SMOOTH TECHNOLOGY

QTU Series

200 | 200M | 200MS | 200MY | 200MSY | 250 | 250M | 250MS | 250MY | 250MSY |
350 | 350M | 350MS | 350MY | 350MSY

Mazak

TABLE OF CONTENTS

QTU SERIES

200 | 200M | 200MS | 200MY | 200MSY
250 | 250M | 250MS | 250MY | 250MSY
350 | 350M | 350MS | 350MY | 350MSY

Built at the Mazak iSMART Factory in Florence, Kentucky, the simple but innovative compact QTU Series machines represent the next-generation of world-class CNC Turning Centers that deliver both high productivity and cost effectiveness.

MACHINE CONFIGURATIONS:

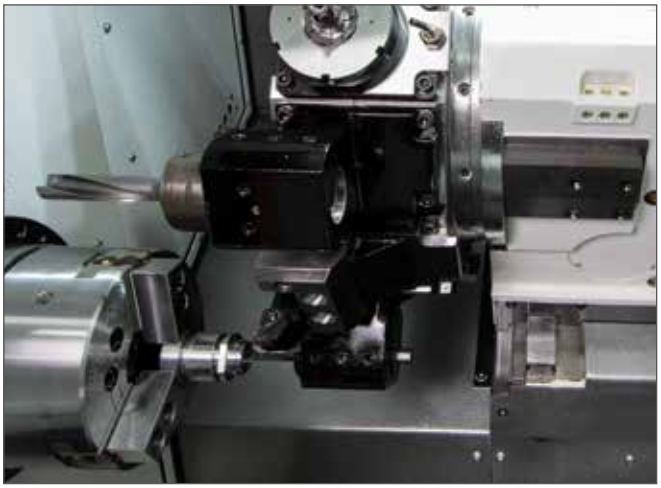
- QTU-200
- QTU-200M
- QTU-200MS
- QTU-200MY
- QTU-200MSY

- QTU-250
- QTU-250M
- QTU-250MS
- QTU-250MY
- QTU-250MSY

- QTU-350
- QTU-350M
- QTU-350MS
- QTU-350MY
- QTU-350MSY

M = turret with rotary milling
S = second spindle
Y = Y-axis off-centerline capability

QTU-200



OPTIMUM PLUS SERVICE AND SUPPORT

MAZAK OPTIMUM PLUS

To maximize machine tool investments, the Mazak Optimum Plus program represents a company-wide commitment to provide the best possible, most comprehensive support.

The Optimum Plus program encompasses Five Pillars — distinct, yet interrelated areas:

- Single-source service
- Technical support — machine and CNC
- Parts support
- Progressive Learning
- Spindle and unit rebuild

Single-source service

Mazak is a single point of contact for any Mazak-related service need, whether it involves a machine, control, accessory or automation solution. This effective service approach helps customers maintain the highest possible level of productivity.

Benefits of Mazak's single-source approach include:

- Free technical phone support and software upgrades for the life of a Mazak machine
- Software support that provides instantaneous diagnostic services via remote real-time systems
- Guaranteed phone response to any technical question within one hour via a 24/7 technical phone support system
- More than 350 factory-trained Mazak service representatives and certified distributor personnel that can be at a customer's site within 24 hours under most circumstances
- Wide variety of services, including laser calibration to ISO, ANSI and JIS standards; ball bar qualification and analysis; preventive maintenance plans and programs; and vibration analysis and benchmarking

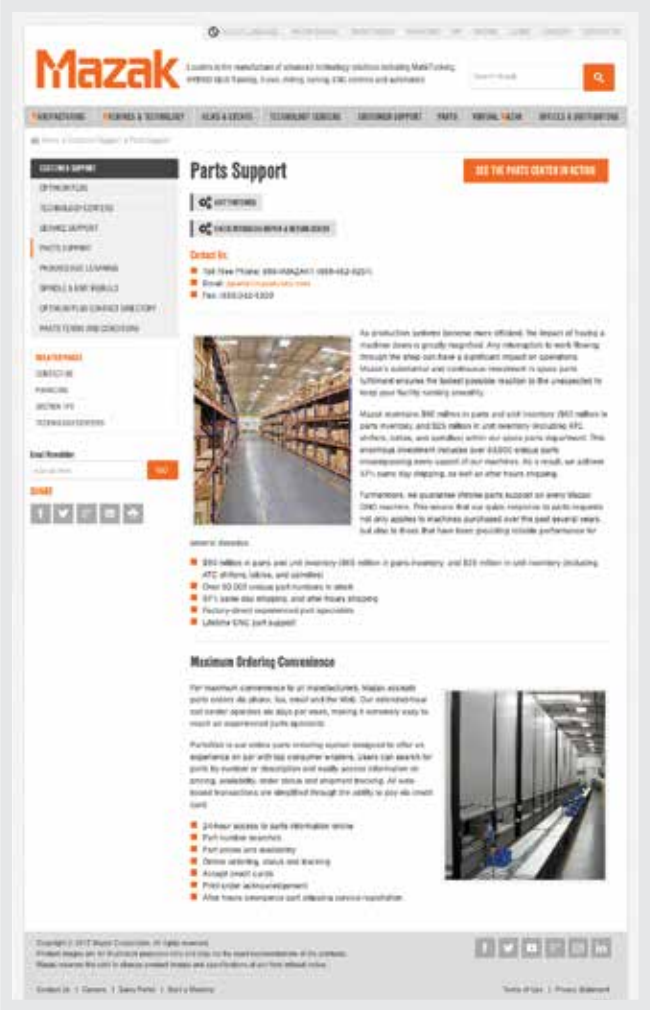
Technical support — machine and CNC

Comprehensive warranties on every Mazak machine tool component, including a two-year part warranty on CNC control components.

Technical support for machines and CNCs also includes:

- Additional warranty coverage (available upon request)

Mazak OPTIMUMplus
TOTAL SUPPORT FOR MAZAK CUSTOMERS



THE MAZAK OPTIMUM PLUS PROGRAM ENABLES CUSTOMERS TO MAXIMIZE THE VALUE OF THEIR MAZAK PURCHASE.

Parts support

Mazak's spare parts fulfillment ensures the fastest possible reaction time. The state-of-the-art Mazak North American Parts Center uses the latest AS/RS fully automated warehouse storage system technology and maintains a $65 million parts inventory.

Benefits of the North American Parts Center include:

- Average 97% same day parts shipment and after hours shipping
- 52,000 part numbers in stock
- Call center open Monday-Saturday
- Convenient web-based parts ordering
- Experienced part specialists
- Lifetime CNC parts support

Click here for more information on parts support.

FULLY AUTOMATED WAREHOUSE STORAGE SYSTEMS ENSURE THE FASTEST DELIVERY OF MAZAK SPARE PARTS.

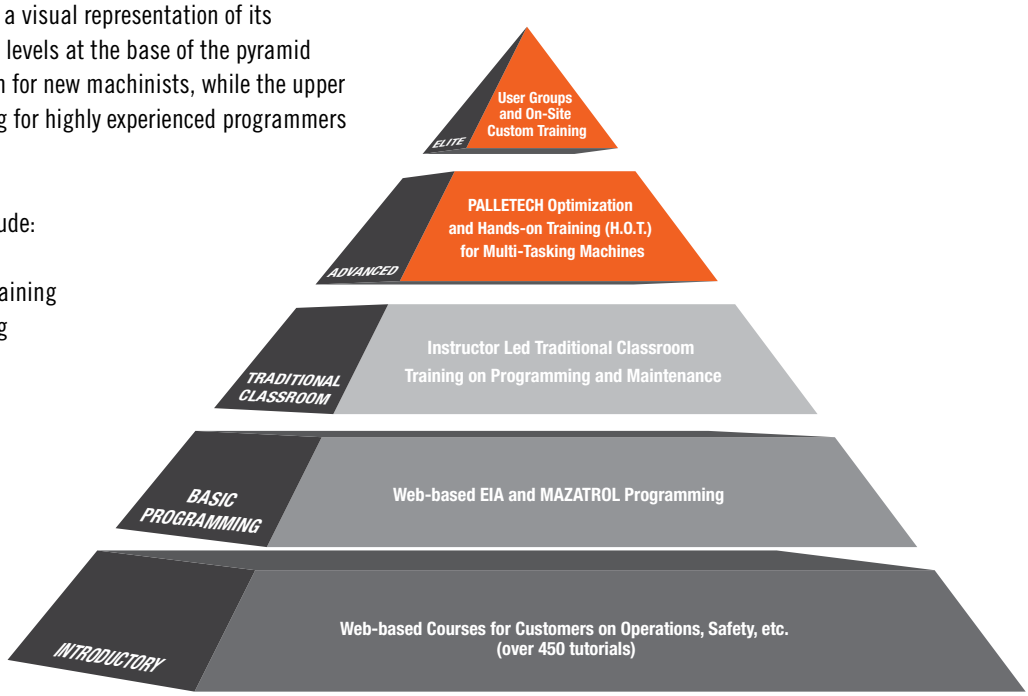
Progressive Learning

Mazak's Progressive Learning represents a unique, phased approach to education and training for customers, combining hands-on training, web-based instruction and real-world examples. The program's tiers of offerings — Pyramid of Learning — range from self-paced coursework to highly advanced classes. Every Mazak machine includes three years of programming training at no charge to customers.

Mazak's Pyramid of Learning is a visual representation of its approach to training. The lower levels at the base of the pyramid represent basic skills education for new machinists, while the upper levels signify advanced training for highly experienced programmers and operators.

Pyramid of Learning levels include:

- Simple online training
- Introductory programming training
- Traditional hands-on training
- Advanced training
- Customized training



TOP 10 ADVANTAGES

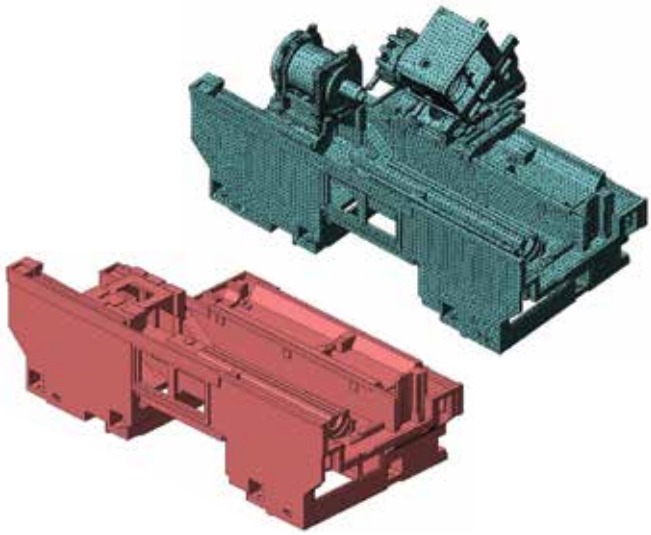
While basic in their designs, QTU Series machines feature new and innovative technologies that bring high productivity, precision, performance and value to job shops as well as first and second tier manufacturing suppliers. The series provides the perfect balance of technology and minimized operational costs.

TOP 10 ADVANTAGES OF THE QTU SERIES

1. **New design concept** for a wide range of machine configurations up to 5-axis including C-axis, Y-axis and A-axis capability and single or double spindles.
2. **Extremely rigid base** with low center of gravity for stability and vibration dampening.
3. **Proven advanced integral spindle motor/headstock** technology ensures reliable, maintenance-free high performance.
4. **High-precision C-axis** delivers 360 degrees of programmable motion for processing flexibility.
5. **Innovative servo turret** expands for added tooling capacity.
6. **NC servo-driven tailstock** is fully programmable for simple and precise operation.
7. **Large swing capacity** minimizes interference.
8. **MAZATROL SmoothC CNC** further enhances overall performance.
9. **Green, energy efficient and ergonomic features** make for ease of use, environmentally friendly, low-maintenance operation.
10. **Optional seamless automation integration** increases uptime and lights-out production.

STRUCTURE

An innovative base design outfitted with the industry's leading guideway system forms the perfect foundation for the outstanding performance of the QTU Series machines.



BASE

New high-rigidity base/bed design ensures thermal stability and ample part capacity.

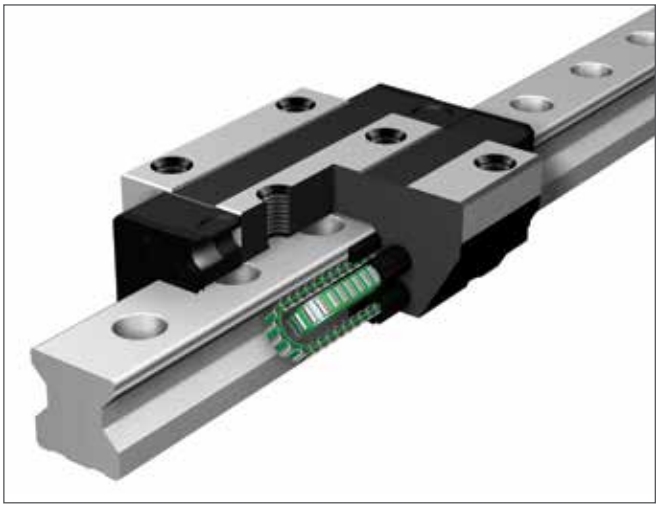
- Finite Element Method (FEM) yields maximum cooling and expansion control
- Low center of gravity provides the foundation and durability for sustained heavy cutting
- Bed lengths range from 20" (508 mm) to 40" (1,016 mm)
- Hand scraped to ensure quality and high precision accuracy
- Large 27.4" (696 mm) swing capacity for less interference
- Maximum turning diameter of 16.25" (410 mm) on QTU-200/QTU-250/QTU-350 and 13.5" (340 mm) on QTU-200/250/350M/MS/MSY
- Rapid traverse rates of 1,181 ipm (30 m/min) in X axes and 1,417 ipm (36 m/min) in Z axes

ROLLER GUIDEWAY SYSTEM

Mazak's MX Hybrid Roller Guide System incorporates a special X-design that efficiently distributes load in four directions — radial (clockwise and counterclockwise), reverse radial and lateral.

MX Hybrid Roller Guide benefits:

- Best combination of consistent performance, accuracy, rigidity and durability
- More surface contact than ball guide systems, yet less friction than boxways
- Heavy load capacity
- Unparalleled levels of vibration dampening extends tool life
- Less elastic deformation with rollers
- Minimal lubricant consumption for greener operation
- Maintenance free system



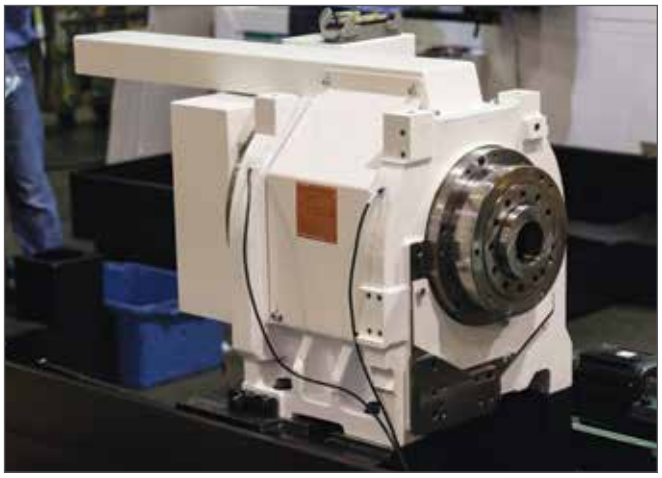
HEADSTOCK AND SPINDLE

QTU main spindles are supported in the headstock by triple angular ball bearings in the front and cylindrical roller bearings in the rear, and the spindles are driven directly by integral spindle motors. Thermal distortion is minimized through air cooling systems in the QTU-200/QTU-250 headstocks and with liquid cooling systems in the QTU-350 headstocks.

Spindle cooling systems further ensure stable and continuous precision machining by maintaining constant headstock temperatures. With optional spindle C axis milling, the QTUs offer high-accuracy complex and prismatic machining and 3D contouring capabilities.

- Variable-speed AC inverter eliminates need for belts and pulleys
- Short acceleration/deceleration times
- Reliable and maintenance free
- Integrated direct-drive, programmable full 360-degree C-axis positioning at 0.0001-degree increments

MAIN TURNING SPINDLE



HEADSTOCK AND SPINDLE

SPECIFICATIONS

QTU-200

- Spindle bore diameter of 2.4" (61 mm)
- Maximum bar diameter of 1.7" (42 mm)
- Speeds from 35 to 6,000 rpm with 90 ft-lb torque
- A2-6, 20 hp (15 kW) (15% ED)

QTU-250

- Spindle bore diameter of 3.0" (76 mm)
- Maximum bar diameter of 2.0" (51 mm)
- Speeds up to 4,500 rpm with 123 ft-lb torque
- A2-6, 20 hp (15 kW) (40% ED)

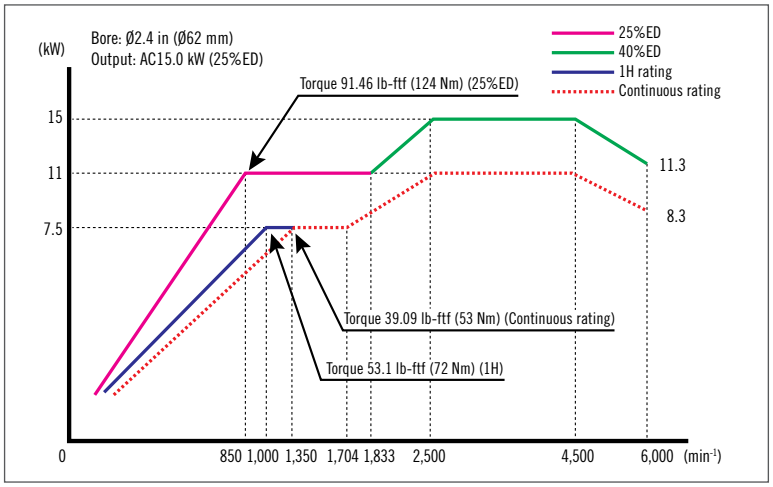
QTU-350

- Spindle bore diameter of 3.5" (91 mm)
- Maximum bar diameter of 3.0" (76 mm)
- Speeds up to 3,500 rpm with 246 ft-lb torque
- A2-8, 20 hp (15 kW) (25% ED)

SPINDLE POWER-TORQUE DIAGRAMS

The Mazak integral spindle/motor headstock design delivers increased rigidity, high speed and high torque for heavy-duty machining performance. This balance of power and speed boosts material removal rates and shortens machining cycle times.

