



















QUICK TURN SERIES

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



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QUICK TURN SERIES

SPEED, POWER AND PRECISION

Featuring several technological innovations, the QUICK TURN Series of 2-axis and Multi-Tasking CNC Turning Centers delivers speed, power and precision for exceptional performance in virtually any turning operation.

The Kentucky-built series, offered in many different configurations, has been trusted by manufacturers around the world since 1981. The machines provide unmatched productivity and reduced cycle times across a wide range of workpiece geometries — from the very simple to the highly complex — as well as small to large diameter shaft-type parts in short and long lengths.



MACHINE CONFIGURATIONS:

- QUICK TURN 200
- QUICK TURN 200M
- QUICK TURN 200MS
- QUICK TURN 200MY
- QUICK TURN 200MSY
- QUICK TURN 250
- QUICK TURN 250M
- QUICK TURN 250MS
- QUICK TURN 250MY
- QUICK TURN 250MSY
- QUICK TURN 350
- QUICK TURN 350M
- QUICK TURN 350MS
- QUICK TURN 350MY
- QUICK TURN 350MSY

 $\mathbf{M} = \mathbf{upper} \mathbf{turret} \mathbf{with} \mathbf{rotary} \mathbf{tool} \mathbf{milling}$

- **S** = second spindle
- $\mathbf{Y} = \mathbf{Y}$ -axis capability



OPTIMUM PLUS SERVICE AND SUPPORT

MAZAK OPTIMUM PLUS

To maximize machine tool investments, the <u>Mazak Optimum Plus</u> 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

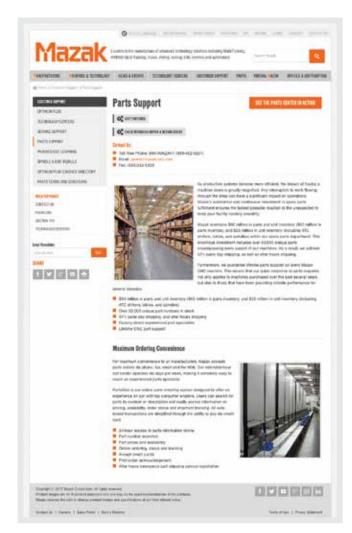
Technical support — machine and CNC

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)





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.

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.

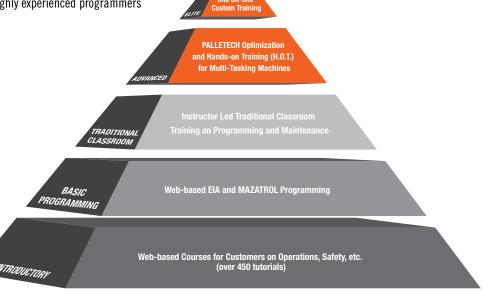
<u>Mazak's Pyramid of Learning</u> is a visual representation of its approach to training. The lower levels at the base of the pyramid represent basic skills education for new machinists, while the upper levels signify advanced training for highly experienced programmers and operators.

Pyramid of Learning levels include:

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



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



TOP 10 ADVANTAGES OF THE QUICK TURN SERIES

QUICK TURN Series machines feature several new and innovative technologies to help job shops boost speed, performance and precision in a wide variety of metalworking applications. The series brings advanced technology, value and productivity to part-processing operations.

- 1. Wide range of machine configurations for 2-axis machining or Multi-Tasking capabilities.
- **2. Direct-drive turrets** deliver higher speeds without torque reductions for increased productivity.
- 3. Advanced integral (built in) spindle motor/headstock technology ensures reliable, maintenance-free high performance.
- Optional second turning spindle adds DONE IN ONE® part processing.
- Mazak MX Hybrid Roller Guide System provides durability, reliability and long-term accuracy.
- Mazak MAZATROL Smooth Controls offer fast and easy EIA/ISO and conversational programming.
- CNC programmable tailstocks for simple, precise and automatic control of the Z-axis directional movement and thrust force settings.
- 8. Easy-to-access maintenance panel and color-coded cables reduce maintenance time.
- 9. Extremely rigid base built for stability and vibration dampening.
- 10. Optional rear mounted chucks give secure, stable support and accurate workholding of long bar and pipe workpieces.



