QUAKELOGIC

CNC PIPE THREADING SYSTEM



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QL-PipeThread Pro 24 CNC

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HEAVY-DUTY CNC PIPE THREADING AND MACHINING

The QL-PipeThread Pro 24 CNC is a heavy-duty, industrial-grade CNC pipe threading and machining system for wastewater treatment facilities, municipal infrastructure maintenance, and industrial pipe fabrication. It handles pipe outside diameters from 3 to 24 inches and performs threading, grooving, beveling, facing, rethreading, and pipe-end preparation. A 20 HP spindle, 24-inch facing head, and CNC control with dual-speed MPG handwheel deliver precise, repeatable results on demanding production runs.

- Handles pipe outside diameters from 3 to 24 inches across six machining operations, covering most municipal and industrial pipe-end preparation needs in one machine.
- 20 HP spindle with variable 10–300 RPM speed control matches cutting conditions to pipe material, sustaining precise finishes on ductile and heavy-wall pipe.
- Powered 26-foot infeed conveyor rated at 11,000 lb moves heavy pipe to the headstock without external cranes, keeping throughput steady.
- Integrated chip conveyor with oil misting and coaxial air/oil lubrication keeps the work zone clear and tooling cooled during continuous operation.

STANDARD FEATURES »

- C6 Capto Clamping Units (2)
- Large Adapting Plates (2)
- Small Adapting Plates (2)
- NPT Threading Kits
- Grooving Kits
- Facing Kits
- Carbide Inserts
- Standard Toolbox
- Air/Oil Lubrication System
- Powered Infeed Conveyor
- Chip Conveyor
- Oil Misting System
- Operation Manual
- Maintenance Manual
- Parts List
- Warranty Certificate

Key Features

- Accommodates 3 to 24 inch pipe outside diameters for threading, grooving, beveling, facing, rethreading, and pipe-end preparation in a single platform.
- 20 HP spindle motor with variable 10–300 RPM control matches surface speed to material, holding finish quality across pipe sizes and wall thicknesses.
- 24-inch facing head with 5.5-inch X-axis travel supports large-diameter facing and end-prep without repositioning the workpiece.
- Dual-speed MPG electronic handwheel gives precise manual X and Z positioning for setup, touch-off, and fine adjustment on both axes.
- Reinforced heavy-duty steel frame provides rigidity that suppresses chatter and preserves accuracy under heavy ductile-pipe cutting loads.
- Integrated inside-diameter coaxial air/oil lubrication system cools and lubricates cutting tools, extending insert life on long production runs.
- Powered up/down infeed conveyor, 26 ft long and rated 11,000 lb, loads heavy pipe to the headstock and reduces manual handling.
- Integrated industrial chip conveyor with oil misting removes swarf continuously, keeping the cutting zone clear during unattended machining.
- Complete tooling package includes C6 Capto clamping units, adapting plates, NPT threading, grooving and facing kits, and carbide inserts.

PRODUCT FEATURES

Spindle & Machining
20 HP spindle motor · Variable speed 10–300 RPM · Threading, grooving, beveling, facing, rethreading, end-prep

Facing Head
24-inch facing head diameter · 5.5 in X-axis travel across facing head

CNC Control
Integrated precision CNC machining control · Dual-speed MPG electronic handwheel · Manual X and Z-axis positioning

Material Handling
Powered up/down infeed conveyor, 26 ft · 11,000 lb conveyor load capacity · 4,400 lb turntable capacity

Lubrication & Chip Removal
Inside-diameter coaxial air/oil lubrication · Integrated industrial chip conveyor · Chip conveyor oil misting

Electrical
460 VAC, three-phase, 60 Hz · 20 kVA capacity, 34 A full-load · 70 A wall circuit breaker required

For more information about the features, specifications, and available configurations of the QL-PipeThread Pro 24 CNC, please contact QuakeLogic.

WORK ENVELOPE & CAPACITY

SPECIFICATION	VALUE
Pipe Outside Diameter	3–24 in
Facing Head Diameter	24 in
X-Axis Travel	5.5 in (across facing head)
Z-Axis Travel	23.6 in (headstock infeed)
Spindle Speed Range	10–300 RPM, variable
Infeed Conveyor Load Capacity	11,000 lb
Conveyor Turntable Capacity	4,400 lb
Infeed Conveyor Length	26 ft



TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Model	QL-PipeThread Pro 24 CNC
Machine Type	Heavy-Duty CNC Pipe Threading & Machining System
Machining Operations	Threading, grooving, beveling, facing, rethreading, end-prep
Pipe Outside Diameter	3–24 in
Facing Head Diameter	24 in
Machine Construction	Heavy-duty reinforced steel frame
Spindle Motor Power	20 HP (14.9 kW)
Spindle Speed Range	10–300 RPM, variable
CNC Control System	Integrated precision CNC machining control
Manual Positioning	Dual-speed MPG electronic handwheel
X-Axis Travel	5.5 in (140 mm), across facing head
Z-Axis Travel	23.6 in (600 mm), headstock infeed
Operating Voltage	460 VAC
Electrical Phase	Three-phase
Operating Frequency	60 Hz
Electrical Capacity	20 kVA
Full-Load Current	34 A

SPECIFICATION	DESCRIPTION
Required Wall Circuit Breaker	70 A
Lubrication System	Inside-diameter coaxial air/oil
Infeed Conveyor	Powered up/down system
Infeed Conveyor Length	26 ft (7.9 m)
Infeed Conveyor Load Capacity	11,000 lb (4,990 kg)
Conveyor Turntable Capacity	4,400 lb (1,996 kg)
Chip Removal	Integrated industrial chip conveyor
Oil Misting System	Integrated with chip conveyor
C6 Capto Clamping Units	Two (2)
Large Adapting Plates	Two (2)
Small Adapting Plates	Two (2)
Tooling Kits	NPT threading, grooving, facing
Carbide Inserts	Included
Operator Training	2 days, 8 hours per day
Equipment Warranty	Minimum one (1) year
Documentation	Operation & maintenance manuals, parts list, certificate
Delivery Terms	F.O.B. Destination

QUAKELOGIC

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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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