PRIMARY SPINDLE MOTOR CHARACTERISTICS — QTU-200MS, 200MY, 200MSY



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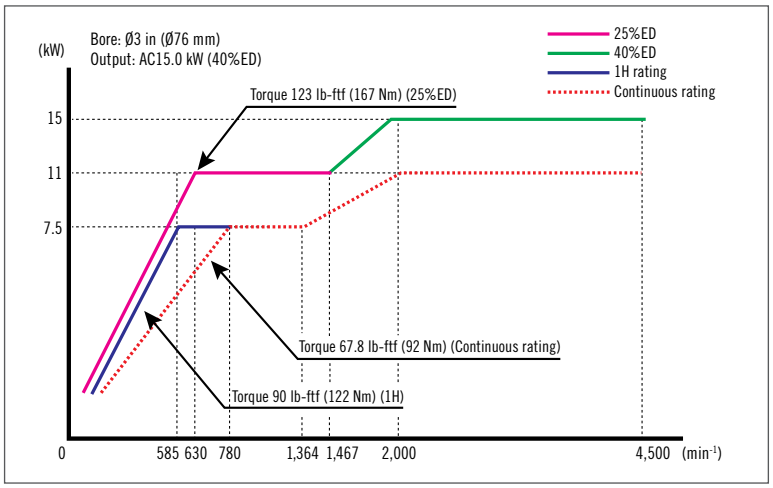
QTU-250/M/MS/MY/MSY



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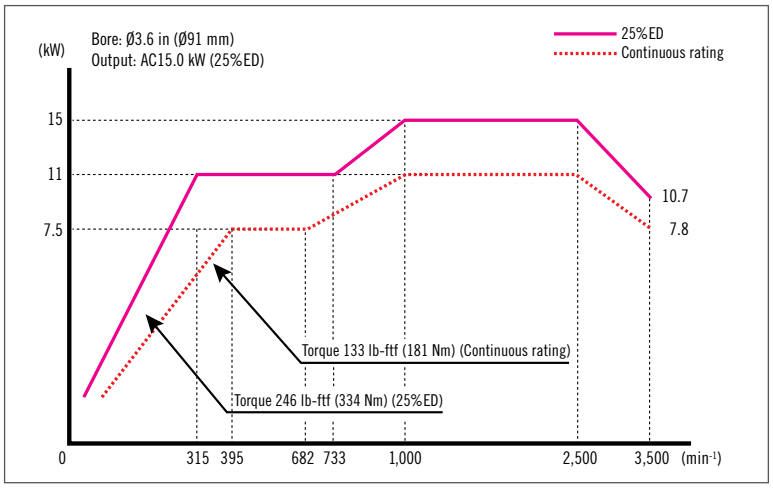
QTU-350/M/MS/MY/MSY



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SERVO TURRET

QTU Series machines feature innovative turrets that use roller gear cam drive systems for smooth, high-speed, high-accuracy digital indexing as well as expandability.

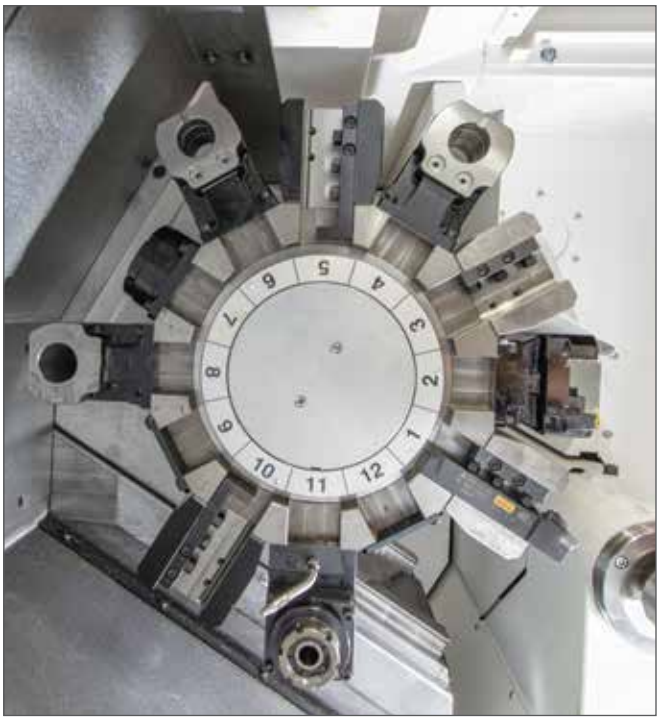
Benefits of the enhanced 12-position, integral-motor turrets:
- High-speed, high-accuracy indexing
- Maximum rigidity
- Expandability and versatility
- Low maintenance

FAST, INTERFERENCE-FREE OPERATION

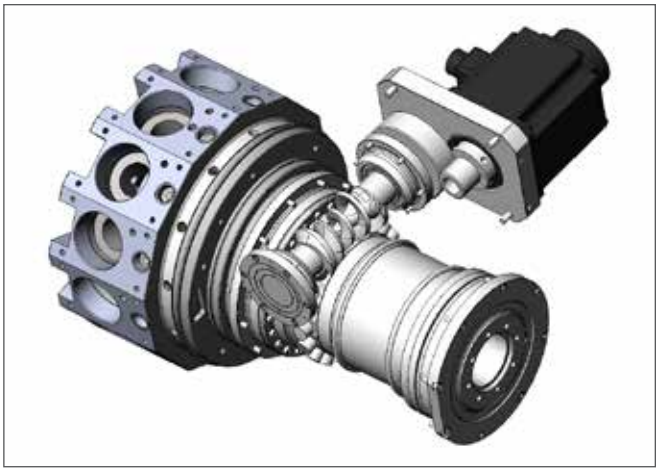
For significantly reduced non-cut times, QTU turrets are bi-directional and thus rotate — via the shortest path possible — to quickly bring up the next programmed tool. Brushless servomotors provide hydraulic clamping strength, while non-lift indexing capability prevents contamination.

ROLLER GEAR CAM DRIVE SYSTEM

QTU turrets feature industry-proven drive systems that enhance overall machine productivity and performance. The system delivers smooth acceleration/deceleration and extreme durability along with cost-effective and easy maintainability.



3-AXIS SERVO TURRET



ROLLER GEAR CAM DRIVE SYSTEM
The Mazak Roller Gear Cam Drive System provides ample accessibility for fast and easy routine maintenance.

TAILSTOCK

NC SERVO-DRIVEN TAILSTOCK

Mazak's fully programmable NC servo-driven tailstock provides simple, precise and automatic operation to reduce setup time and increase productivity. The QTU tailstock includes drilling capability as standard.

Through the part program, the tailstock moves to a known position and the center makes contact with the part at a programmed thrust. With its positive independent drive system, the tailstock has on centerline drilling capability to add part processing versatility.

Servo motor-controlled movement and thrust give Mazak's NC tailstock increased operability and ease of use. The servo motor monitors tailstock thrust and adjusts on-the-fly while a workpiece is being held.

Thrust settings are adjustable in increments of 22.5 ft-lb (0.1 kN) of force. The tailstock gives users the option to set thrust levels according to workpiece material and shape. This eliminates the risk of part damage while simultaneously providing safe and secure holding and support.

Tailstock specifications include:

- Center bore Morse taper MT No.5 live center
- Travels (depending on machine model) from 13.250" (340 mm) to 22.125" (565 mm)

LOW-THRUST OPERATION

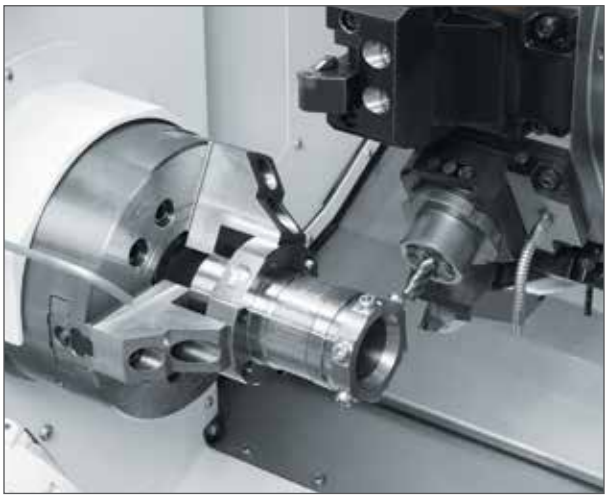
For extremely delicate and soft workpiece materials such as phenolic and resins, a low-thrust function provides holding force settings below 225 ft-lb (1 kN).

NC SERVO-DRIVEN TAILSTOCK

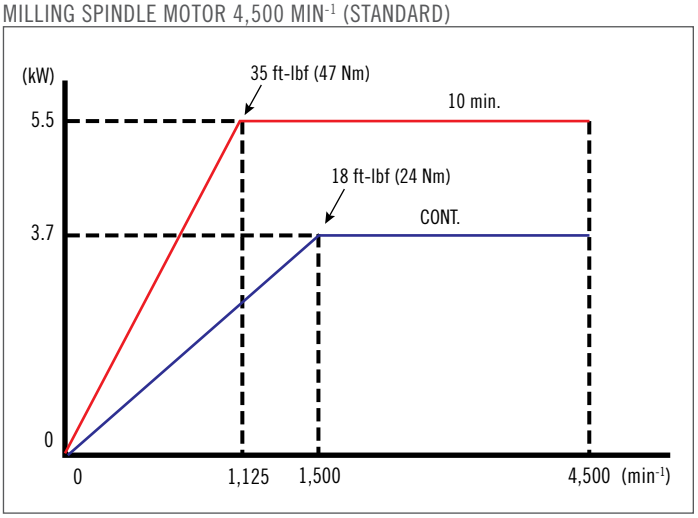
MILLING OPTION

For increased flexibility and Multi-Tasking part processing, QTU-200/250/350 M/MS/MY/MSY machines feature rotary tool spindles for milling (M) capabilities.

MILLING TOOL SPECIFICATION			
Item	**Unit**	**QTU-200/250/350 M/MS/MY/MSY**	
Rotary tool speed		4,500 min-1 (standard)	6,000 min-1 (optional)
Output	hp (kW)	7.3 (5.5)	
Rotary tool speed	–	Variable automatic speed	
Rotary tool speed	min-1	4,500	6,000
Rotary tool torque	ft-lbf (Nm)	34.7 (47)	17 (23)



MILLING SPINDLE MOTOR 4,500 MIN^{-1} (STANDARD)



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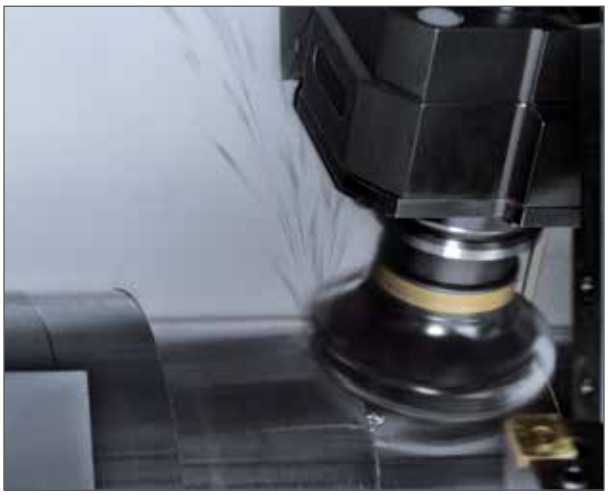
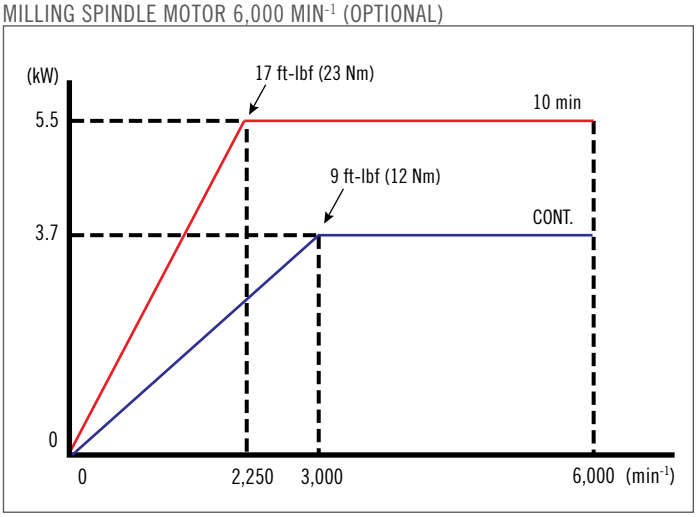


MILLING SPINDLE MOTOR 6,000 MIN^{-1} (OPTIONAL)



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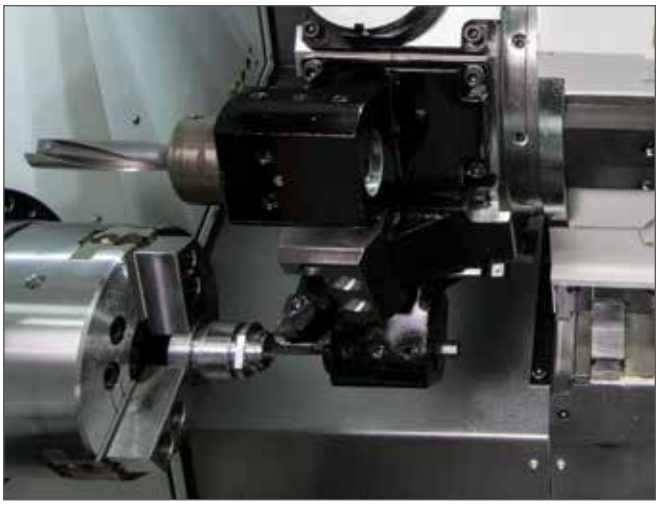
Y-AXIS OPTION

QTU MY and MSY models with Y-axis off-centerline machining capability feature Mazak's special high-gain servo-control turret/feed axis-motion. The double-slide design ensures rigid high-speed, high-precision positioning and machining along with smooth axis acceleration/deceleration.



X-, Y- and Z-axis positioning

For desired machine motion, the X, Y and Z axes are driven by AC servo motors. Direct coupling of motors to pretension ballscrews deliver exact positioning and precise motion control.

Y-axis option

The machine X-axis ballscrews work in tandem with Y-axis ballscrews that are inclined at 30 degrees to move machine turrets +/- 2" (50 mm) in the Y axis.

QTU Series machine rapid traverse speeds:

- 1,181 ipm (30 m/min) in X axis
- 1,418 ipm (36 m/min) in Z axis
- 394 ipm (10 m/min) in Y axis

The addition of Y-axis tandem tooling takes advantage of the Y-axis shift to create multiple tool positions at each turret pocket for increased turret tooling capacity.

SECOND SPINDLE OPTION

QTU MS or MSY machines feature second spindles for more productivity and to further reduce cost per part.

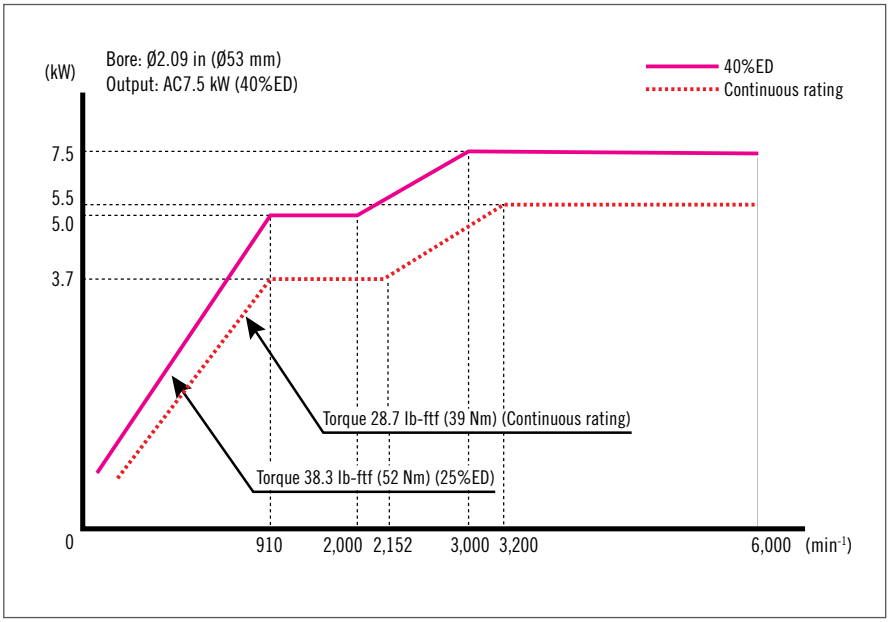
In operation, second spindles automatically transfer parts from one spindle to another for secondary operations to eliminate manual part handling. Part transfer capabilities also allow the machines to process both faces or sides of workpieces/backwork through secondary operations such as drilling and tapping.

With C-axis option, second spindles position in programmed 0.0001-degree increments and synchronize with machine X and Z axes for complex 3D part contouring on M and S designated models.

Features and benefits of second spindles:
- Add Mazak's DONE IN ONE® part processing capability
- Speed range of 35 to 6,000 rpm
- Air cooled
- Provide chuck-to-chuck part transfer capability for backworking/secondary operations
- Programmable C-axis motion
- Full C-axis brake

SECOND SPINDLE

SECONDARY SPINDLE MOTOR CHARACTERISTICS QTU-250MS/350MS/250MSY/350MSY



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OPTIONAL EQUIPMENT

Mazak offers a wide array of options from which to choose for the QTU Series that further enhance machine performance, increase uptime and boost overall operational efficiency.

- **Bar feeder and automatic parts catchers** for easily implemented, unattended operations
- **Automated loading systems (pre-engineered or custom systems)** are available for lights out production
- **Tool eye** automatically measures tool tip positions and detects wear/damage and greatly reduces setup time
- **Automatic front door open/close** for M-code controlled opening and closing
- **Chip conveyor** designs for a wide variety of materials
- **High-power coolant** delivers efficient chip evacuation for longer tool life
- **Mist collector** maintains clean, safe work areas
- **Probe kit RMP40M/LP2** provides in-process workpiece measurement
- **Turret air blast** keeps tool positions clear of chips and debris
- **Chuck air blast** removes sticking chips from chuck and workpiece

CHIP CONVEYOR

MIST COLLECTOR

FAST, EASY AND EFFICIENT PROGRAMMING

The continuously innovative Mazak MAZATROL Smooth CNC controls make programming QTU Series machines easy, fast and efficient. The highly versatile controls allow for both EIA/ISO and conversational programming capabilities, while they also significantly shorten programming time and streamline control navigation.

EIA/ISO COMPATIBILITY STANDARD

MAZATROL G-codes are the same as those used in conventional EIA CNC machines. This allows QTU Series machine users to run programs made for other machine brands by simply editing M codes and confirming axis strokes along with cutting conditions.

CONVERSATIONAL PROGRAMMING

The industry standard MAZATROL conversational programming makes it possible for inexperienced operators to quickly and easily develop machining programs for QTU Series machines. Operators answer conversationally displayed questions concerning the intended workpiece. These queries include type of material, OD/ID dimensions, part lengths and several others. Then, according to the input data, the MAZATROL control automatically calculates intersection coordinates and tool index positioning in addition to optimized cutting conditions and machining processes.

Number of program lines
89% REDUCTION

EIA / ISO language

MAZATROL language

PROCESS HOME SCREENS

Innovative touch operation of the MAZATROL SmoothC CNC streamlines data entry and minimizes the number of displays to reduce programming times for QTU Series machines. Five different home process screens each display their appropriate data in an easy to understand manner. Operators can touch icons to quickly navigate to additional screen displays.

Process home screens include:
- Programming
- Tool data
- Setup
- Machining
- Maintenance

MAZATROL SmoothC CONTROL

Mazak's MAZATROL SmoothC technology is simple but innovative and sports several features that enhance cutting capabilities. The MAZATROL SmoothC makes it easy for operators to generate programs for basic turning, milling, drilling and tapping operations.

The control incorporates a wide variety of advanced programming functions that allow it to offer complete ease of use and ensure high-speed, high-accuracy machining performance.