QUICK TURN 250MY



MACHINE DESIGN

Several structural characteristics make QUICK TURN Series machines capable of delivering exceptional performance for a wide range of demanding workpiece applications — from small batch to high volume.

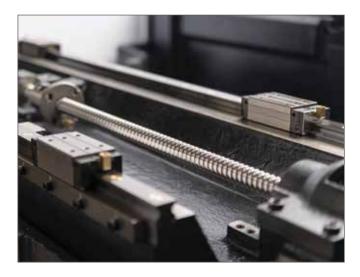
BED

A one-piece, highly rigid bed design with low center of gravity provides extreme stability for precise machining even during the most aggressive operations. The QUICK TURN series features machines with bed lengths up to 120" to accommodate long, large parts.

ROLLER GUIDE SYSTEM

The Mazak MX Hybrid Roller Guide System featured on the QUICK TURN machines allows for faster speeds and boosts accuracy, leading to a comprehensive improvement in overall machine productivity and profitability. When compared with traditional ball guides and boxways, the advantages of the Mazak MX Hybrid Roller Guide System are clear.

- More surface contact for large load capacities and better dampening
- Better distribution of load points via an X-design that allows load to be applied to four directions
- Higher positioning accuracy than boxways due to no stick and slip
- Faster and greener than boxways with nearly twice the rapid traverse rate and less contamination in machine coolant system



ADVANCED HEADSTOCK AND SPINDLES

POWER AND RIGIDITY

Advanced integral spindle/motor headstock, with spindle cooling capabilities deliver increased spindle rigidity for heavy-duty machining and high-speed, high-torque performance. The design uses no belts or pulleys, resulting in zero backlash, and powerful variable-speed AC inverter motors directly drive headstock spindles.

Headstock cooling systems further ensure stable continuous precision machining by maintaining constant headstock temperatures.

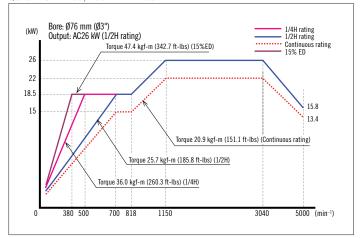
FAST AND EFFICIENT MILLING

Main spindles feature through-bore sizes of 3.0" (76 mm), 3.6" (91 mm) and 4.4" (112 mm). Through-hole chuck packages come standard on all QUICK TURN machines.

Rated at 7.5 hp (5.5 kW) and 10.0 hp (7.5 kW) with maximum speeds between 4,000 rpm and 6,000 rpm, turret AC spindle motors on various QUICK TURN Series models drive rotary tools with power and speeds for fast and efficient metal removal and for Y-axis off-center operations.

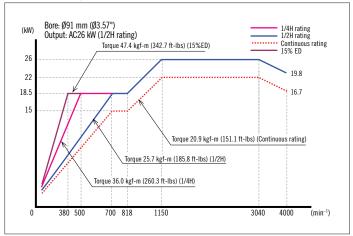
Machine spindles for C-axis contouring in 0.0001-degree increments for accurate part positioning and contouring capability further enhance part processing versatility.

QUICK TURN 200, 200M AND 200MY



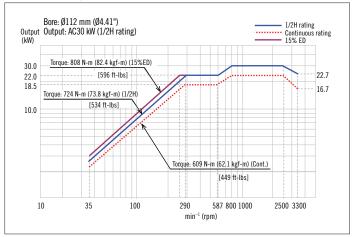
(FOR REFERENCE ONLY)

QUICK TURN 250, 250M AND 250MY



(FOR REFERENCE ONLY)

QUICK TURN 350, 350M AND 350MY



DIRECT DRIVE TURRETS

QUICK TURN Series machines feature turrets with integral mill motors that deliver higher speed without torque reductions for increased productivity and the virtual elimination of stick-slip as well as vibration.

TOOLING CONFIGURATIONS

QUICK TURN machines are available with turrets in either VDI or bolt-on tooling configurations.

The non-lift, servo driven 12-position dodecagonal drum turrets for VDI-type tool holders shorten part processing cycle times through Multi-Tasking functionality achieved with the addition of live milling capability in X/Y positioning. The turret allows static and rotary tools with VDI-type shanks to be mounted in any position. And unlike other designs, the Mazak VDI turret makes it possible to change tools, together with tool holders, in one operation.



