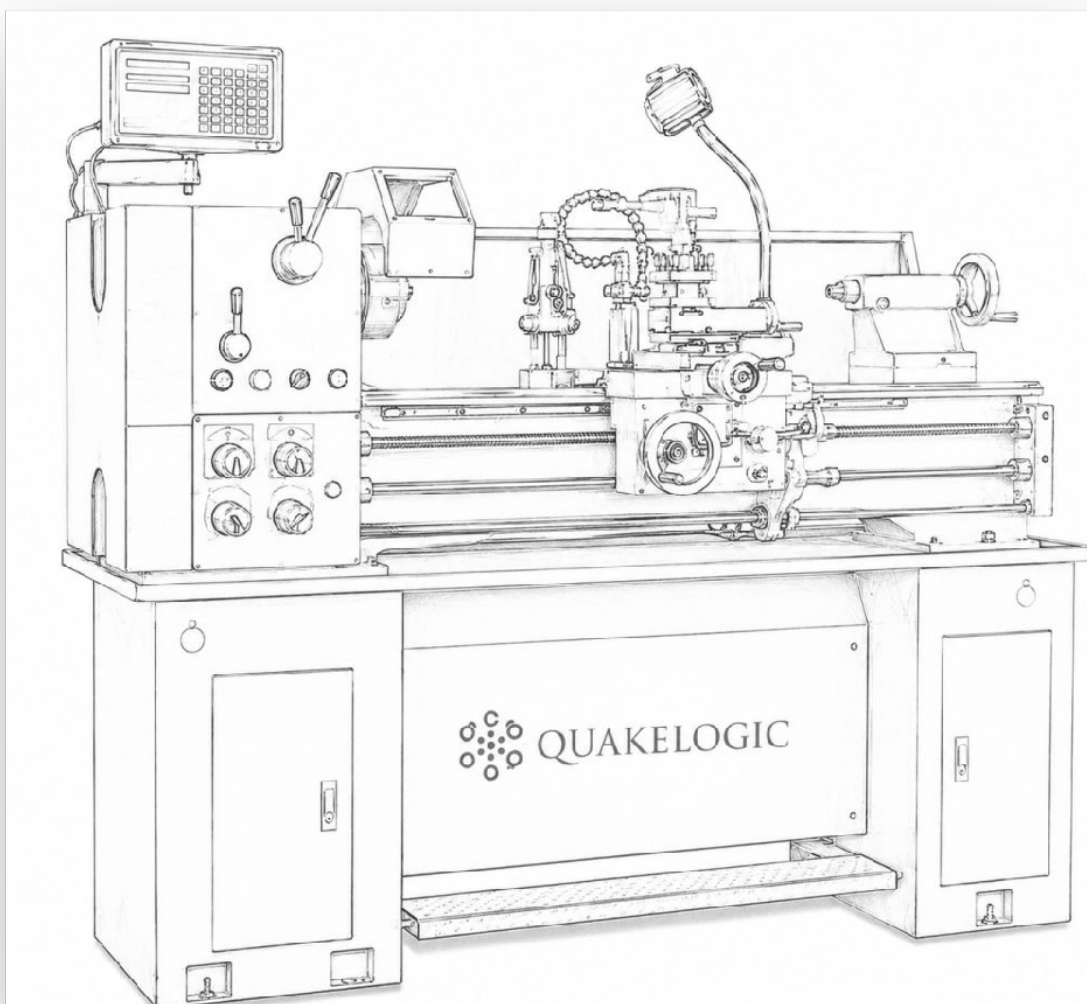
TAPER ATTACHMENT

Allows accurate, repeatable taper turning without offsetting the tailstock, improving consistency on tapered components.

TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Swing Over Bed	14 in (356 mm)
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Number of Spindle Speeds	12
Longitudinal Feed Range	0.002–0.054 in/rev

SPECIFICATION	DESCRIPTION
Cross Feed Range	0.001–0.027 in/rev
Inch Threads	4–112 TPI
Metric Threads	0.2–14 mm
Tailstock Taper	MT3
Tailstock Quill Travel	5 in (125 mm)
Main Motor	3 HP (2.2 kW)
Electrical Supply	220V / 3-Phase / 60 Hz
Overall Dimensions	Approx. 76 × 34 × 54 in (1,930 × 864 × 1,372 mm)
Machine Weight	Approx. 1,800 lb (800 kg)



QL-PrecisionTurn X

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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.

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