FEATURES AND FUNCTIONS INCLUDE:

- **Rapid Overlap** uses arcing motion between programmed stopping points to shorten cycle times
- **Smooth CAM RS** simulates SMOOTH controls on a remote PC
- **Intelligent Pocket Milling** engages a high-efficiency toolpath when milling part cavities
- **Smooth Corner Control** makes cutter path adjustments to help shorten cycle times
- **Orbit Machining** allows a machining center with a C-axis to turn complex features on parts
- **EIA/ISO and conversational** programming capabilities

MAZATROL SmoothC SPECIFICATIONS

	MAZATROL	EIA
Number of controlled axes	Simultaneous 2 ~ 4 axes	
Least input increment	0.00001 inch, 0.0001 mm, 0.0001º	
High speed, high-precision control	Shape error designation, Smooth corner control, Rapid traverse overlap, Rotary axis shape compensation	Shape error designation, Smooth corner control, Rapid traverse overlap, Rotary axis shape compensation, High-speed machining mode, High-speed smoothing control function
Interpolation	Positioning (Linear interpolation), Positioning (Independent interpolation), Linear interpolation, Circular interpolation, Synchronized milling spindle tapping*	Positioning (Linear interpolation), Positioning (Independent interpolation), Linear interpolation, Circular interpolation, Spiral interpolation, Helical interpolation, Cylindrical coordinate interpolation*, Fine spline interpolation*, NURBS interpolation*, Polar coordinate interpolation*, Synchronized milling spindle tapping*
Feed rate	Rapid traverse, Cutting feed, Cutting feed (per minute), Dwell (specified time, specified number of rotation), Rapid traverse override, Cutting feed override, G0 speed variable control, Feedrate clamp, Variable acceleration/deceleration control, Constant control for G0 tilting*	Rapid traverse, Cutting feed, Cutting feed (per minute), Inverse time feed, Dwell (specified time, specified number of rotation), Rapid traverse override, Cutting feed override, G0 speed variable control, Feedrate clamp, Time constant changing for G1, Variable acceleration/deceleration control, Constant control for G0 tilting*
Program registration	Max. number of programs: 960, Program storage: 2 MB, Program storage expansion: 8 MB*, Program storage expansion: 32 MB*	
Control display	Display: 10.4" touch panel, Resolution: VGA	
Spindle functions	S code output, Spindle speed clamp, Spindle speed override, Spindle speed reaching detection, Multiple position orient, Constant surface speed, Spindle speed command with decimal digits, Synchronized spindle control, Max. speed control for spindle	
Tool functions	Tool offset pairs: 4000, T code output for tool number, Tool life monitoring (time), Tool life monitoring (number of machined workpieces)	Tool offset pairs: 4000, T code output for tool number, T code output for group number, Tool life monitoring (time), Tool life monitoring (number of machined workpieces)
Miscellaneous functions	M code output, Simultaneous output of multiple M codes	
Tool offset functions	Tool position offset, Tool length offset, Tool diameter/tool nose R offset, Tool wear offset	
Tool offset pairs	128	
Coordinate system	Machine coordinate system, Work coordinate system, Local coordinate system, Additional work coordinates (300 set)	
Machine functions	—	Hobbing*, Shaping function*, Dynamic compensation*
Machine compensation	G0/G1 independent backlash compensation, Pitch error compensation, Volumetric compensation*	
Protection functions	Emergency stop, Interlock, Stroke check before travelling, Retraction function for the vertical axis	
Automatic operation mode	Memory operation	Memory operation, Tape operation, MDI operation, EtherNet operation*
Automatic operation control	Optional stop, Dry run, Automatic handle control, MDI control, TPS, Restart, Machine lock	Optional block skip, Optional stop, Dry run, Automatic handle control, MDI control, TPS, Restart, Restart 2, Collation stop, Machine lock
Manual measuring functions	Tool length and tip teach, Touch sensor coordinates measurement, Workpiece offset measurement, WPC coordinate measurement, Measurement on machine	Tool length and tip teach, Tool offset teach, Touch sensor coordinates measurement, Workpiece offset measurement, WPC coordinate measurement, Measurement on machine
Automatic measuring functions	WPC coordinate measurement, Auto tool length measurement, Sensor calibration, Tool eye auto tool measurement, Tool breakage detection, External tool breakage detection*	Auto tool length measurement, Sensor calibration, Tool breakage detection, External tool breakage detection*
MDI measurement	Partial auto tool length measurement, Auto tool length measurement, Coordinate measurement	
Interface	PROFIBUS-DP*, EtherNet I/P*, CC-Link*, USB	
Card interface	SD card interface	
EtherNet	10 M / 100 M / 1 G bps	

* Option

MAZAK AUTOMATION SYSTEMS

Mazak automation further increases the productivity, throughput and part quality of the QTU Series machines. Standard and customized Mazak automation solutions paired with extensive and ongoing support ensure the best fit for individual production needs and that output goals are achieved.

STANDARD AUTOMATION

BAR FEEDER

GANTRY LOADER

BAR FEEDERS

Bar feeders are the simplest, most cost-effective forms of automating the loading and feeding of bar material into a QTU Series machine.

Bar feeders provide the capability to:

- Easily and affordably boost machining efficiency and productivity
- Increase throughput by not having to individually feed slug material
- Automatically sequence workpiece machining for minimal bar material scrap
- Machine multiple part types from one piece of bar material
- Save workspace via side storage and bar loading
- Precisely machine at high speeds as the machine's spindle remains unaffected
- Process bar materials with imperfect shapes and dimensions

GANTRY LOADERS

Gantry loaders quickly load and unload workpieces into and from machines and are ideal for small batch runs of common part families. The automation is easy to install and operate and is most suitable for chucker-style work, but can handle certain length sizes for shaft applications.

Gantry loaders provide the capability to:

- Economically boost efficiency through unsupervised workpiece loading and unloading
- Achieve continuous operation with accurate and consistent performance
- Shorten workpiece change times for an overall increase in productivity
- Increase versatility via a variety of loading stations and robot hands
- Effectively run multiple machines with only one operator

Mazak AUTOMATION SYSTEMS
Automation Solutions by Mazak

ENGINEERED SOLUTIONS


CELLS AND SYSTEMS


ARTICULATED ROBOT

CUSTOM ENGINEERED SOLUTIONS

A variety of custom automation solutions tailored specifically to individual customer needs are available for QTU Series machines. Mazak's expert applications engineers design and implement systems and software that will boost productivity and ensure maximum return on customer automation investments.

Custom engineered solutions provide the capability to:

- Boost machine throughput and part quality
- Ensure production reliability and repeatability
- Service one or more machines with minimal operator intervention
- Perform multiple tasks and eliminate the number of necessary components in a system
- Keep machines running 24/7 without additional night or weekend shifts
- Reduce in-process inventory and accomplish just-in-time production

ARTICULATED ROBOTS

Articulated robots automate part transfers and peripheral operations. They also eliminate the challenges associated with handling large, heavy or cumbersome parts. Robot configurations range from two jointed to seven jointed to meet the needs of various applications.

MAZAK DIGITAL SOLUTIONS

For the QTU Series and all its machines, Mazak offers digital solutions for fully integrated, data-driven smart manufacturing. These progressive solutions include SMOOTH TECHNOLOGY, MTConnect®, Mazak SMOOTH Link and the Mazak SmartBox.

SMOOTH TECHNOLOGY

Spanning the entire part-production landscape, Mazak's SMOOTH TECHNOLOGY platform significantly boosts productivity at every stage of the metal cutting process — from programming and setup to actual metal removal operations to automation to monitoring/data collection and transfer.

Features and benefits of SMOOTH TECHNOLOGY:

- All-encompassing continuously evolving process-performance technology platform
- Combines advanced capabilities of machine tools and leading-edge CNC processing and software technologies
- Makes machine tools easy to use
- Boosts machining speed and performance accuracy

MTCONNECT

As an open-source, royalty-free manufacturing protocol, MTConnect easily connects devices and systems from different suppliers to capture and share information in a common format such as XML. It then gives manufacturers the means to gather valuable data from machines and automated systems for use in process improvement and increased equipment utilization.

With MTConnect, manufacturers can:

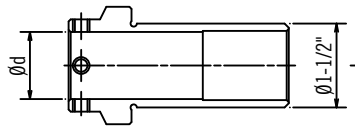
- Gain real-time data sharing throughout a manufacturing facility
- Calculate overall equipment efficiency
- Monitor all equipment from one system
- Reduce production losses
- Identify lean manufacturing strategies

Mazak builds all its machines, including those in the QTU Series, to be MTConnect compliant and offers affordable adapters for existing Mazak machines in the field.

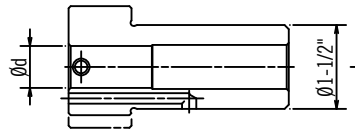
TOOLING SYSTEM (2 AXIS) – QTU-200/250/350 MODELS

(FOR REFERENCE ONLY)

BORING BAR SOCKET

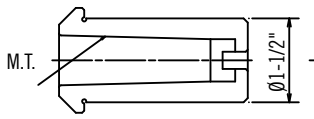


d	STD. QTY.	
	8"	10"
Ø1-1/4"	1	1
Ø1"	1	1



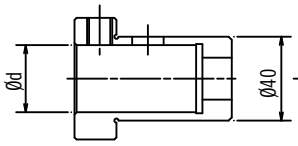
d	STD. QTY.	
	8"	10"
Ø3/4"		
Ø5/8"		
Ø1/2"		
Ø3/8"		
Ø5/16"		

M.T. DRILL SOCKET



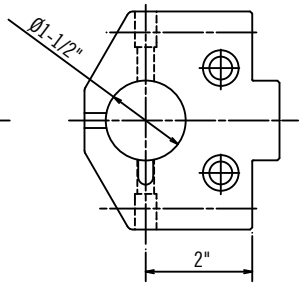
M.T.	STD. QTY.	
	8"	10"
M.T.3		
M.T.2	1	1
M.T.1		

U DRILL SOCKET



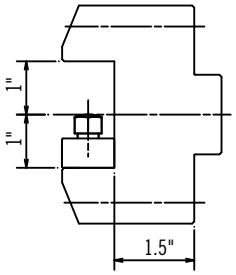
d	STD. QTY.	
	8"	10"
Ø32		
Ø25		
Ø20		

BORING BAR HOLDER



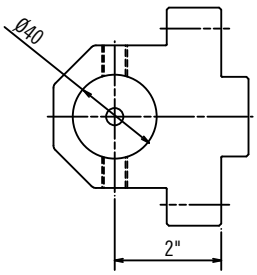
STD. QTY.	
8"	10"
2	2

FACING HOLDER



STD. QTY.	
8"	10"

U DRILL HOLDER

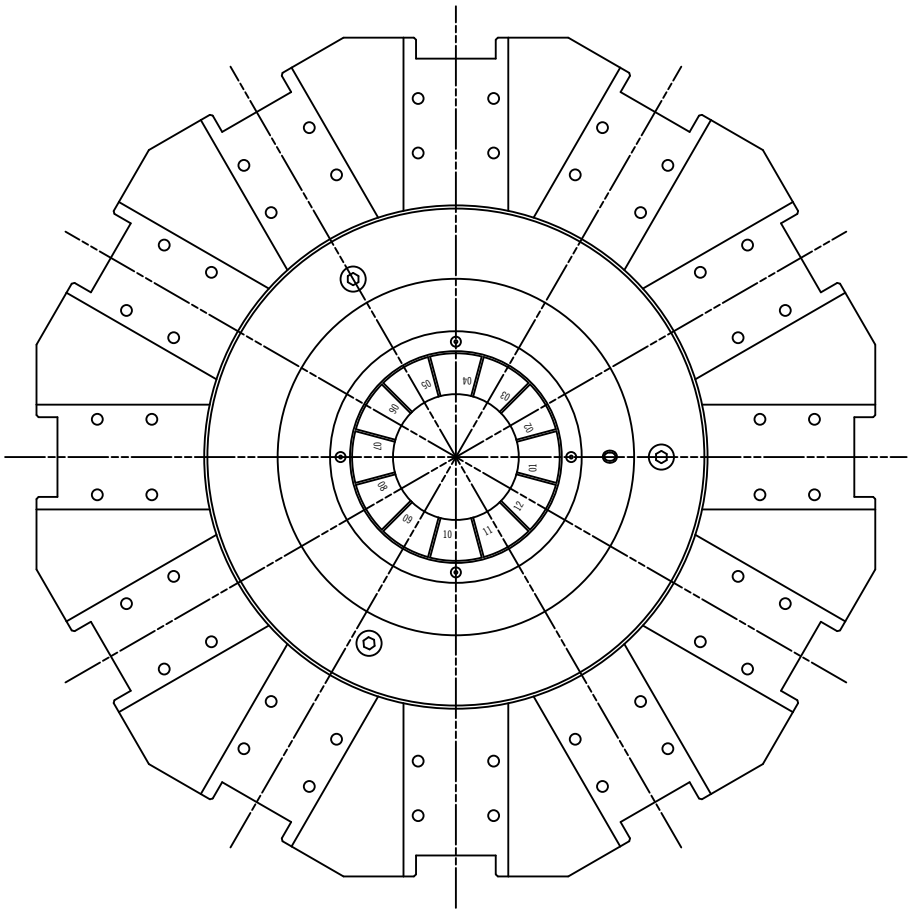


STD. QTY.	
8"	10"
1	1

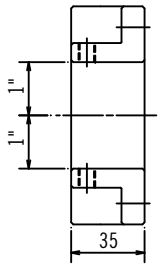
Metric available upon request.

TOOLING SYSTEM (2 AXIS) – QTU-200/250/350 MODELS

(FOR REFERENCE ONLY)

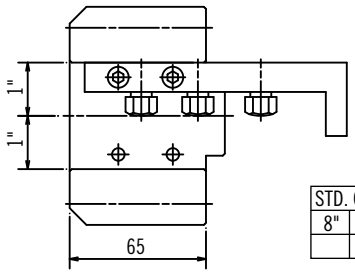


TURNING HOLDER



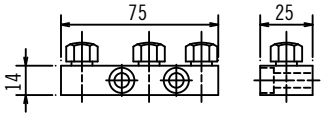
STD. QTY.	
8"	10"
2	

TURNING HOLDER
FOR 10" CHUCK



STD. QTY.	
8"	10"
	2

TURNING BLOCK

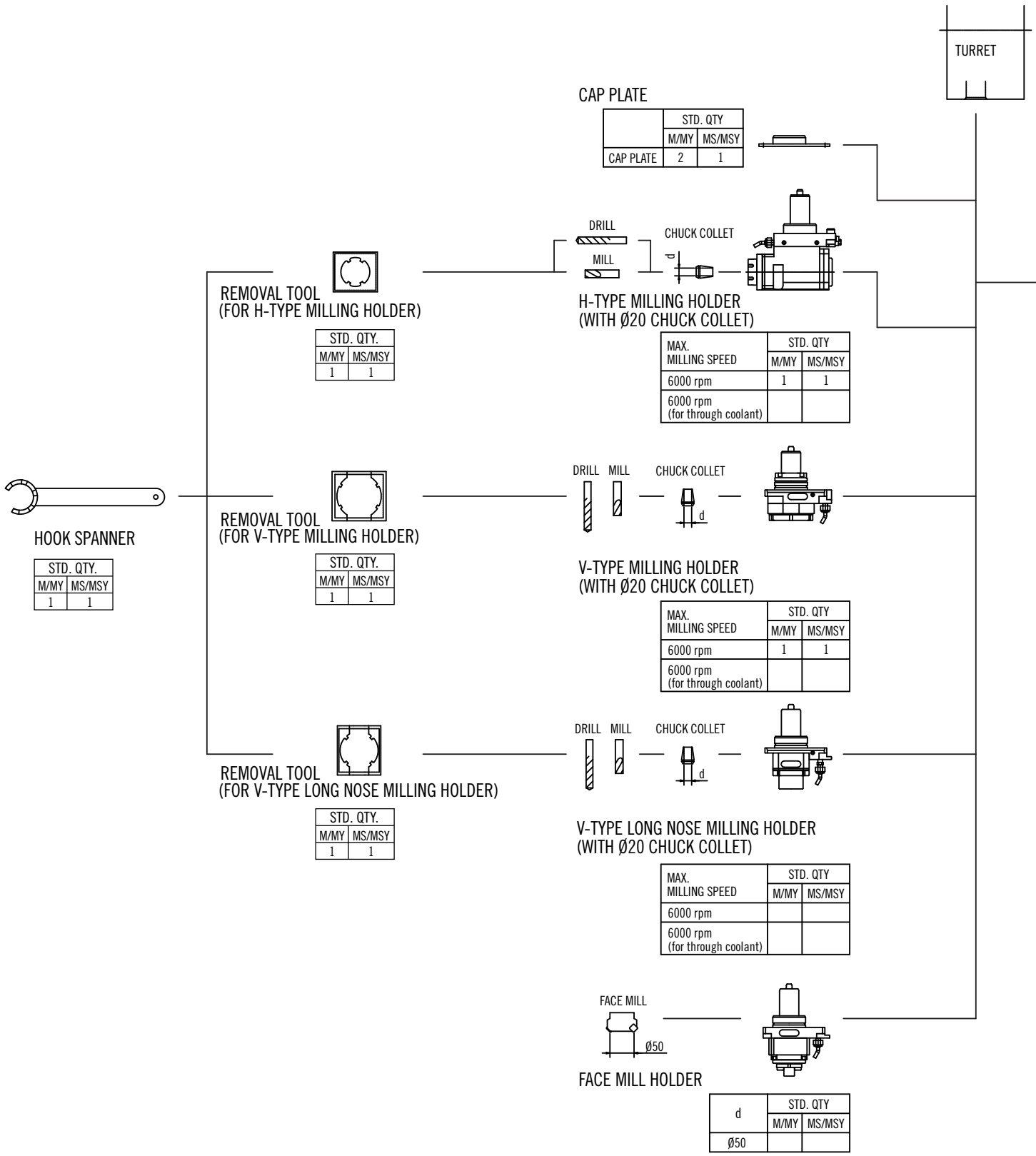


STD. QTY.	
8"	10"
5	3

Metric available upon request.

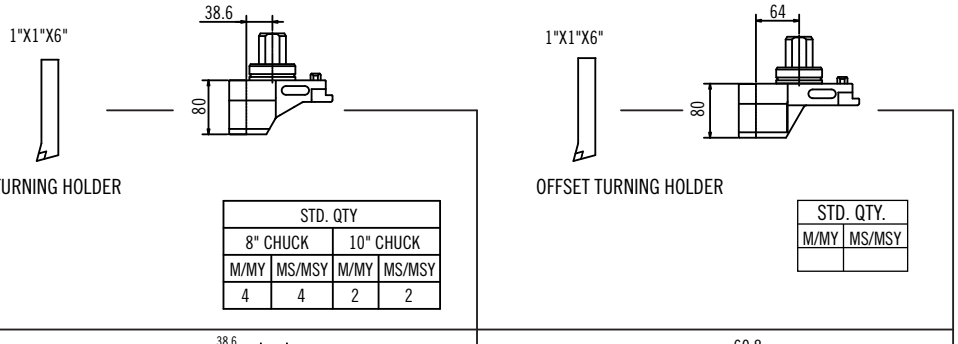
TOOLING SYSTEM – M/MS/MY/MSY 1ST PROCESS

(FOR REFERENCE ONLY)



Metric available upon request.