2-AXIS TURRET



MULTI-TASKING TURRET

CNC PROGRAMMABLE TAILSTOCKS

PRECISE SUPPORT

CNC programmable tailstocks provide simple, precise and automatic control of the Z-axis directional movement and thrust force settings. The electronic AC servomotor and ballscrew-driven tailstocks generate consistent holding pressure to support long, heavy workpieces for consistent high-accuracy turning.

The standard tailstock design provides optimum clearance when using large steady rests. Equipped with built-in centers, the tailstocks provide fast and safe movement with high and low speed capabilities. An optional drilling tailstock is also available.



NC SERVO-DRIVEN TAILSTOCK



X, Y AND Z AXIS

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

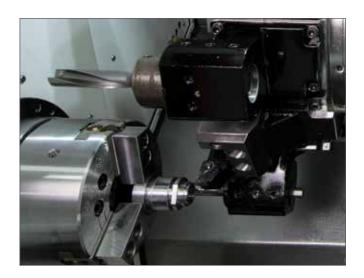
X- AND Z-AXIS POSITIONING

For desired machine motion, the X, Y and Z axes are driven by AC servomotors. 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. This results in a Y-axis stroke of 6.0" (153 mm) or +/- 3.0" from the center point on QUICK TURN 350 models and 4.0" (101 mm) or +/- 2.0" from the center point on QUICK TURN 200 and 250 models.

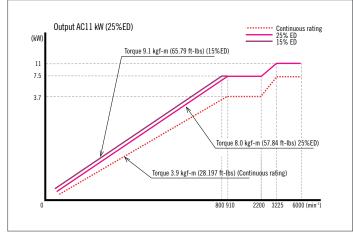
The addition of Y-axis tandem tooling takes advantage of the Y-axis shift to create multiple tool positions at each pocket, which increases the capacity of tooling on the turret.



SECOND SPINDLE

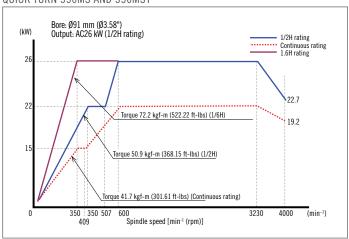
A second turning spindle (S) adds <u>DONE IN ONE</u>® part processing to QUICK TURN Series machines. The spindle positions in 0.0001-degree increments for unparalleled accurate part positioning and through spindle synchronization with the main spindle, as well as for three dimensional contouring, complex and prismatic machining.

QUICK TURN 200MS, 200MSY, 250MS AND 250MSY



(FOR REFERENCE ONLY)

QUICK TURN 350MS AND 350MSY



OPTIONAL EQUIPMENT

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

- Air chuck packages to accommodate full spindle through-hole size range
- Automatic chuck jaw operation for M-code controlled opening and closing
- Coolant temperature control to prevent thermal effects on machining accuracy
- High-power coolant maximizes chip evacuation and contributes to longer cutting tool life
- Additional headstock coolant nozzle in upper portion of machining area to minimize heat generated and remove chips
- Turret air blast keeps tool positions clear of chips and debris
- Chip conveyor designs for a wide variety of material types/chip shapes
- Overload detection monitors spindle motors and servomotors to protect tool life and unmanned operations
- Mist collector helps reduce maintenance costs and ensures a clean, safe work environment
- Automatic power breaker on/off by breaker trip shuts off power after machining has stopped
- Automatic power control by calendar timer turns machine on and runs a warm-up cycle according to a pre-set schedule selected by the operator
- Machine status indicator provides instant alerts of machine status
- Automatic front door open/close for M-code controlled opening and closing
- Workpiece measurement function uses sensor unit to automatically measure workpiece diameter and other surface features



CHIP CONVEYOR



MIST COLLECTOR

FAST, EASY AND EFFICIENT PROGRAMMING

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

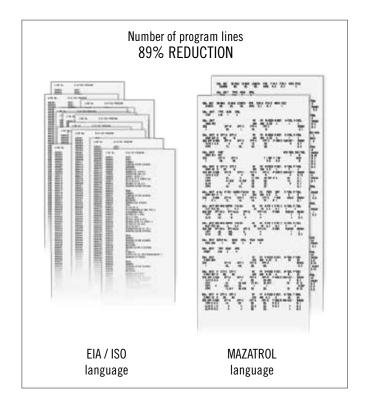
EIA/ISO COMPATIBILITY STANDARD

MAZATROL G-codes are the same as those used in conventional EIA CNC machines. This allows QUICK TURN 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 QUICK TURN 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.





