

# MACHINE SIZES & CAPACITY

Condensed Capability Sheet | 25 CNC Machines Across 6 Categories | [qualitymould.com](http://qualitymould.com)

**25**

CNC Machines

**3**

5-Axis Centers

**4**

Horizontal Centers

**9**

Vertical Centers

**3**

Mill-Turn / Integrex

**4**

Turning Centers



## Quality Mould Inc.

**ISO 9001:2015 Certified | Established 1983 | Latrobe, Pennsylvania**

Industrial manufacturing partner supporting CNC machining, welding and fabrication, robotics and automation support, power-grid components, tooling, mould-related work, and repeat production.

## Core Capabilities

### CNC Machining

3-, 4-, and 5-axis machining; large vertical capacity; horizontal palletized production.

### Mill-Turn / Integrex

Done-in-one machining, live tooling, Y-axis capability, and multi-operation parts.

### Welding & Fabrication

Weldments, assemblies, fabrication support, and machining after welding where required.

### Robotics & Automation

Robotic handling and automation support for repeatable production workflows.

### Conductors & Power Grid

Copper and infrastructure-related components for demanding industrial applications.

### Inspection & Quality

ISO 9001:2015 certified processes with in-house inspection and process control.

### Materials Experience

Copper | Aluminum | Carbon steel | Stainless steel | Tool steels | Specialty alloys (confirm at RFQ)

### Industries Served

Power grid / electrical infrastructure | Industrial equipment | OEM production | Tooling, fixtures and mould-related manufacturing | Fabricated assemblies

### RFQ Guidance

Send prints, models, material, quantity, revision level, target date and inspection requirements to [mhimes@quality-mould.com](mailto:mhimes@quality-mould.com).

### Confidentiality

Customer prints, models and project files are handled confidentially and used only to evaluate or support the requested work.

## Representative Equipment & Capacity Highlights

Full machine list and detailed capacities available upon request

### 5-AXIS MACHINING CENTERS

3 machines

#### Haas UMC-1000

Travels up to 40" x 25" x 25"; 635 mm trunnion; 1,000 lb table capacity.  
*5-axis platform for complex parts and multi-sided machining.*

#### Haas UMC-750

Travels 30" x 20" x 20"; 500 mm trunnion; 660 lb table capacity.  
*5-axis simultaneous capability.*

#### Mazak Variaxis 500-5X

Travels 20.08" x 20.08" x 18.11"; 500 x 400 mm table; 661 lb capacity.  
*5-axis simultaneous with pallet changer capability.*

### MULTI-TASKING / INTEGREGX

3 machines

#### Mazak Integrex platforms

Mill-turn platforms with Y-axis, live tooling and done-in-one capability.  
*Reduces setups and supports complex turned/milled parts.*

#### Integrex 300-IV

Capacity highlights include up to 30" dia x 60" length turning.  
*Heavy-duty multi-tasking with milling head capability.*

#### Integrex 200SY / 300-IY

Sub-spindle/Y-axis/live tooling platforms; bar capacity up to 3" on select machines.  
*Good fit for multi-operation parts.*

### HORIZONTAL MACHINING CENTERS

4 machines

#### Mazak HCN 5000-III (Qty: 2)

500 mm pallet; 1,102 lb capacity; high-speed horizontal machining platform.  
*Supports production work with through-spindle coolant capability.*

#### Mazak HCN-4000 / HTC-400

400 mm pallet platforms with 2-pallet changer capability.  
*Good fit for repeat part families and fixtures.*

### LATHES & TURNING CENTERS

4 machines

#### Mazak Power Master platforms

Large turning capacity; highlights include up to 39.37" dia and long-shaft turning.  
*Heavy-duty shaft and large diameter work.*

#### Mazak Power Master Universal

Long-shaft turning platform with between-centers capability up to 117"+ range.  
*Confirm final envelope and workholding during RFQ.*

#### Mazak QTN 450-II

Large chuck turning center; up to 23.62" dia x 60" length platform.  
*Production turning and larger components.*

### VERTICAL MACHINING CENTERS

9 machines

#### Large VMC capacity

Extended X-travel platforms up to 80" X-axis travel.  
*Large plates, tooling, fixtures and long workpieces.*

#### Mazak VTC platforms

Traveling-column machines with fixed tables up to 78.74" long.  
*Useful for long components and dual-zone workflows.*

#### Haas VF-3SSYT / Mazak VCN

Vertical platforms for high-speed and general-purpose milling.  
*Plate, bracket, mould and fixture machining.*

### CUSTOM MACHINES

2 machines

#### CNC Lathe

Compact high-speed turning for smaller-diameter work.  
*Useful for smaller turned components.*

#### Turn/Mill with Live Tooling

Combined turning and milling in a single setup.  
*Supports features that would otherwise require multiple operations.*

### Important capacity note

These are representative equipment and capacity highlights based on the listed machine fleet. Final manufacturability, usable envelope, fixturing, material, tolerance capability, inspection requirements and lead time are confirmed during RFQ review.

Send RFQs to [mhimes@quality-mould.com](mailto:mhimes@quality-mould.com) | [qualitymould.com](http://qualitymould.com) | (724) 532-3678

Please include prints, models, material, quantity, revision level, target date and inspection requirements.