TOOLING SYSTEM – M/MS/MY/MSY 1ST PROCESS
(FOR REFERENCE ONLY)

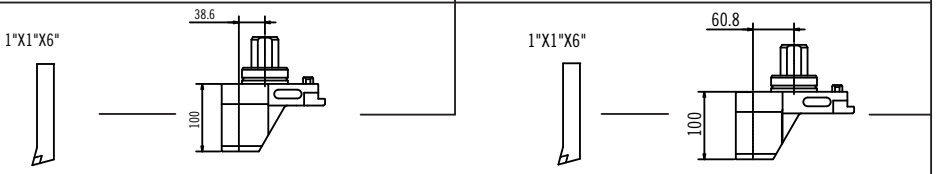


TURNING HOLDER

STD. QTY			
8" CHUCK		10" CHUCK	
M/MY	MS/MSY	M/MY	MS/MSY
4	4	2	2

OFFSET TURNING HOLDER

STD. QTY.	
M/MY	MS/MSY



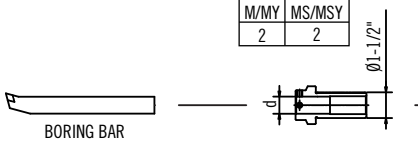
TURNING HOLDER FOR 10"CHUCK

STD. QTY.	
M/MY	MS/MSY
2	2

OFFSET TURNING HOLDER FOR 10"CHUCK

UNIT NO.	PARTS CODE NO.
5B078013001	2B078001920

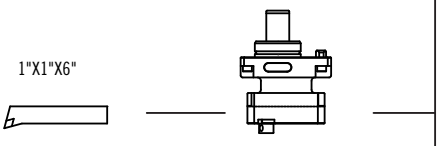
STD. QTY.	
M/MY	MS/MSY



BORING BAR

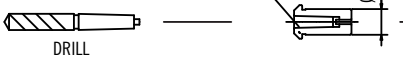
BORING BAR SOCKET

d	STD. QTY	
	M/MY	MS/MSY
Ø5/16"		
Ø3/8"		
Ø1/2"		
Ø5/8"		
Ø3/4"		
Ø1"	1	1
Ø1-1/4"	1	1



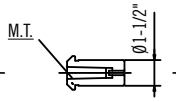
FACING HOLDER

STD. QTY.	
M/MY	MS/MSY
1	

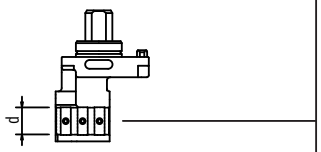


DRILL

DRILL SOCKET



M.T.	STD. QTY	
	M/MY	MS/MSY
NO.1		
NO.2	1	1
NO.3		



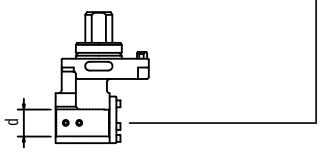
BORING BAR HOLDER

d	STD. QTY	
	M/MY	MS/MSY
Ø1-1/2"	2	2

U DRILL

U DRILL SOCKET

d	STD. QTY	
	M/MY	MS/MSY
Ø20		
Ø25		
Ø32		



U DRILL HOLDER

d	STD. QTY	
	M/MY	MS/MSY
Ø40	1	0

CHUCK COLLET

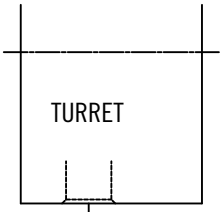
TYPE	STD. QTY
ER32-2	
ER32-2.5	
ER32-3	
ER32-3.5	
ER32-4	
ER32-4.5	
ER32-5	
ER32-6	
ER32-7	
ER32-8	
ER32-9	
ER32-10	
ER32-11	
ER32-12	1
ER32-13	
ER32-14	
ER32-15	
ER32-16	1
ER32-17	
ER32-18	
ER32-19	
ER32-20	

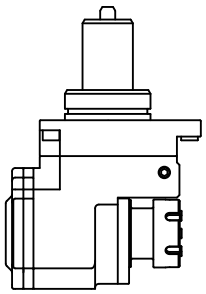
CHUCK COLLET
(applicable to through coolant)

TYPE	STD. QTY
AR32-OH-8	
AR32-OH-8.5	
AR32-OH-9	
AR32-OH-9.5	
AR32-OH-10	
AR32-OH-10.5	
AR32-OH-11	
AR32-OH-11.5	
AR32-OH-12	
AR32-OH-12.5	
AR32-OH-13	
AR32-OH-13.5	
AR32-OH-14	
AR32-OH-14.5	
AR32-OH-15	
AR32-OH-15.5	
AR32-OH-16	
AR32-OH-16.5	
AR32-OH-17	
AR32-OH-17.5	
AR32-OH-18	
AR32-OH-18.5	
AR32-OH-19	
AR32-OH-19.5	
AR32-OH-20	

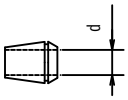
Metric available upon request.

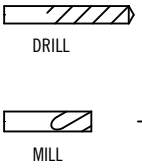
TOOLING SYSTEM – MS/MSY 2ND PROCESS
(FOR REFERENCE ONLY)





H-TYPE BACK MILLING HOLDER
(WITH Ø20 CHUCK COLLET

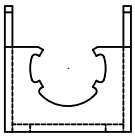




STD. QTY

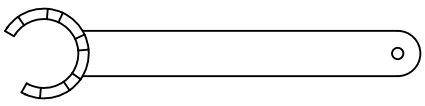
COLLET

d	STD. QTY
0.079" (Ø2)	
0.098"(Ø2.5)	
0.118" (Ø3)	
0.138"(Ø3.5)	
0.157" (Ø4)	
0.177"(Ø4.5)	
0.197" (Ø5)	
0.236" (Ø6)	
0.276" (Ø7)	
0.315" (Ø8)	
0.354" (Ø9)	
0.394"(Ø10)	
0.433"(Ø11)	
0.472"(Ø12)	
0.512"(Ø13)	
0.551"(Ø14)	
0.591"(Ø15)	
0.630"(Ø16)	
0.669"(Ø17)	
0.709"(Ø18)	
0.748"(Ø19)	
0.789"(Ø20)	



STD. QTY

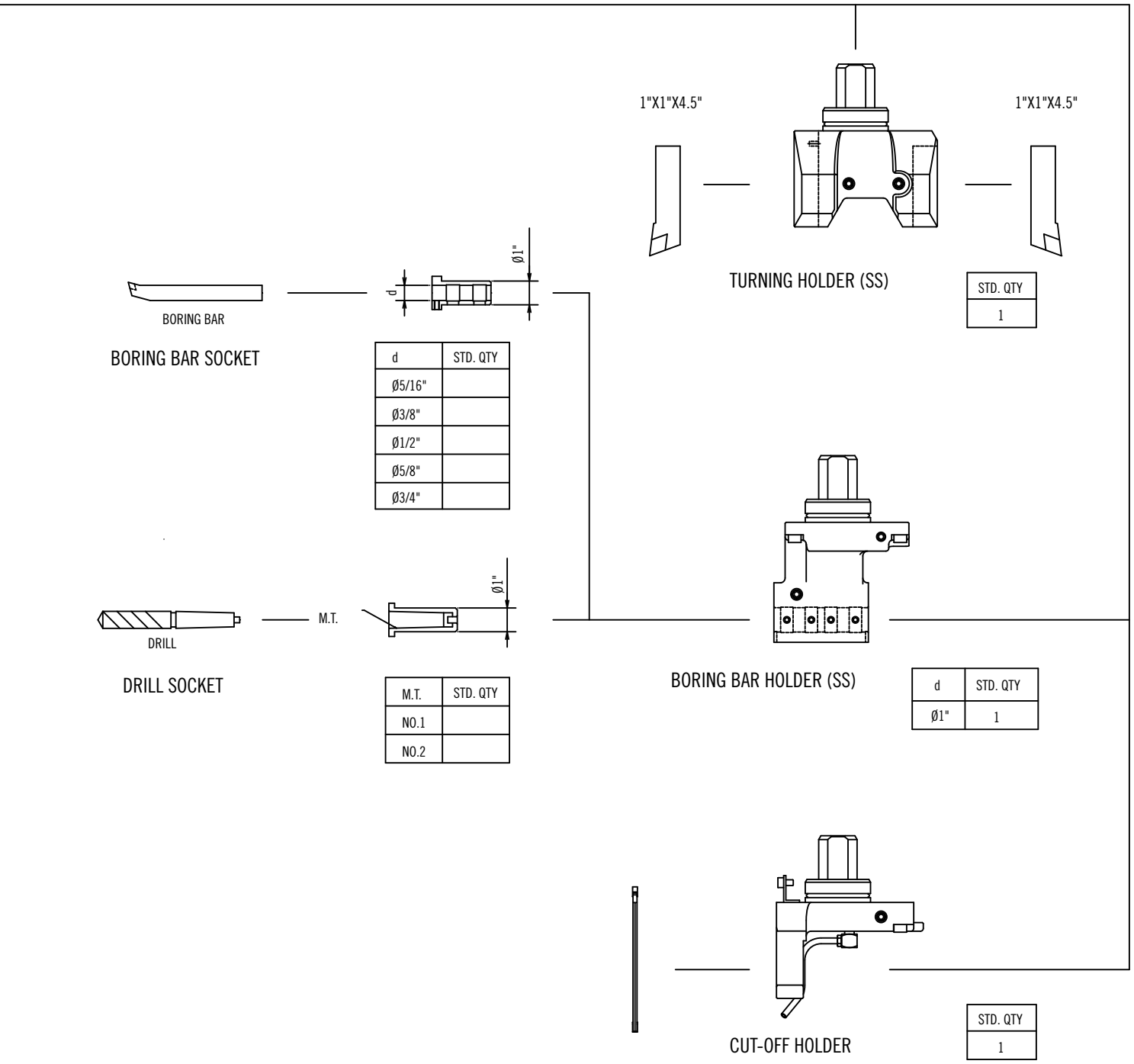
REMOVAL TOOL
(FOR H-TYPE BACK MILLING HOLDER)



HOOK SPANNER

Metric available upon request.

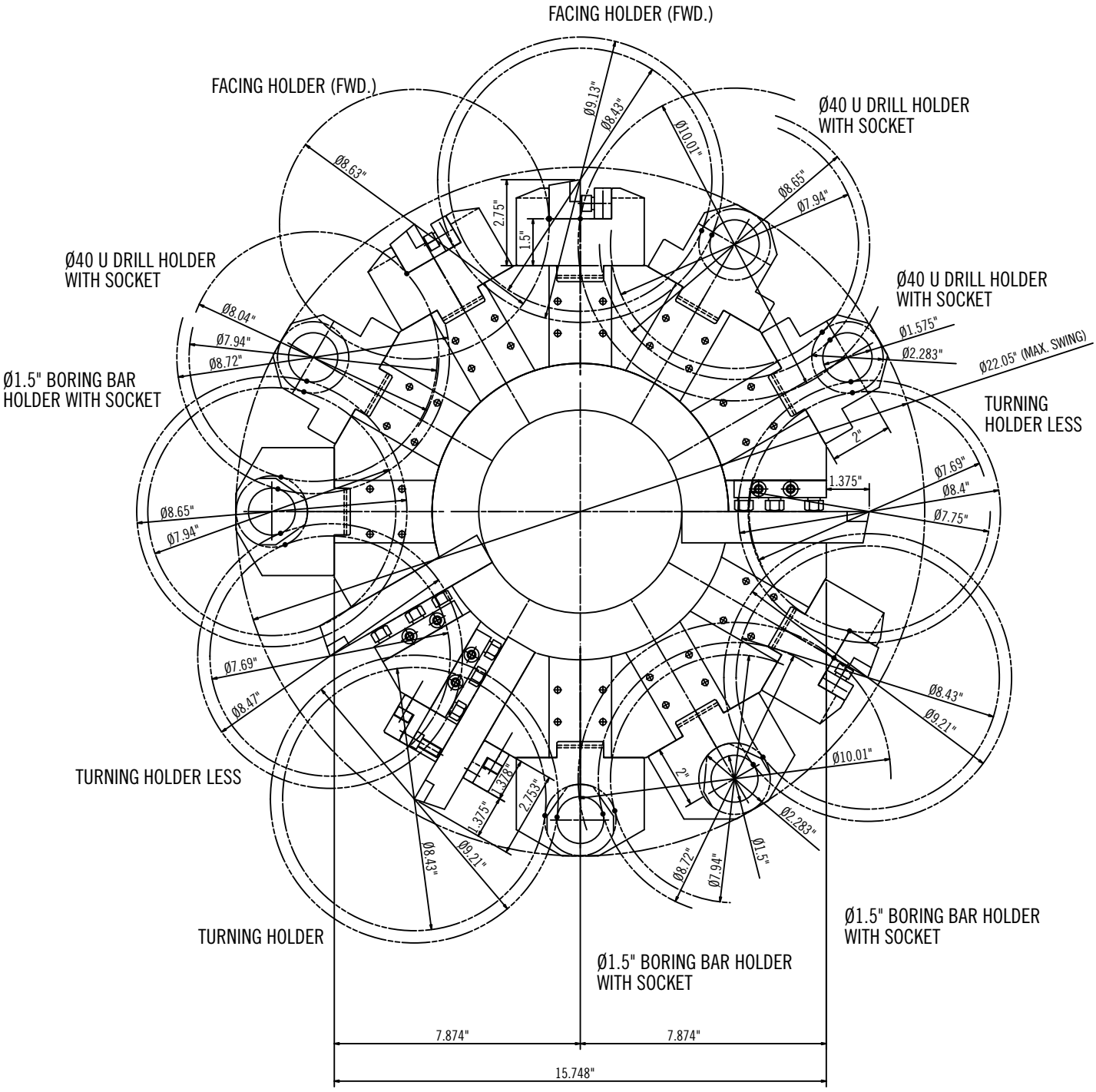
TOOLING SYSTEM – MS/MSY 2ND PROCESS
(FOR REFERENCE ONLY)



Metric available upon request.

TOOLING INTERFERENCE DIAGRAM – 2-AXIS FOR 6"/8" CHUCK

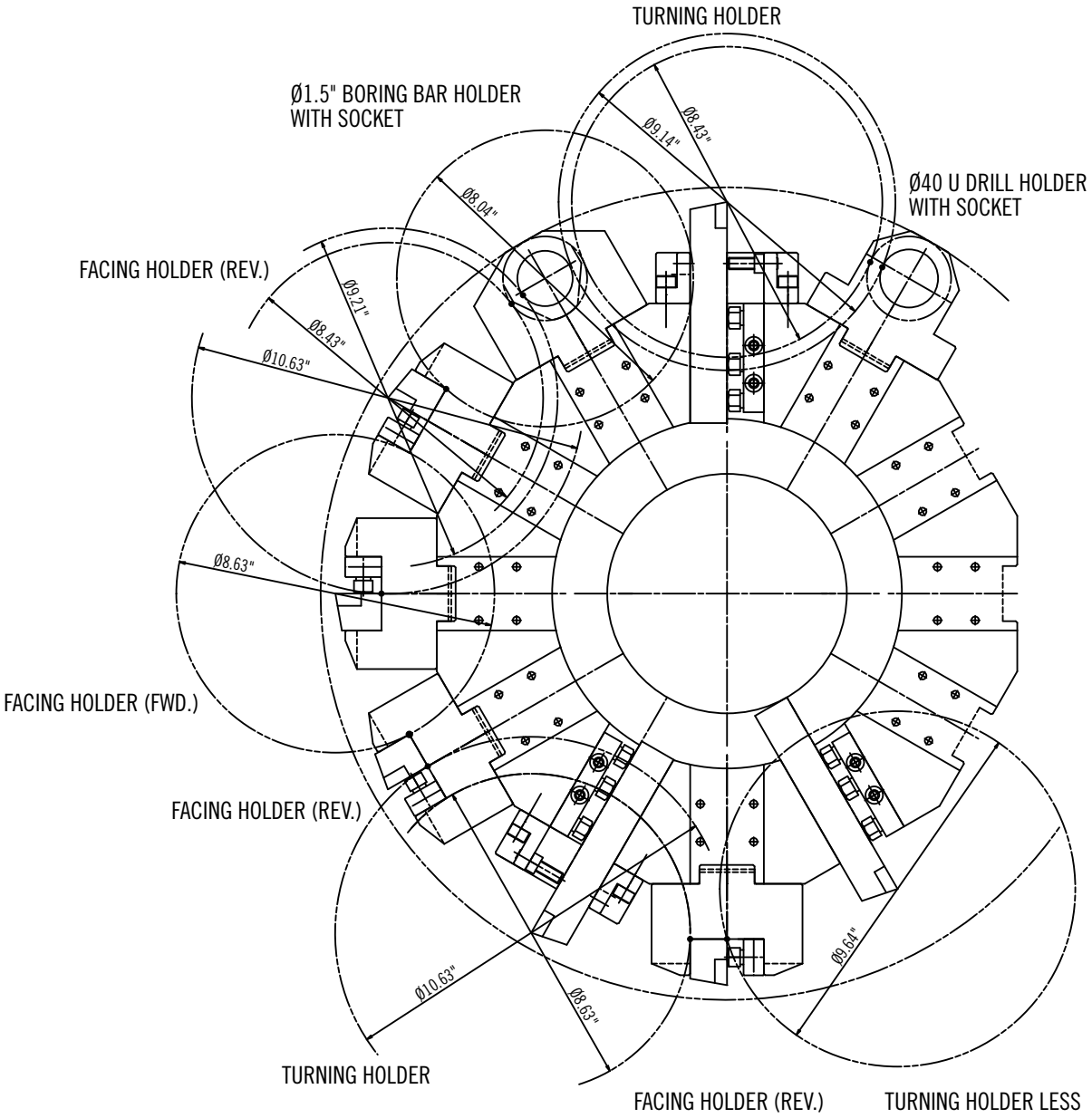
(FOR REFERENCE ONLY)



Metric available upon request.