PROCESS HOME SCREENS

Innovative touch operation of the MAZATROL SMOOTH CNC streamlines data entry and minimizes the number of displays to reduce programming times for QUICK TURN 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 SmoothG CONTROL

The MAZATROL SmoothG CNC optimizes programming and makes it easy to generate programs for processing complex parts through off-centerline machining as well as angled drilling, milling and tapping. 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.

Machine models:

- **QUICK TURN 200**
- QUICK TURN 200M
- QUICK TURN 200MS
- QUICK TURN 200MY
- QUICK TURN 200MSY
- **QUICK TURN 250**
- **QUICK TURN 250M**
- QUICK TURN 250MS
- **QUICK TURN 250MY**
- QUICK TURN 250MSY

QUICK TURN 350

- QUICK TURN 350M
- QUICK TURN 350MS
- **QUICK TURN 350MY**
- QUICK TURN 350MSY

FEATURES AND FUNCTIONS OF THE MAZATROL SmoothG **CONTROL INCLUDE:**

- Virtual Machining allows operators to perfect part programs prior to initiating cutting
- High Gain Feed Forward Control boosts machining speed and accuracy
- Fast Rotary Axis Speeds optimize gear skiving and rotary axis threading
- Variable Acceleration Control calculates optimal acceleration for a combination of axes
- Position-Controlled Hobbing provides fast, convenient hobbing and skiving operations
- Real Time Tuning ensures optimal machining balance as workpiece weight changes
- Quick MAZATROL makes it possible to directly import 3D CAD models into the control and automatically extract coordinates from it to simply machine programming
- Quick EIA plots toolpaths prior to running programs and checks for any interferences in those paths
- EIA/ISO and Conversational Programming Capabilities



MAZATROL SmoothG SPECIFICATIONS

	MAZATROL	EIA	
Number of controlled axes	Simultane	ous 2 ~ 4 axes	
Least input increment	0.00001 inch, 0.0001 mm, 0.0001°		
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, Cylindrical coordinate interpolation, Polar coordinate 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), Cutting feed (per revolution), Dwell (specified time, specified number of rotation), Rapid traverse override, Cutting feed override, GO speed variable control, Feedrate clamp, Variable acceleration/deceleration control, Constant control for GO tilting*	Rapid traverse, Cutting feed, Cutting feed (per minute), Cutting feed (per revolution), Inverse time feed, Dwell (specified time, specified number of rotation), Rapid traverse override, Cutting feed override, GO speed variable control, Feedrate clamp,Time constant changing for G1, Variable acceleration/deceleration control, Constant control for GO 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: 19" touch panel, Resolution: SXGA		
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, Simultaneo	ous output of multiple M codes	
Tool offset functions	Tool position offset, Tool length offset, Tool diameter/tool nose R offset, Tool wear offset		
Coordinate system	Machine coordinate system, Work coordinate system, Loc	cal coordinate system, Additional work coordinates (300 set)	
Machine functions	— Hobbing*, Shaping function*, Dynamic compensation II*		
Machine compensation	GO/G1 independent backlash compensation, Pitch error compensation, Volumetric compensation*		
Protection functions	Emergency stop, Interlock, Stroke check before travelling, Retraction function for the vertical axis, INTELLIGENT SAFETY SHIELD (manual mode), INTELLIGENT SAFETY SHIELD (automatic mode)*, MAZAK VOICE ADVISER		
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 measure- ment, 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*		
Card interface	SD card interface, USB		
EtherNet	10 M / 100 M / 1 G bps		

 * Option

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.

For QUICK TURN Series machines, 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.