TOOLING INTERFERENCE DIAGRAM – 2-AXIS FOR 6"/8" CHUCK

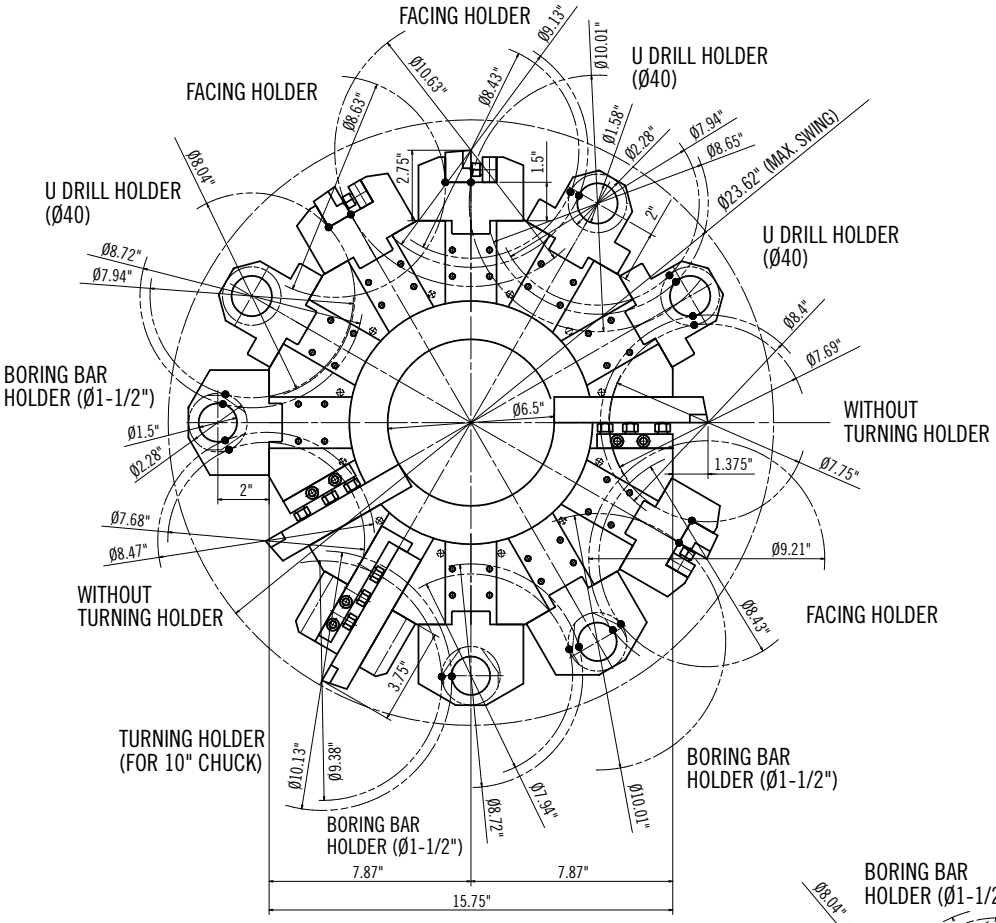
(FOR REFERENCE ONLY)

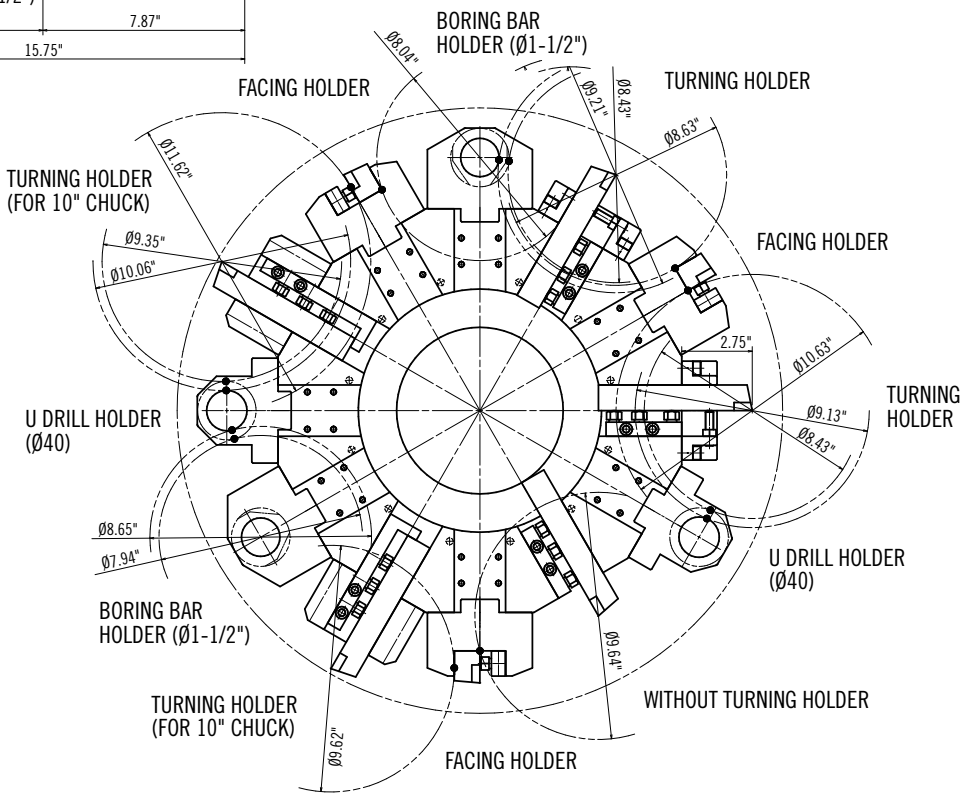


Metric available upon request.

TOOLING INTERFERENCE DIAGRAM – 2-AXIS FOR 10" CHUCK

(FOR REFERENCE ONLY)

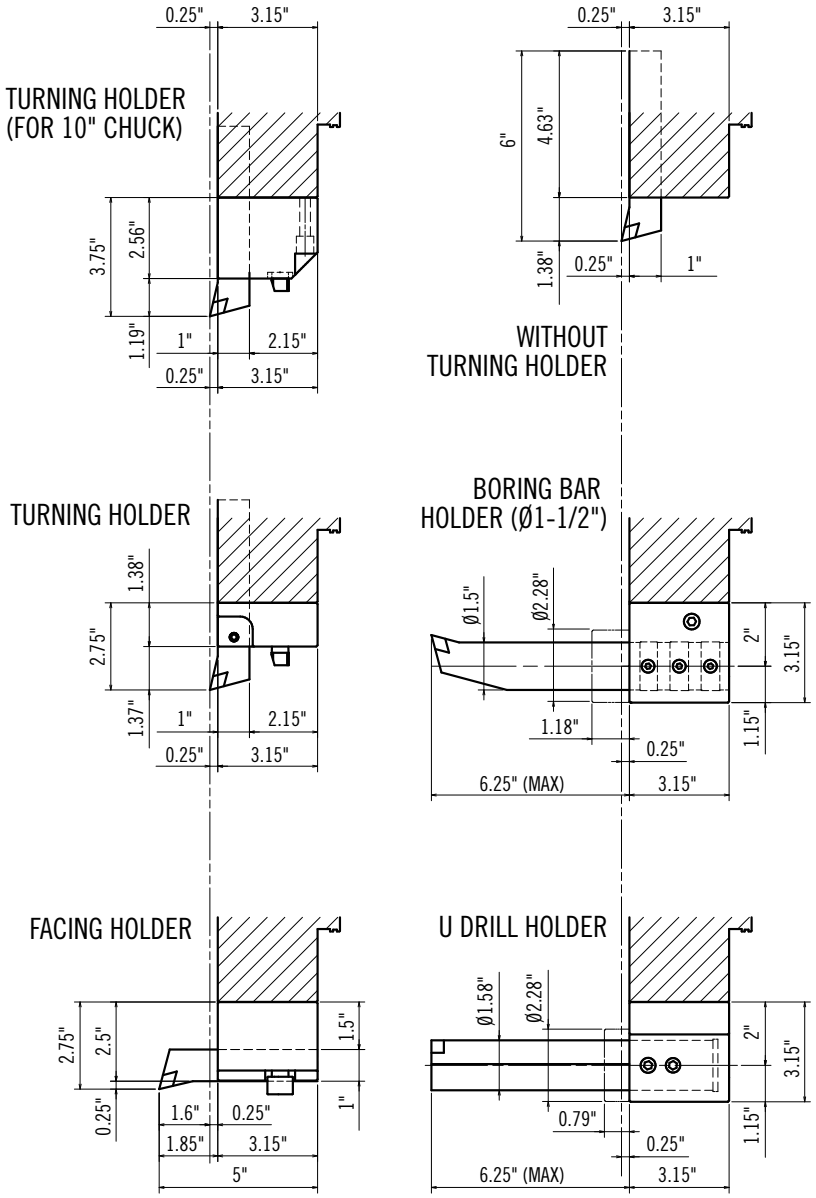




Metric available upon request.

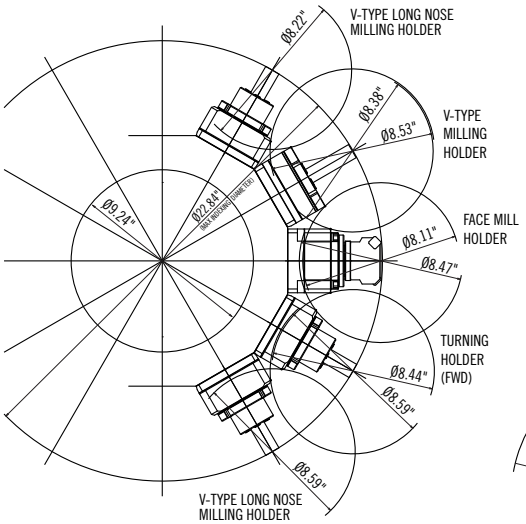
TOOLING INTERFERENCE DIAGRAM – 2-AXIS FOR 10" CHUCK

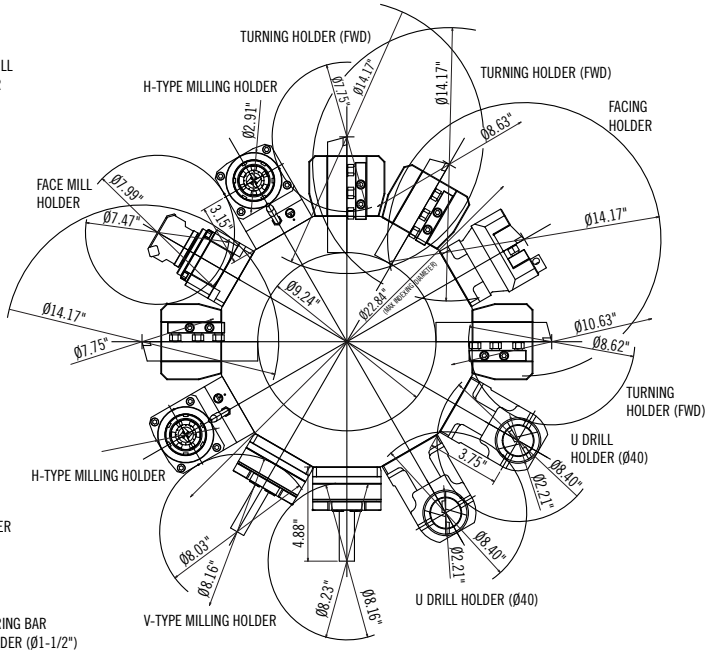
(FOR REFERENCE ONLY)

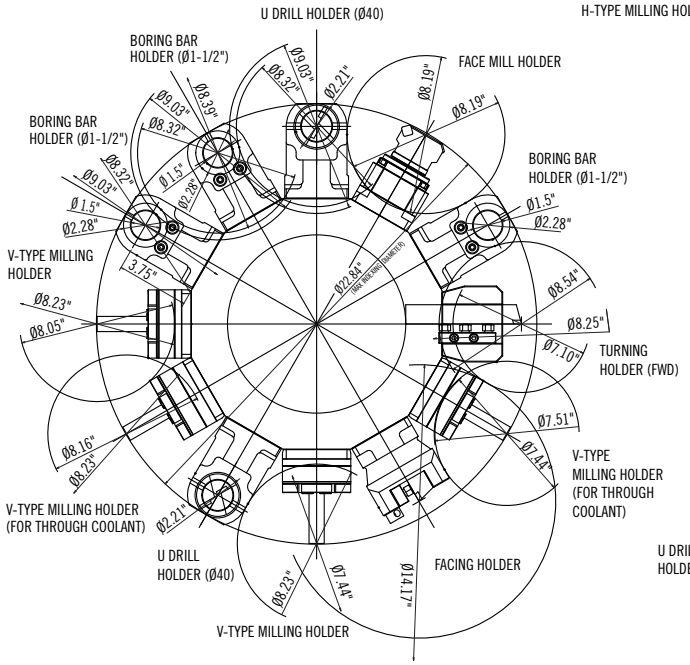


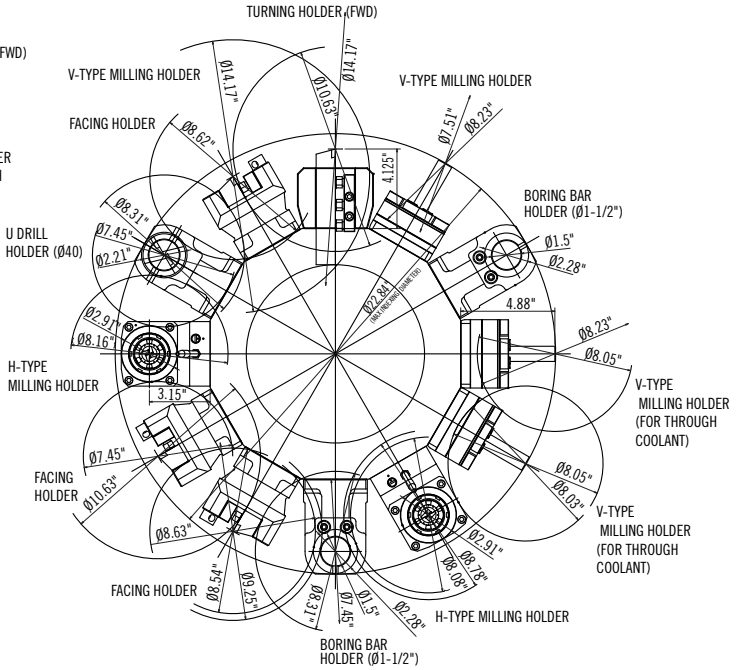
Metric available upon request.

TOOLING INTERFERENCE DIAGRAM – M/MY/MS/MSY FOR 6"/8" CHUCK
1ST PROCESS (FOR REFERENCE ONLY)





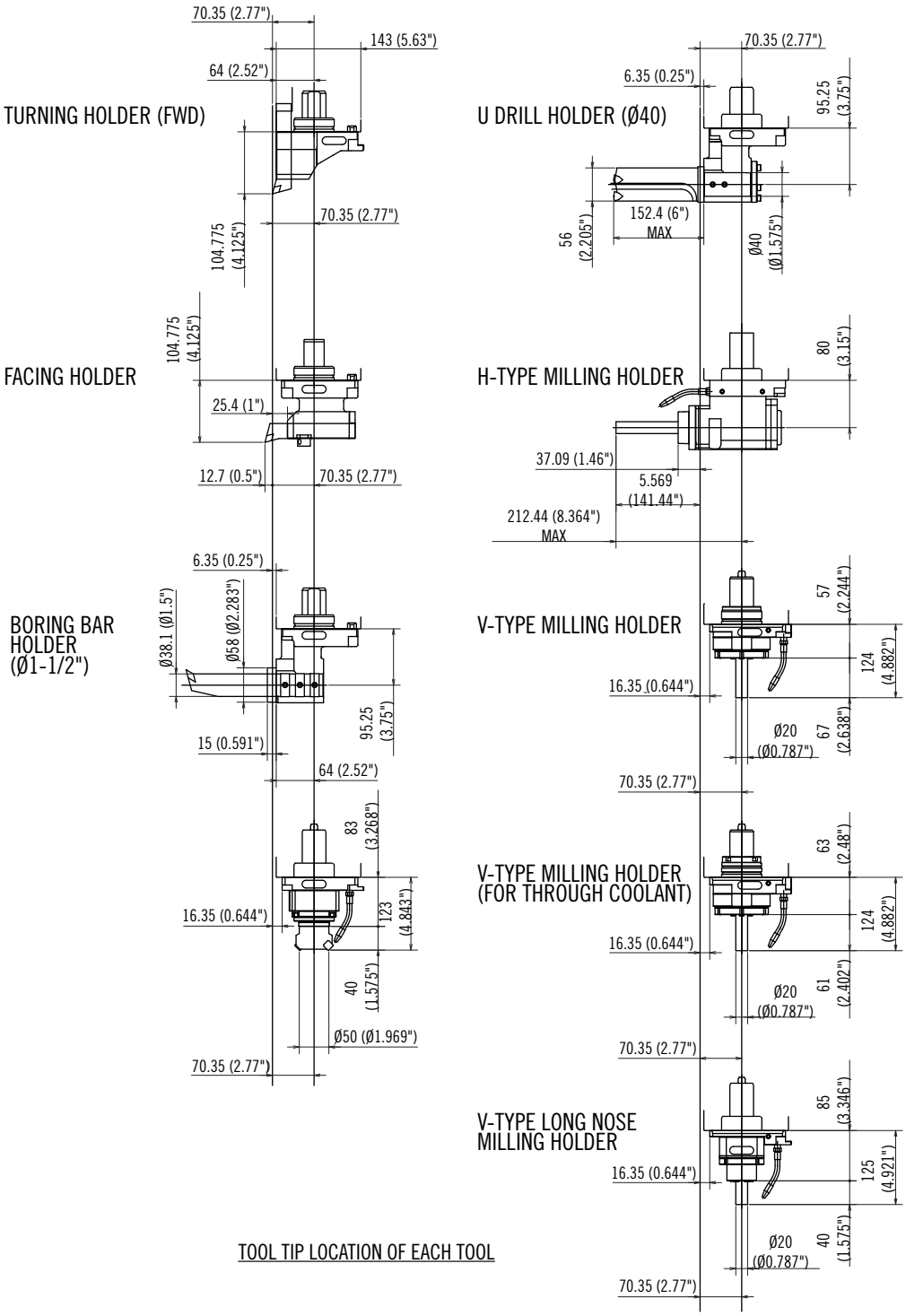




Metric available upon request.