Machine models:

- **QUICK TURN 200**
- **QUICK TURN 350**
- **QUICK TURN 200M**
- **QUICK TURN 350M**
- **QUICK TURN 250**
- **QUICK TURN 250M**

MAZATROL SmoothC 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
- **Smooth Monitor** for equipment monitoring and utilization analysis
- EIA/ISO and Conversational Programming Capabilities



MAZATROL SmoothC SPECIFICATIONS

	MAZATROL EIA		
Number of controlled axes	Simultaneou	s 2 ~ 4 axes	
Least input increment	0.00001 inch, 0.0001 mm, 0.0001°		
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, GO speed variable control, Feedrate clamp, Variable acceleration/deceleration control, Constant control for GO tilting*	Rapid traverse, Cutting feed, Cutting feed (per minute), Inverse time feed, Dwell (specified time, specified number or rotation), Rapid traverse override, Cutting feed override, GO speed variable control, Feedrate clamp, Time constant changing for G1, Variable acceleration/deceleration control, Constant control for GO 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, Loca	l 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 QUICK TURN Series machines. Standard and customized <u>Mazak automation solutions</u> paired with extensive and ongoing support ensure the best fit for individual production needs and that output goals are achieved.

STANDARD AUTOMATION



OVERHEAD GANTRIES

Overhead gantries 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.

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



OPTIONAL TWO-PALLET CHANGERS

Optional two-pallet changers enhance productivity by allowing part loading and unloading while the machine continues to work uninterrupted.



ENGINEERED SOLUTIONS



CUSTOM ENGINEERED SOLUTIONS

Engineered Solutions encompass a variety of custom automation solutions tailored specifically to individual customer needs. 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

<u>Articulated robots</u> 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 QUICK TURN Series and all its machines, Mazak offers digital solutions for fully integrated, data-driven smart manufacturing. These progressive solutions include 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 QUICK TURN Series, to be MTConnect compliant and offers affordable adapters for existing Mazak machines in the field.









MAZAK SMOOTH LINK

Perfect for both large and small shops, Mazak SMOOTH Link makes it possible to sync machine tools with mobile devices to monitor and manage status at any time from a smartphone, tablet or laptop computer. This digital tool captures real-time information from the control and securely transfers the information to a mobile device via Wi-Fi.

Features and benefits of Mazak SMOOTH Link:

- Machine monitoring gives instant operational status of a machine and the workpiece in production
- Displays tool layouts and data of each tool changer pocket/ position for effective tool management
- Programming application screen quickly shows all saved EIA programs and machine's remaining storage capacity
- Simple to set up and does not require Internet access, a server PC or server license

MAZAK SMARTBOX

Secure the "big data" that comes from connecting machines to the Industrial Internet of Things (IIoT). Mazak SmartBox is a launch platform for easy and highly secure entrance into the IIoT. As a scalable, end-to-end solution, SmartBox connects manufacturing equipment, including machines, software and other devices, to a factory's network and allows the free flow of information to management systems via MTConnect.

Features and benefits of Mazak SmartBox:

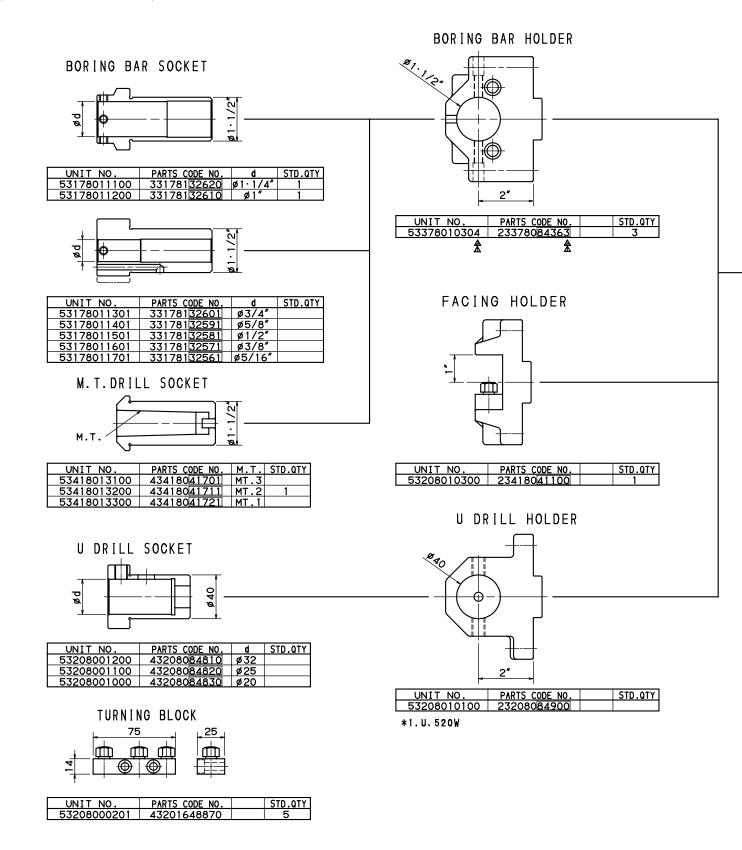
- Advanced cyber security protection gives IT departments confidence to digitally integrate manufacturing operations
- Completely open architecture and works with all popular third-party analytical software platforms
- Monitor any machine regardless of make, model or age