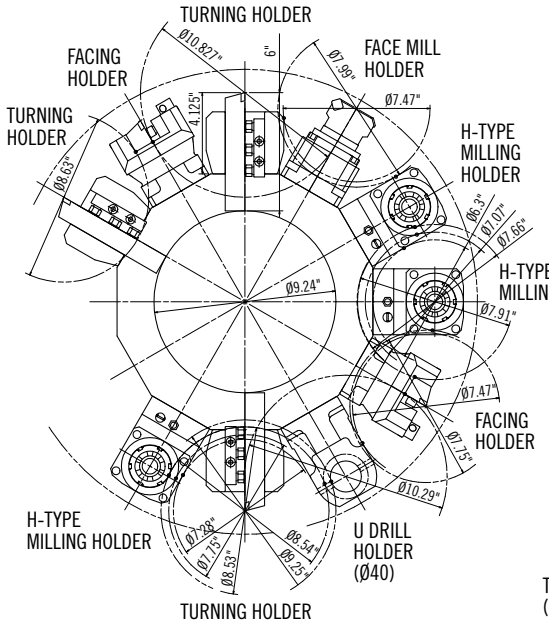
TOOLING INTERFERENCE DIAGRAM – M/MY/MS/MSY FOR 6"/8" CHUCK

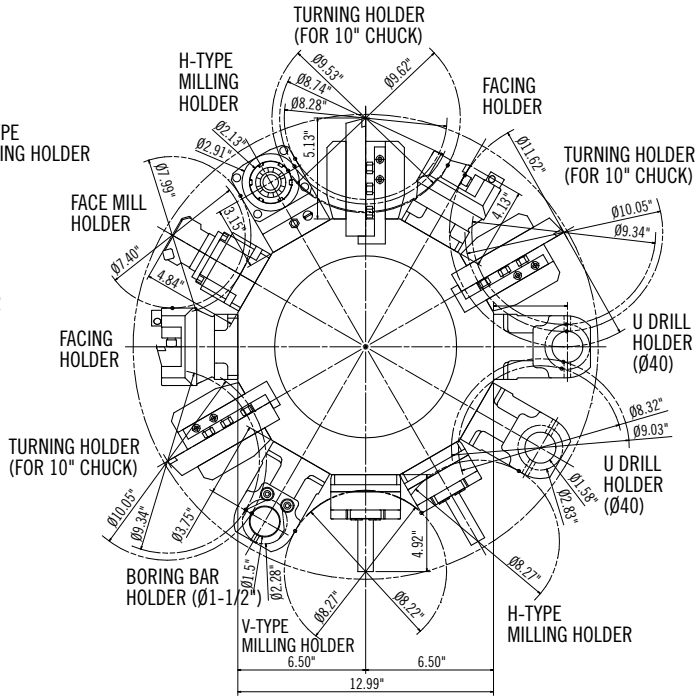
1ST PROCESS (FOR REFERENCE ONLY)

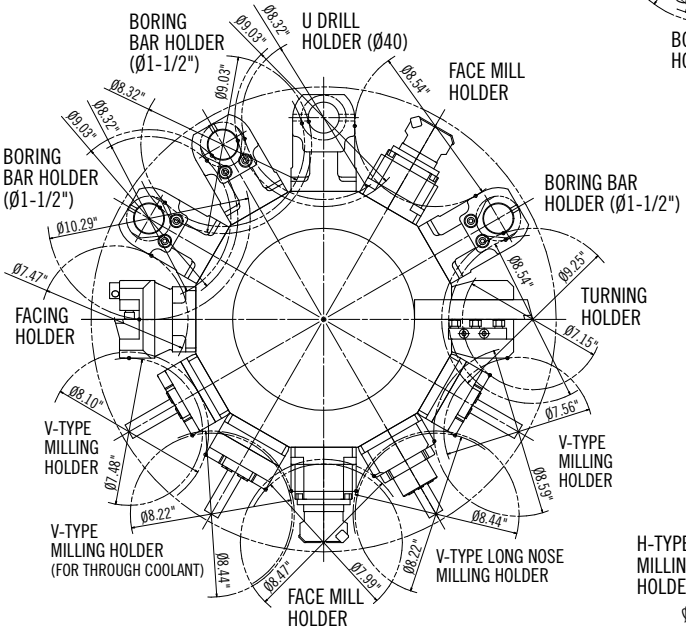


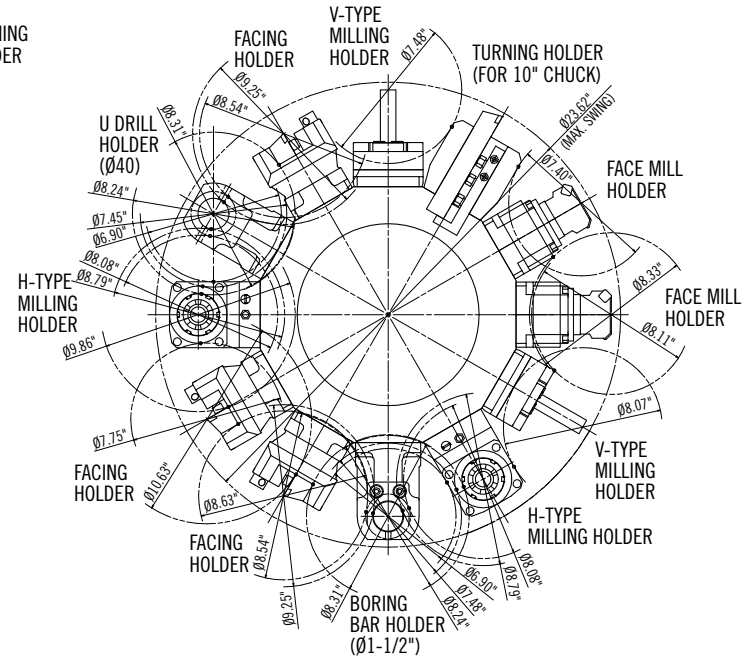
TOOLING INTERFERENCE DIAGRAM – M/MY/MS/MSY FOR 10" CHUCK

1ST PROCESS (FOR REFERENCE ONLY)



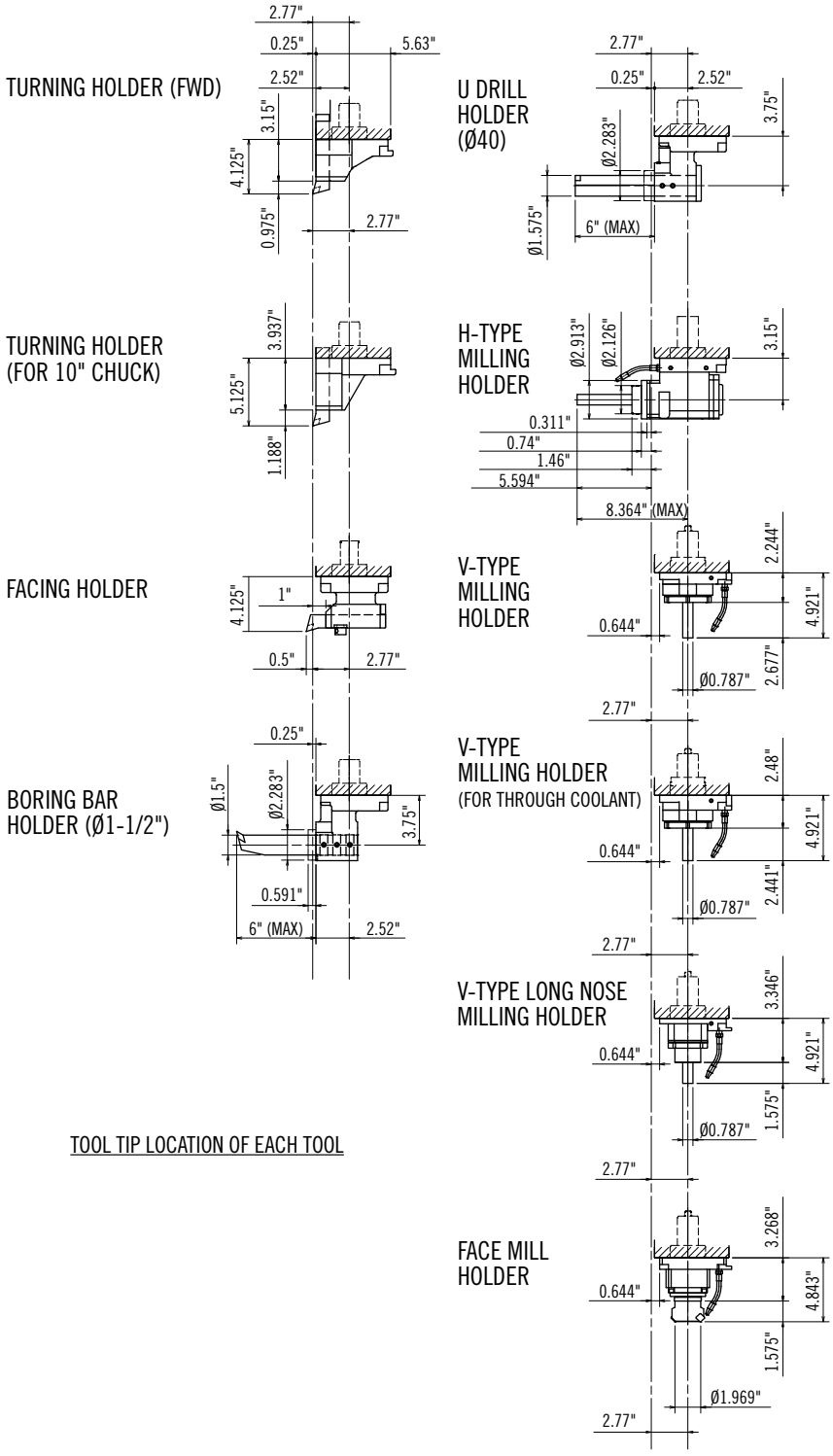






Metric available upon request.

TOOLING INTERFERENCE DIAGRAM – M/MY/MS/MSY FOR 10" CHUCK
1ST PROCESS (FOR REFERENCE ONLY)

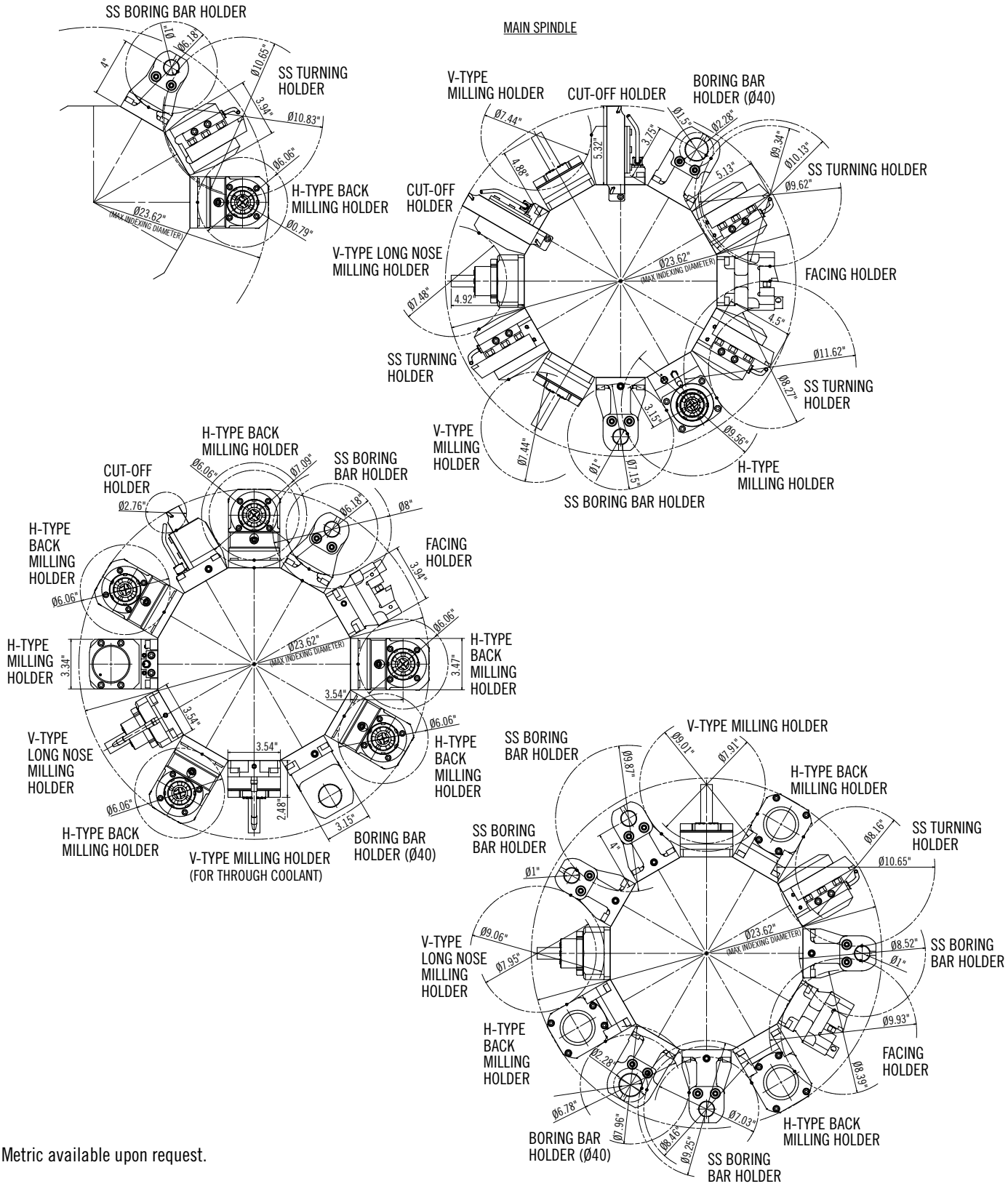


TOOL TIP LOCATION OF EACH TOOL

Metric available upon request.

TOOLING INTERFERENCE DIAGRAM – M/MY/MS/MSY FOR 10" CHUCK

1ST PROCESS (FOR REFERENCE ONLY)

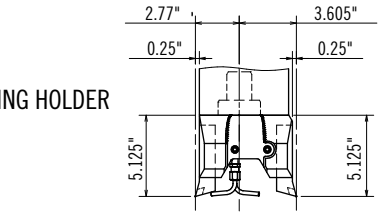


Metric available upon request.

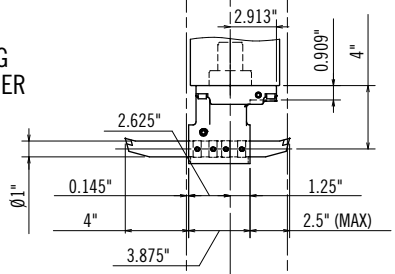
TOOLING INTERFERENCE DIAGRAM – M/MY/MS/MSY FOR 10" CHUCK

1ST PROCESS (FOR REFERENCE ONLY)

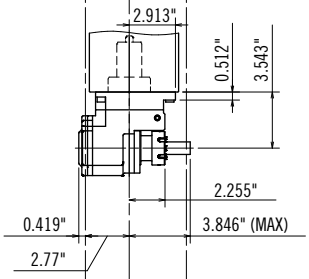
SS TURNING HOLDER



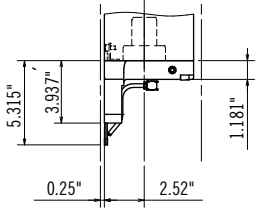
SS BORING BAR HOLDER



H-TYPE BACK MILLING HOLDER

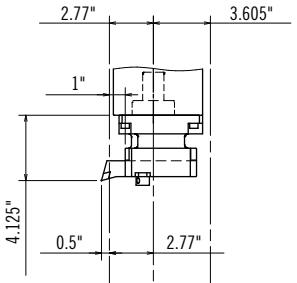


CUT-OFF HOLDER

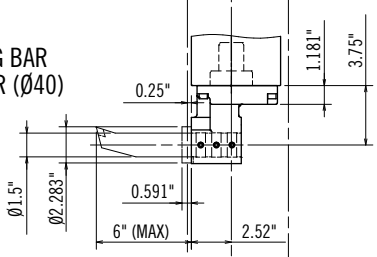


TOOL TIP LOCATION OF EACH TOOL

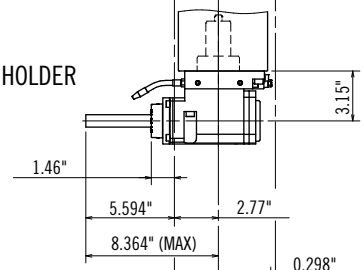
FACING HOLDER



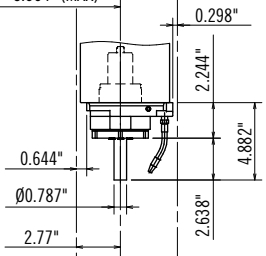
BORING BAR HOLDER (Ø40)



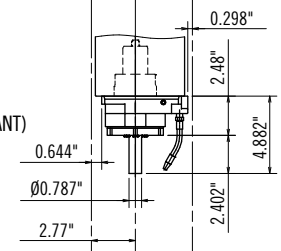
H-TYPE MILLING HOLDER



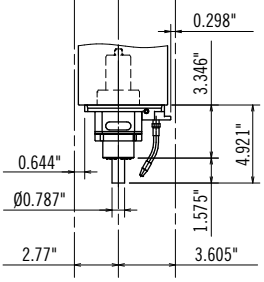
V-TYPE MILLING HOLDER



V-TYPE MILLING HOLDER (FOR THROUGH COOLANT)

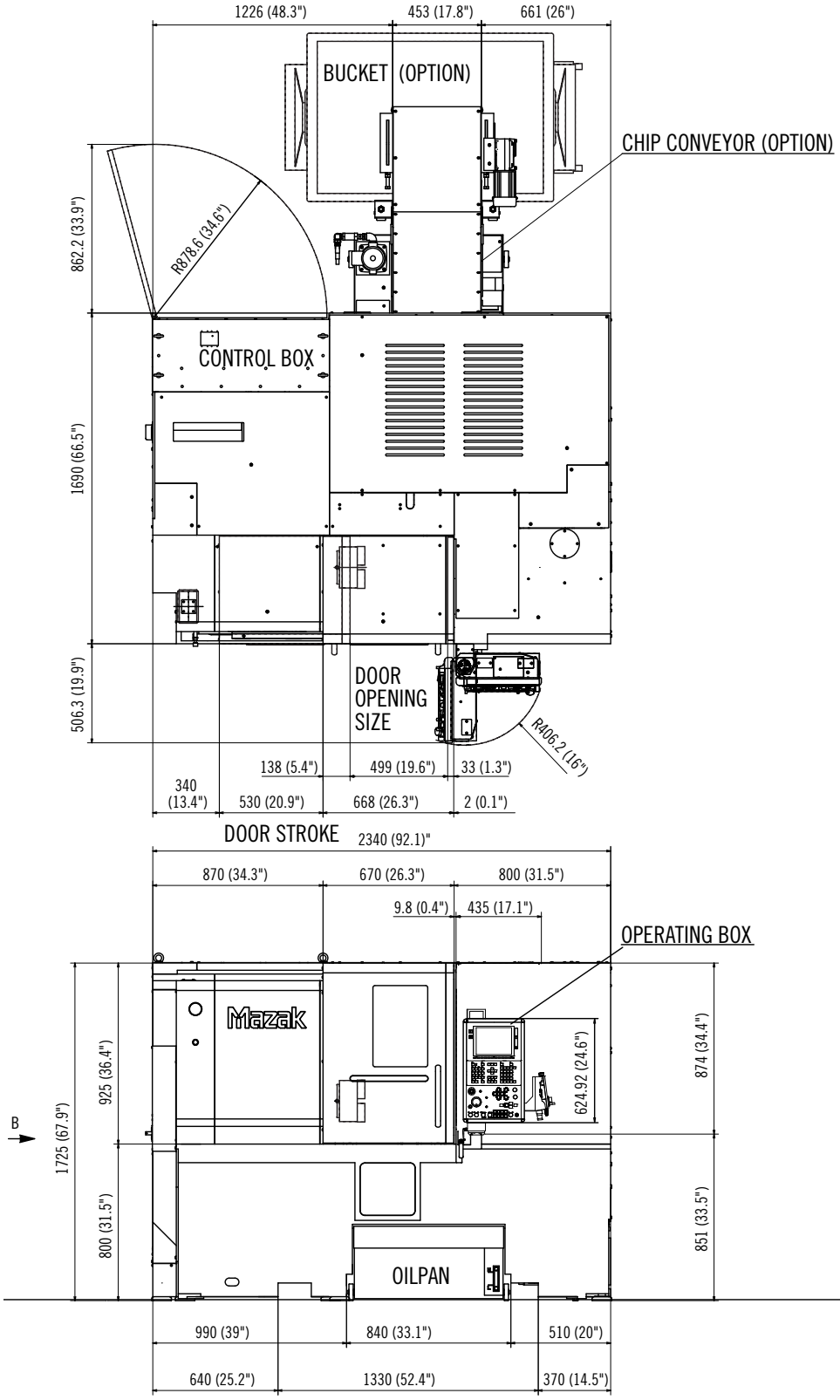


V-TYPE LONG NOSE MILLING HOLDER

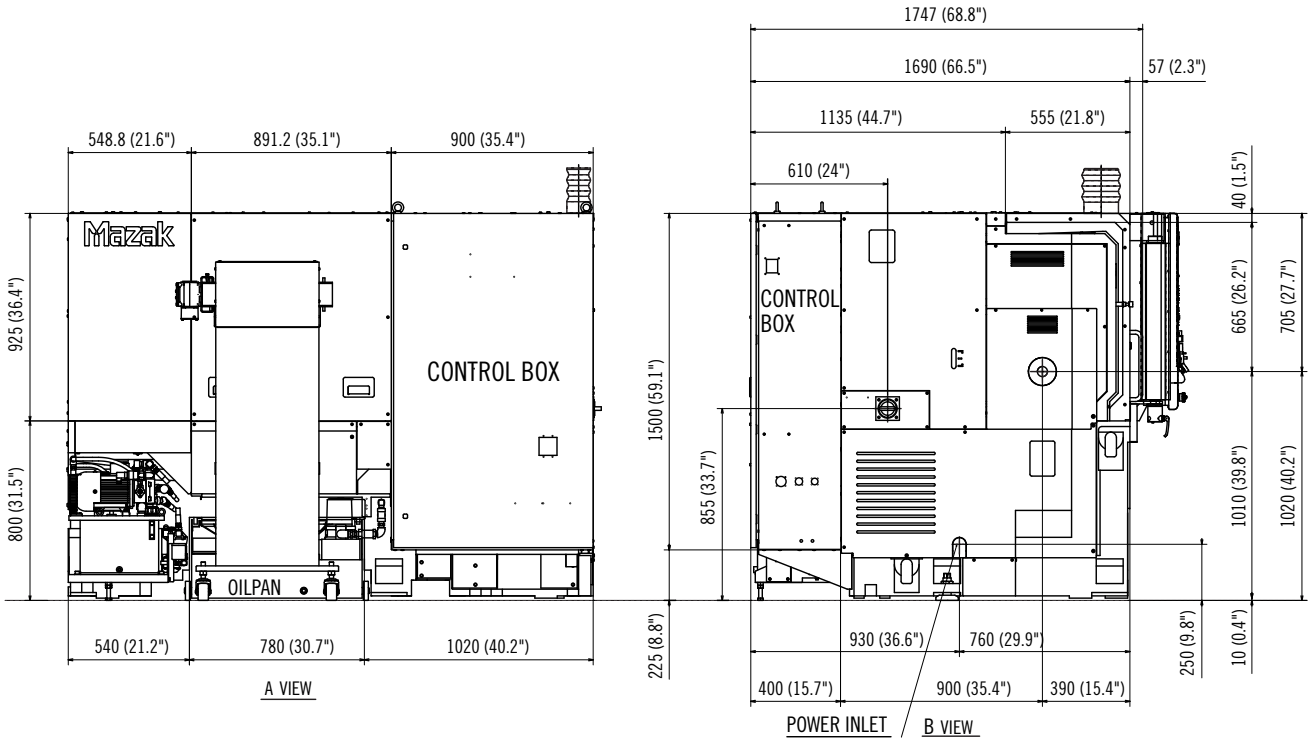


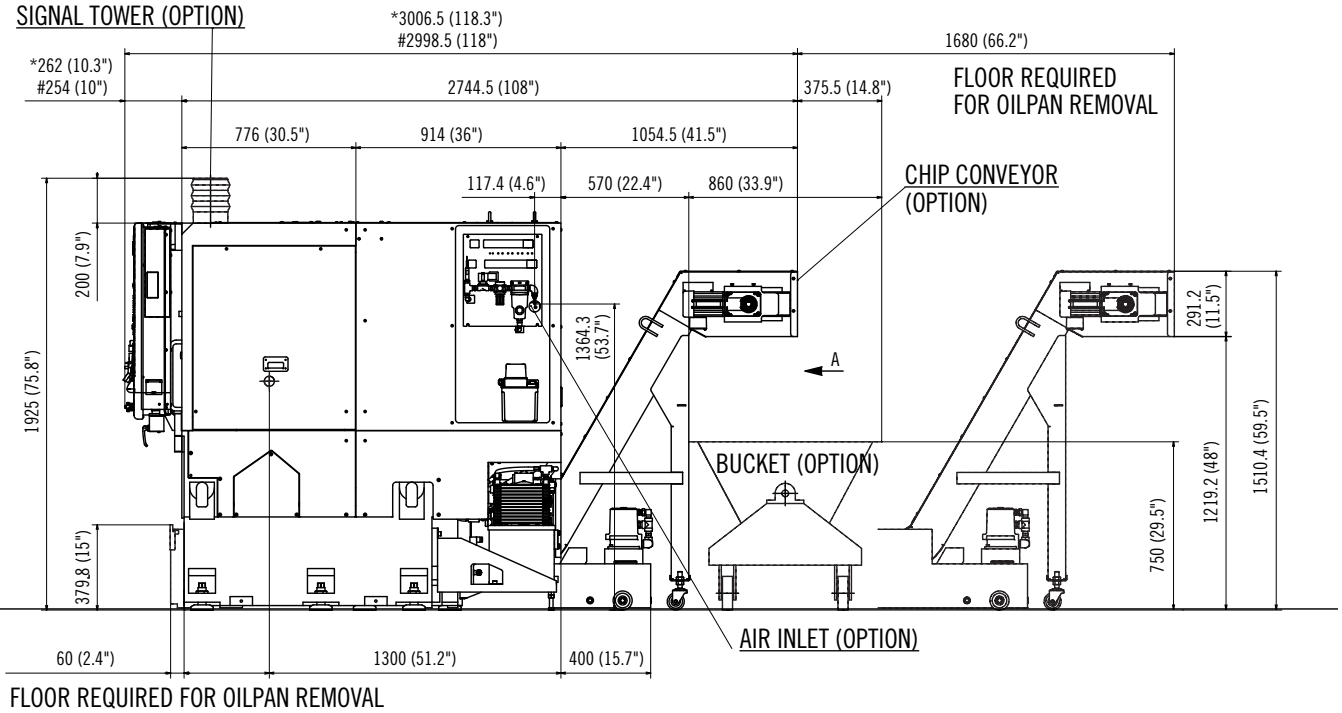
Metric available upon request.

EXTERNAL DIMENSIONS – REAR EXIT CONVEYOR (FOR REFERENCE ONLY)

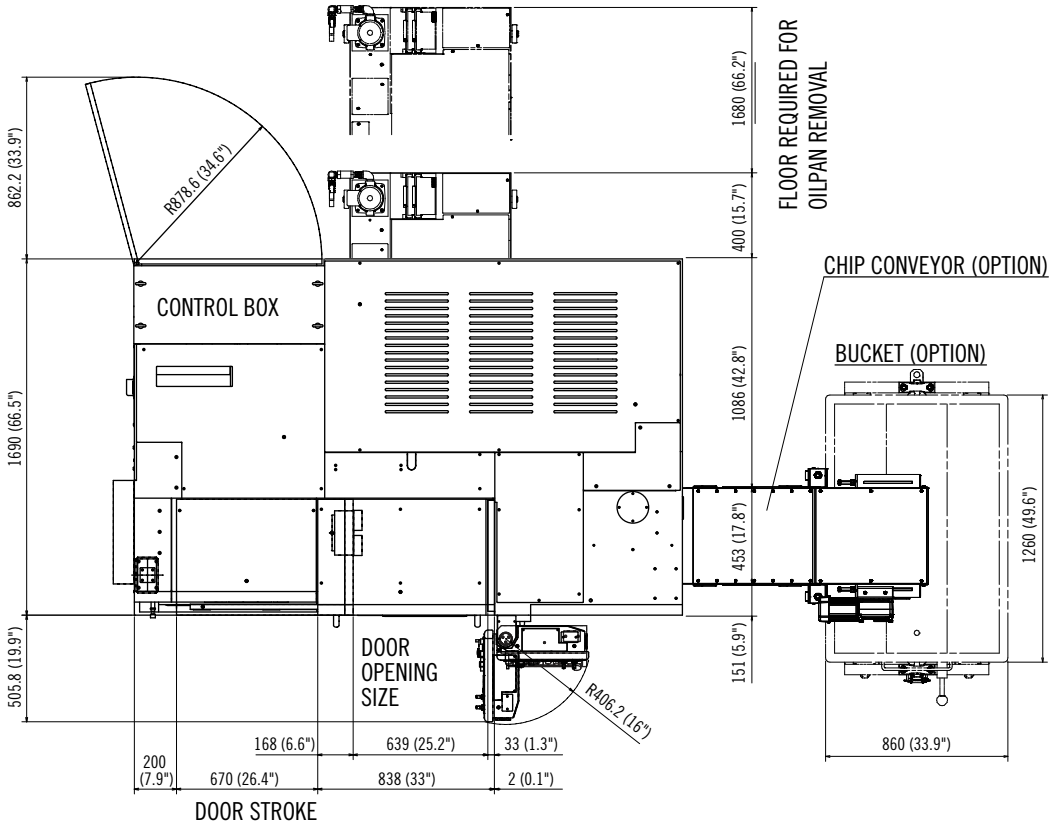


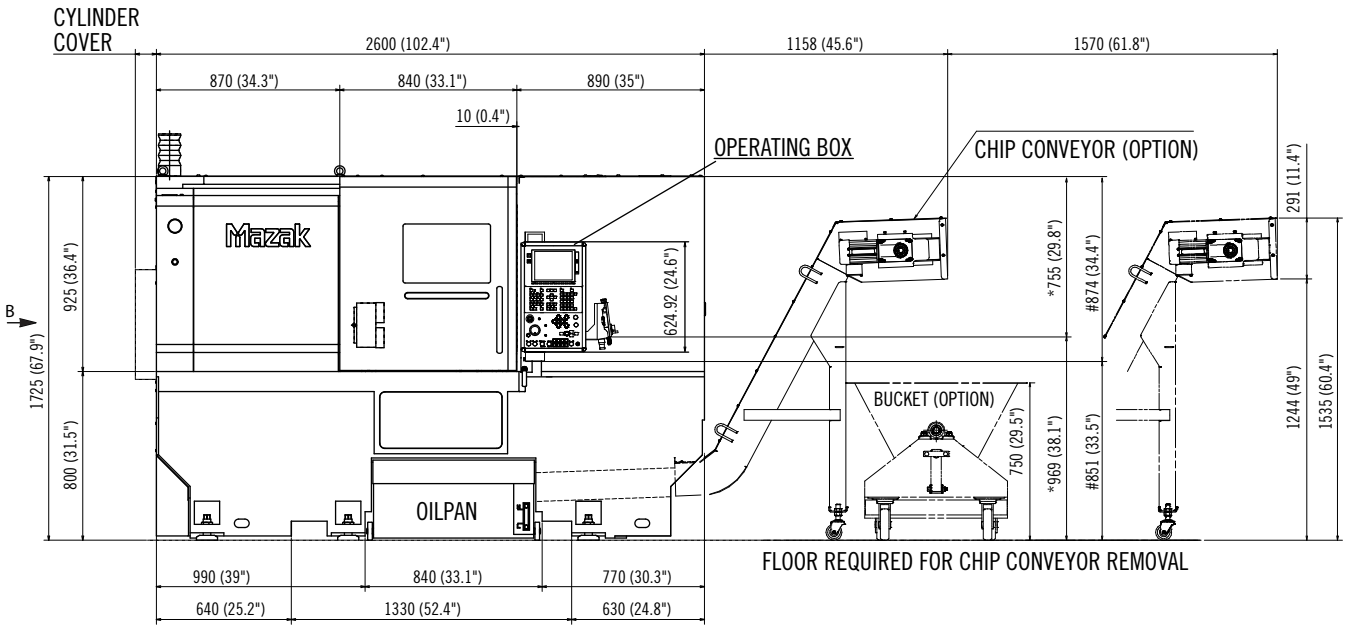
EXTERNAL DIMENSIONS – REAR EXIT CONVEYOR (FOR REFERENCE ONLY)



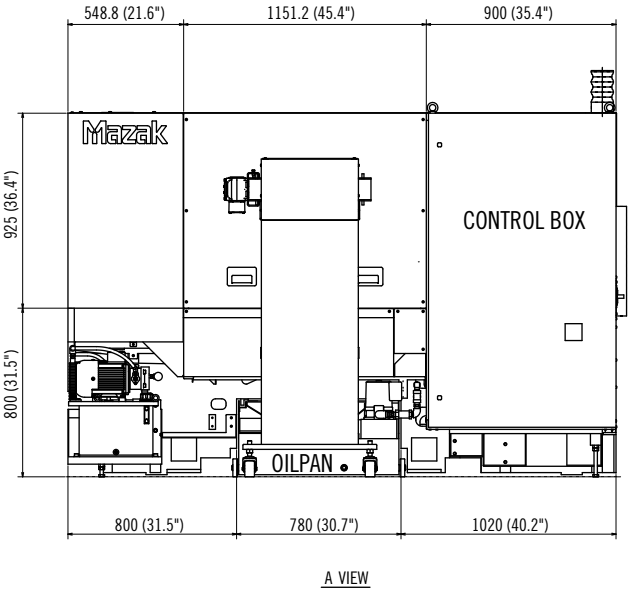


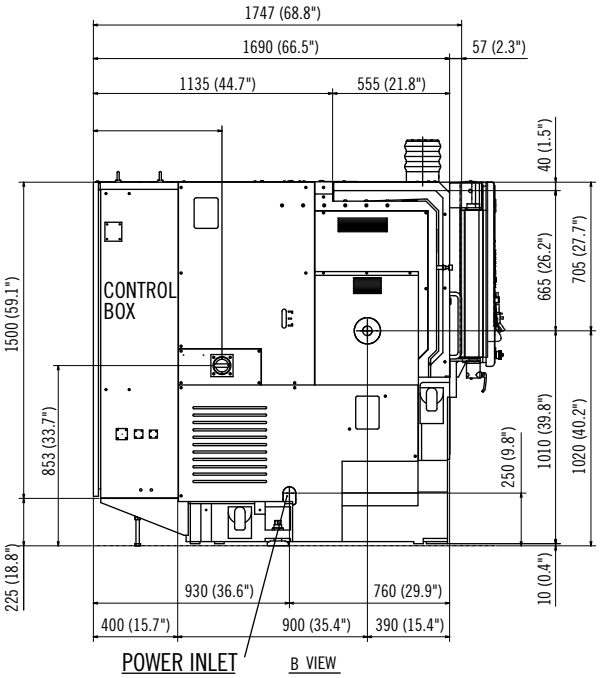
EXTERNAL DIMENSIONS – SIDE EXIT CONVEYOR (FOR REFERENCE ONLY)

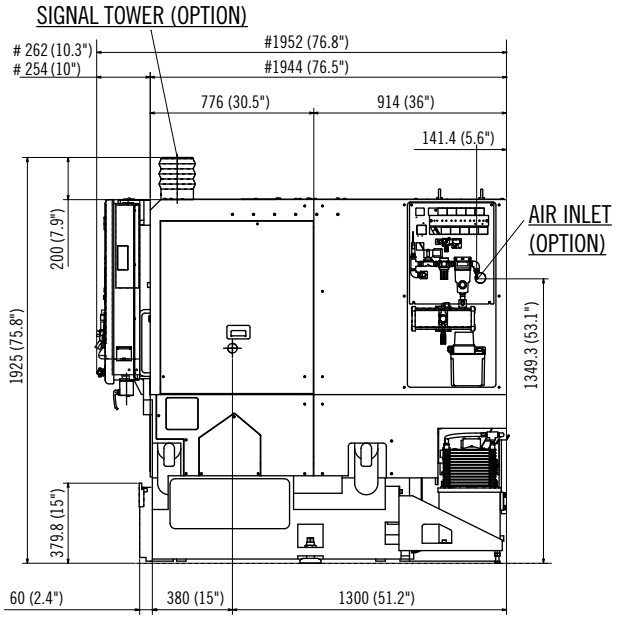




EXTERNAL DIMENSIONS – SIDE EXIT CONVEYOR (FOR REFERENCE ONLY)







FLOOR REQUIRED FOR OILPAN REMOVAL

MACHINE SPECIFICATIONS – QTU-200 SERIES

			QTU-200	QTU-200M	QTU-200MS
Bed length			500U	500U	500U
Capacity	Maximum swing	in (mm)	27.4 (695)		
	Recommended turning diameter	in (mm)	8.35 (212)		
	Maximum turning diameter	in (mm)	16.25 (410)	13.5 (340)	
	1st spindle chuck size	in	6/8		
	2nd spindle chuck size	in	N/A		5
	Bar working diameter	in (mm)	1.65 (42)		
Main spindle	Maximum speed	rpm	6,000		
	Spindle nose	ASA	JIS A2-6		
	Spindle through hole	in (mm)	2.4 (61)		
Second spindle	Maximum speed	rpm	N/A		6,000
	Spindle nose	FLAT	N/A		JIS A2-5
	Spindle through hole	in (mm)	N/A		2.4 (61)
Turret	Number of tools	–	12		
	OD tool size	in (mm)	1 (25)		
	Maximum boring bar size	in (mm)	1.5 (40)		
	Rotary drill	in (mm)	0.75 (20)		
	Rotary tap	–	M20		
	Rotary endmill	in (mm)	0.75 (20)		
	Turret indexing time (1 station swivel)	s	0.18	0.19	
	Maximum rotary tool speed	rpm	4,500 (Option: 6,000)		
Tailstock	Quill bore taper	MT	MT No. 5		N/A
	Quill travel	in (mm)	13.250 (340)		N/A
Feed axes	Travel (X axis)	in (mm)	8.5 (215)		
	Travel (Y axis)	in (mm)	N/A		
	Travel (Z axis)	in (mm)	24.5 (625)	23.75 (605)	
Feed rate	Rapid traverse rate (X axis)	ipm (m/min)	1,181 (30)		
	Rapid traverse rate (Y axis)	in (mm)	N/A		
	Rapid traverse rate (Z axis)	ipm (m/min)	1,417 (36)		
Motors	Main spindle motor power	hp (kW)	20 (40% ED)/15 (Cont.) [15 (40% ED)/11 (Cont.)]		
	Rotary tool motor power	hp (kW)	N/A	7.3 (5.5)	
Power source	Electric power supply (rated capacity)	kVA	27.8	27.7	27.5
Machine dimensions	Height	in (mm)	67.9 (1,725)		
	Width	in (mm)	66.5 (1,690)		
	Length	in (mm)	102.4 (2,600)		
	Weight	lbs (kg)	11,244 (5,100)	11,464 (5,200)	11,685 (5,300)