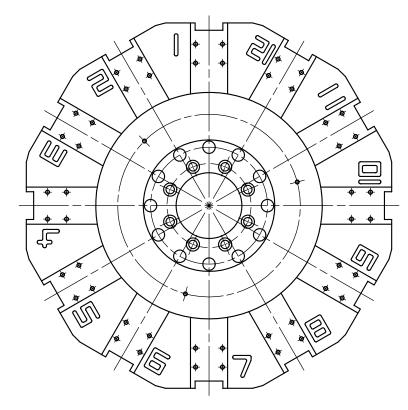


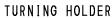


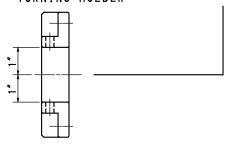
TOOLING SYSTEM — QUICK TURN 200, 250



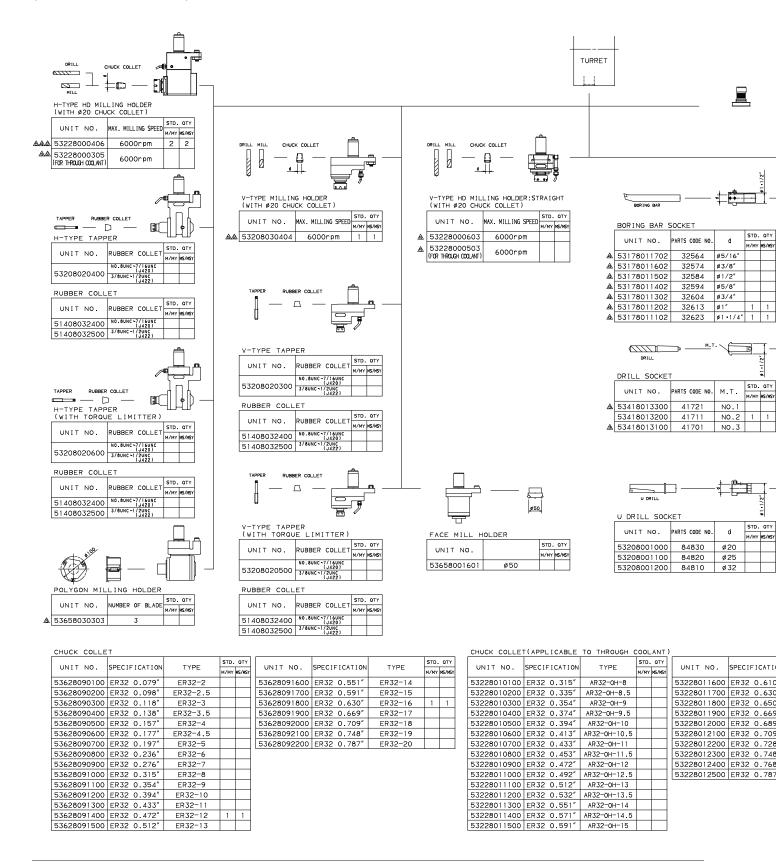
TOOLING SYSTEM — QUICK TURN 200, 250



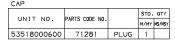


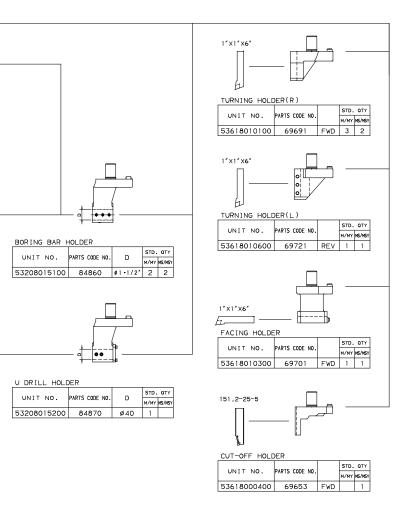


TOOLING SYSTEM — QUICK TURN 200, 250M, 250MS, 250MY, 250MSY