			QTU-200MY	QTU-200MSY
Bed length			500U	500U
Capacity	Maximum swing	in (mm)	27.4 (695)	
	Recommended turning diameter	in (mm)	8.35 (212)	
	Maximum turning diameter	in (mm)	13.5 (340)	
	1st spindle chuck size	in	6/8	
	2nd spindle chuck size	in	N/A	5
	Bar working diameter	in (mm)	1.65 (42)	
Main spindle	Maximum speed	rpm	6,000	
	Spindle nose	ASA	JIS A2-6	
	Spindle through hole	in (mm)	2.4 (61)	
Second spindle	Maximum speed	rpm	6,000	
	Spindle nose	FLAT	JIS A2-5	
	Spindle through hole	in (mm)	2.4 (61)	
Turret	Number of tools	–	12	
	OD tool size	in (mm)	1 (25)	
	Maximum boring bar size	in (mm)	1.5 (40)	
	Rotary drill	in (mm)	0.75 (20)	
	Rotary tap	–	M20	
	Rotary endmill	in (mm)	0.75 (20)	
	Turret indexing time (1 station swivel)	s	0.19	
	Maximum rotary tool speed	rpm	4,500 (Option: 6,000)	
Tailstock	Quill bore taper	MT	MT No. 5	N/A
	Quill travel	in (mm)	13.250 (340)	N/A
Feed axes	Travel (X axis)	in (mm)	8.5 (215)	
	Travel (Y axis)	in (mm)	4 (100)	
	Travel (Z axis)	in (mm)	23.75 (605)	
Feed rate	Rapid traverse rate (X axis)	ipm (m/min)	1,181 (30)	
	Rapid traverse rate (Y axis)	in (mm)	10 (394)	
	Rapid traverse rate (Z axis)	ipm (m/min)	1,417 (36)	
Motors	Main spindle motor power	hp (kW)	20 (40% ED)/15 (Cont.) [15 (40% ED)/11 (Cont.)]	
	Rotary tool motor power	hp (kW)	7.3 (5.5)	
Power source	Electric power supply (rated capacity)	kVA	29	28.5
Machine dimensions	Height	in (mm)	67.9 (1,725)	
	Width	in (mm)	66.5 (1,690)	
	Length	in (mm)	102.4 (2,600)	
	Weight	lbs (kg)	11,905 (5,400)	12,125 (5,500)

MACHINE SPECIFICATIONS – QTU-250 SERIES

			QTU-250	QTU-250M	QTU-250MS
Bed length			500U	500U	500U
Capacity	Maximum swing	in (mm)	27.4 (695)		
	Recommended turning diameter	in (mm)	8.35 (212)		
	Maximum turning diameter	in (mm)	16.25 (410)	13.5 (340)	
	1st spindle chuck size	in	8/10		
	2nd spindle chuck size	in	N/A		6
	Bar working diameter	in (mm)	2 (51)		
Main spindle	Maximum speed	rpm	4,500		
	Spindle nose	ASA	JIS A2-6		
	Spindle through hole	in (mm)	3 (76)		
Second spindle	Maximum speed	rpm	N/A		6,000
	Spindle nose	FLAT	N/A		JIS A2-5
	Spindle through hole	in (mm)	N/A		2.4 (61)
Turret	Number of tools	–	12		
	OD tool size	in (mm)	1 (25)		
	Maximum boring bar size	in (mm)	1.5 (40)		
	Rotary drill	in (mm)	0.75 (20)		
	Rotary tap	–	M20		
	Rotary endmill	in (mm)	0.75 (20)		
	Turret indexing time (1 station swivel)	s	0.18	0.19	
	Maximum rotary tool speed	rpm	4,500 (Option: 6,000)		
Tailstock	Quill bore taper	MT	MT No. 5		N/A
	Quill travel	in (mm)	13.250 (340)		N/A
Feed axes	Travel (X axis)	in (mm)	8.5 (215)		
	Travel (Y axis)	in (mm)	N/A		
	Travel (Z axis)	in (mm)	25 (635)	23.75 (605)	
Feed rate	Rapid traverse rate (X axis)	ipm (m/min)	1,181 (30)		
	Rapid traverse rate (Y axis)	in (mm)	N/A		
	Rapid traverse rate (Z axis)	ipm (m/min)	1,417 (36)		
Motors	Main spindle motor power	hp (kW)	20 (40% ED)/15 (Cont.) [15 (40% ED)/11 (Cont.)]		
	Rotary tool motor power	hp (kW)	N/A	7.3 (5.5)	
Power source	Electric power supply (rated capacity)	kVA	27.3	28.5	27.4
Machine dimensions	Height	in (mm)	67.9 (1,725)		
	Width	in (mm)	66.5 (1,680)		
	Length	in (mm)	104.3 (2,650)		
	Weight	lbs (kg)	11,310 (5,130)	11,510 (5,220)	11,860 (5,370)

			QTU-250MY	QTU-250MSY
Bed length			500U	500U
Capacity	Maximum swing	in (mm)	27.4 (695)	
	Recommended turning diameter	in (mm)	8.35 (212)	
	Maximum turning diameter	in (mm)	13.5 (340)	
	1st spindle chuck size	in	8/10	
	2nd spindle chuck size	in	N/A	6
	Bar working diameter	in (mm)	2 (51)	
Main spindle	Maximum speed	rpm	4,500	
	Spindle nose	ASA	JIS A2-6	
	Spindle through hole	in (mm)	3 (76)	
Second spindle	Maximum speed	rpm	N/A	6,000
	Spindle nose	FLAT	N/A	JIS A2-5
	Spindle through hole	in (mm)	N/A	2.4 (61)
Turret	Number of tools	–	12	
	OD tool size	in (mm)	1 (25)	
	Maximum boring bar size	in (mm)	1.5 (40)	
	Rotary drill	in (mm)	0.75 (20)	
	Rotary tap	–	M20	
	Rotary endmill	in (mm)	0.75 (20)	
	Turret indexing time (1 station swivel)	s	0.19	
	Maximum rotary tool speed	rpm	4,500 (Option: 6,000)	
Tailstock	Quill bore taper	MT	MT No. 5	N/A
	Quill travel	in (mm)	13.250 (340)	N/A
Feed axes	Travel (X axis)	in (mm)	8.5 (215)	
	Travel (Y axis)	in (mm)	4 (100)	
	Travel (Z axis)	in (mm)	23.75 (605)	
Feed rate	Rapid traverse rate (X axis)	ipm (m/min)	1,181 (30)	
	Rapid traverse rate (Y axis)	in (mm)	10 (394)	
	Rapid traverse rate (Z axis)	ipm (m/min)	1,417 (36)	
Motors	Main spindle motor power	hp (kW)	20 (40% ED)/15 (Cont.) [15 (40% ED)/11 (Cont.)]	
	Rotary tool motor power	hp (kW)	7.3 (5.5)	
Power source	Electric power supply (rated capacity)	kVA	28.3	28.4
Machine dimensions	Height	in (mm)	67.9 (1,725)	
	Width	in (mm)	66.5 (1,680)	
	Length	in (mm)	104.3 (2,650)	
	Weight	lbs (kg)	11,905 (5,400)	12,260 (5,560)

MACHINE SPECIFICATIONS – QTU-350 SERIES

			QTU-350	QTU-350M	QTU-350MS	QTU-350MY	QTU-350MSY
Bed length			500U	500U	500U	500U	500U
Capacity	Maximum swing	in (mm)	27.4 (695)				
	Recommended turning diameter	in (mm)	10 (255)				
	Maximum turning diameter	in (mm)	16.25 (410)	13.5 (340)			
	1st spindle chuck size	in	10/12				
	2nd spindle chuck size	in	N/A		6	N/A	6
	Bar working diameter	in (mm)	3.03 (77)				
Main spindle	Maximum speed	rpm	3,500				
	Spindle nose	ASA	JIS A2-8				
	Spindle through hole	in (mm)	3.5 (91)				
Second spindle	Maximum speed	rpm	N/A		6,000	N/A	6,000
	Spindle nose	FLAT	N/A		JIS A2-5	N/A	JIS A2-5
	Spindle through hole	in (mm)	N/A		2.4 (61)	N/A	2.4 (61)
Turret	Number of tools	–	12				
	OD tool size	in (mm)	1 (25)				
	Maximum boring bar size	in (mm)	1.5 (40)				
	Rotary drill	in (mm)	0.75 (20)				
	Rotary tap	–	M20				
	Rotary endmill	in (mm)	0.75 (20)				
	Turret indexing time (1 station swivel)	s	0.18	0.19			
	Maximum rotary tool speed	rpm	4,500 (Option: 6,000)				
Tailstock	Quill bore taper	MT	MT No. 5		N/A	MT No. 5	N/A
	Quill travel	in (mm)	13.250 (340)		N/A	13.250 (340)	N/A
Feed axes	Travel (X axis)	in (mm)	8.5 (215)				
	Travel (Y axis)	in (mm)	N/A			+/- 2 (50)	
	Travel (Z axis)	in (mm)	25 (635)	23.75 (605)			
Feed rate	Rapid traverse rate (X axis)	ipm (m/min)	1,181 (30)				
	Rapid traverse rate (Y axis)	in (mm)	N/A			10 (394)	
	Rapid traverse rate (Z axis)	ipm (m/min)	1,417 (36)				
Motors	Main spindle motor power	hp (kW)	20 (40% ED)/15 (Cont.) [15 (40% ED)/11 (Cont.)]				
	Rotary tool motor power	hp (kW)	N/A	Standard: 7.3 (5.5), Option: 10 (7.5)			
Power source	Electric power supply (rated capacity)	kVA	27.3	28.5	27.4	28.3	28.4
Machine dimensions	Height	in (mm)	67.9 (1,725)				
	Width	in (mm)	66.5 (1,690)				
	Length	in (mm)	106.3 (2,700)				
	Weight	lbs (kg)	11,685 (5,300)	11,890 (5,390)	12,200 (5,540)	12,324 (5,590)	12,640 (5,730)

			QTU-350	QTU-350M	QTU-350MY
Bed length			1000U	1000U	1000U
Capacity	Maximum swing	in (mm)	27.4 (695)		
	Recommended turning diameter	in (mm)	10 (255)		
	Maximum turning diameter	in (mm)	16.25 (410)	13.5 (340)	
	1st spindle chuck size	in	10/12		
	2nd spindle chuck size	in	N/A		
	Bar working diameter	in (mm)	3.03 (77)		
Main spindle	Maximum speed	rpm	3,500		
	Spindle nose	ASA	JIS A2-8		
	Spindle through hole	in (mm)	3.5 (91)		
Second spindle	Maximum speed	rpm	N/A	6,000	
	Spindle nose	FLAT	N/A	JIS A2-5	
	Spindle through hole	in (mm)	N/A	2.4 (61)	
Turret	Number of tools	–	12		
	OD tool size	in (mm)	1 (25)		
	Maximum boring bar size	in (mm)	1.5 (40)		
	Rotary drill	in (mm)	0.75 (20)		
	Rotary tap	–	M20		
	Rotary endmill	in (mm)	0.75 (20)		
	Turret indexing time (1 station swivel)	s	0.18	0.19	
	Maximum rotary tool speed	rpm	4,500 (Option: 6,000)		
Tailstock	Quill bore taper	MT	MT No. 5		
	Quill travel	in (mm)	22.125 (565)		
Feed axes	Travel (X axis)	in (mm)	8.5 (215)		
	Travel (Y axis)	in (mm)	N/A		+/- 2 (50)
	Travel (Z axis)	in (mm)	46.25 (1,175)	45.5 (1,155)	
Feed rate	Rapid traverse rate (X axis)	ipm (m/min)	1,181 (30)		
	Rapid traverse rate (Y axis)	in (mm)	N/A		10 (394)
	Rapid traverse rate (Z axis)	ipm (m/min)	1,181 (30)		
Motors	Main spindle motor power	hp (kW)	20 (40% ED)/15 (Cont.) [15 (40% ED)/11 (Cont.)]		
	Rotary tool motor power	hp (kW)	N/A	Standard: 5 (3.7), Option: 9 (7.3)	
Power source	Electric power supply (rated capacity)	kVA	27.3	28.5	28.3
Machine dimensions	Height	in (mm)	72.4 (1,840)		
	Width	in (mm)	70.1 (1,780)		
	Length	in (mm)	137.8 (3,500)		
	Weight	lbs (kg)	13,867 (6,290)	14,506 (6,580)	14,947 (6,780)

SPINDLE AND UNIT REBUILD

Spindle rebuild

Mazak's spindle exchange and rebuild program provides the option to purchase a brand new spindle, have an existing spindle repaired or acquire a Mazak rebuilt spindle. Mazak also offers high quality new and remanufactured index tables, ATC shifters and milling turrets.

Benefits of Mazak's spindle and unit rebuild service include:

- More than 900 different spindle variations for all types of turning centers, vertical and horizontal machining centers as well as Multi-Tasking machines
- Over 300 available rebuilt spindles for a cost-effective spindle solution delivered in as little as two or three days
- Spindle repairs are processed in a clean room environment and overseen by quality control teams with ISO: 9001:2008 certification
- Spindle repairs/rebuilds occur within five days of receipt and include 12 hours of test stand runoff
- A seven-month parts and labor warranty on rebuilt spindles with Mazak installation
- Free technical support regarding replacement options and processes

SPINDLE REPAIR

BEFORE

AFTER

ENVIRONMENTALLY FRIENDLY

ENVIRONMENTAL CONSIDERATIONS

The environment and our impact on our natural surroundings have always been important concerns of Mazak. This is shown by the fact that all factories where Mazak machine tools are produced are ISO 14001 certified, an international standard confirming that the operation of our production facilities do not adversely affect air, water or land.

The QTU Series utilizes a high efficiency lubrication system that has reduced oil consumption more than 90% versus comparable systems. High efficiency LED work lights are used for illumination of the machining area. These lights and the optional chip conveyor are automatically shut off after a predetermined time period for lower power consumption when the machine is in the stand-by state.

QTU-200

eco-friendly

Power Consumption Display (Optional)

The electrical power meter displays the machine's accumulated electrical power consumption.

Personnel Sensor

The work lights and CNC display are automatically shut off after a predetermined time period for lower power consumption when the operator is not near the machine. When the personnel sensor has detected that the operator has returned to the machine, these lights are automatically turned on.

Chip Conveyor/Automatic Power Off (Optional)

The chip conveyor is automatically shut off after a predetermined time period for lower power consumption when the machine is in the stand-by state.

MAZAK TECHNOLOGY + TECHNICAL CENTERS

MAZAK TECHNOLOGY AND TECHNICAL CENTERS

As a key component of Mazak's comprehensive customer support, its network of eight Technology Centers and a Technical Center strategically located across North America put component machining demonstrations, experienced applications engineers and training in close proximity to customers. These centers also provide a channel for customer input to Mazak manufacturing for the development of new machine tool technology.

Technology and Technical Centers offer advanced application support, education and training, new technology and manufacturing systems along with on-site training and technology seminars.

Click here for more information on Mazak Technology Centers.

Advanced application support

- Expert applications engineers help customers optimize part-production processes and create effective manufacturing solutions
- Mazak-certified cutting tool, workholding and automation partners collaborate to develop optimized turnkey manufacturing solutions
- Test cuts of customer parts run on the latest, most advanced machine tools
- Secure applications development and complete design privacy of each customer's individual manufacturing system

Education and training

- Education, training and seminar events in cooperation with Mazak technology partners
- Free access to the most advanced machine tools
- Industry-focused education

New technology and manufacturing systems

- The latest, most advanced manufacturing systems that can optimize the processing of industry-specific components
- Productivity experts help customers select the best new machine tool technology for their particular businesses

On-Site Training and Technology Seminars

- Hands-on applications and operator development courses
- Technical seminars held in conjunction with our Value Inspired Partners (VIPs)
- Regularly scheduled market-focused events that provide valuable industry insight

NATIONAL TECHNOLOGY CENTER
8025 Production Drive
Florence, Kentucky 41042
(800) 331-9151

MIDWEST TECHNOLOGY CENTER
300 East Commerce Drive
Schaumburg, Illinois 60173
(847) 885-8311

SOUTHWEST TECHNOLOGY CENTER
10950 Greenbend Blvd.
Houston, Texas 77067
(281) 931-7770

SOUTHEAST TECHNOLOGY CENTER
1075 Northbrook Parkway
Suwanee, Georgia 30024
(678) 985-4800

WESTERN TECHNOLOGY CENTER
1333 West 190th Street
Gardena, California 90248
(310) 327-7172

NORTHEAST TECHNOLOGY CENTER
700 Old County Circle
Windsor Locks, Connecticut 06096
(860) 292-4400

DALLAS TECHNICAL CENTER
935 South Kimball, Suite 151,
Southlake, Texas 76092
(817) 329-6290

CANADA TECHNOLOGY CENTRE
50 Commerce Court
Cambridge, Ontario N3C 4P7
(519) 658-2021

MEXICO TECHNOLOGY CENTER
Spectrum 100 Parque Industrial Finsa
Apodaca Nuevo León 66600
+52-818-221-0910

Click here for more information on Mazak Technology Centers.

FINANCING

MAZAK CREDIT GROUP

As a wholly owned subsidiary of Mazak Corporation, MCC Credit Group is the preferred one-stop choice for manufacturers throughout the United States and Canada who want fast, hassle-free, low-cost financing on a QTU Series machine or any other piece of Mazak equipment. With a complete knowledge of Mazak's product portfolio, MCC Credit Group provides factory terms that can work to customer advantages. Plus, its direct access to machine specifications, delivery schedules and installation dates eliminates any additional paperwork or a delay in the approval or shipment process.

MCC Credit Group

Advantages of working with MCC Credit Group:

- Approval of up to $350,000 with a simple online credit application (subject to credit approval)
- Quick turnarounds on highly competitive leases and loans with no blanket liens
- Waive security deposits
- Apply machine deposits directly toward advanced rents, fees or monthly rental payments
- Offer three to five years financing on all Mazak equipment
- Preserve bank credit lines for working capital and your company's growth
- Structure true leases for off-balance sheet accounting treatment and maximum cash flow

Click here for more information on financing options.

RESOURCES AND LINKS

NORTH AMERICAN SERVICE

North American Customer Service Manager
Greg Westrick
859-342-1892
gwestrick@mazakcorp.com

Assistant North American Service Manager
Hiroshi Ito
859-342-1466
hito@mazakcorp.com

North American Parts Manager
Steve Trammel
859-342-1790
strammel@mazakcorp.com

Parts Order Entry
Toni Abdon
888-462-9251
pparts@mazakcorp.com

Training Supervisor
Roy Gentry
859-342-1854
rgentry@mazakcorp.com

REGIONAL LOCATIONS

Atlanta
Steve Carbonneau
678-985-4800
800-505-1964
scarbonneau@mazakcorp.com

Chicago
Gary Summers
847-885-8311
800-677-8311
gsummers@mazakcorp.com

Florence, Kentucky
Martin Wilber
859-342-1561
mwilber@mazakcorp.com

Hartford
Kurt Petitti
860-292-4400
800-436-8900
kpetitti@mazakcorp.com

Houston
Jim Jackson
281-931-7770
jjackson@mazakcorp.com

Los Angeles
Carlos Santos
310-327-7172
800-511-8927
csantos@mazakcorp.com

Canada
Michael Cummings
519-230-3233
800-668-5449
mcummings@mazakcorp.com

Mexico
Gustavo Alarcon
011 52 818 221 0910
galarcon@mazakcorp.com

AFTER HOURS SERVICE

800-231-1456

AFTER HOURS PART SUPPORT

Click here to register for after hours parts support.

QTU SERIES

Mazak

www.MazakUSA.com

MAZAK CORPORATION
NORTH AMERICAN MANUFACTURING HEADQUARTERS
8025 Production Drive, Florence, KY 41042
Tel: (859) 342-1700 Fax: (859) 342-1865

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