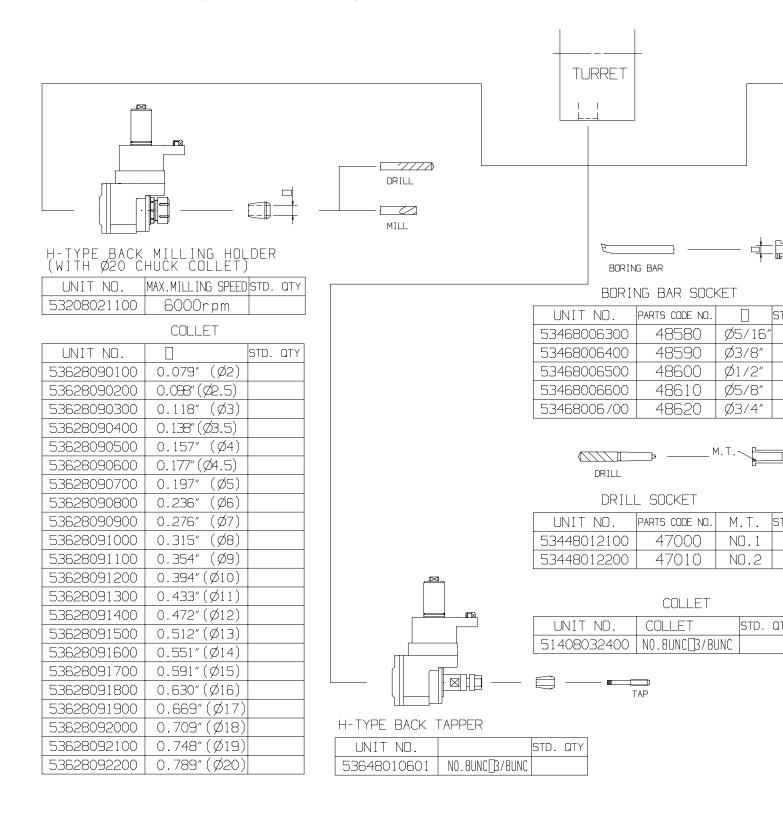
TOOLING SYSTEM — QUICK TURN 200, 250M, 250MS, 250MY, 250MSY (FOR REFERENCE ONLY)



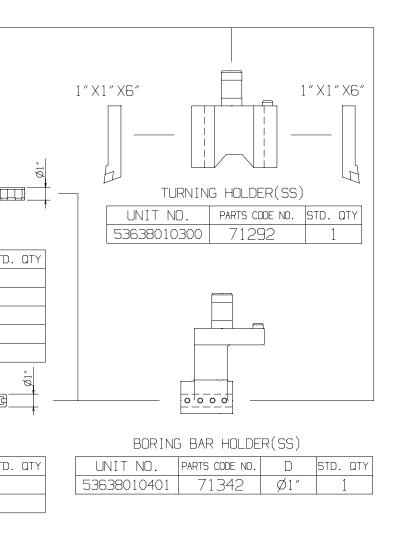


N	TYPE	STD. QTY	
	TIPE	M/MY	MS/MSY
,	AR32-OH-15.5		
,	AR32-0H-16		
y	AR32-0H-16.5		
,	AR32-0H-17		
,	AR32-0H-17.5		
,	AR32-0H-18		
,	AR32-0H-18.5		
,	AR32-0H-19		
,	AR32-0H-19.5		
y	AR32-0H-20		

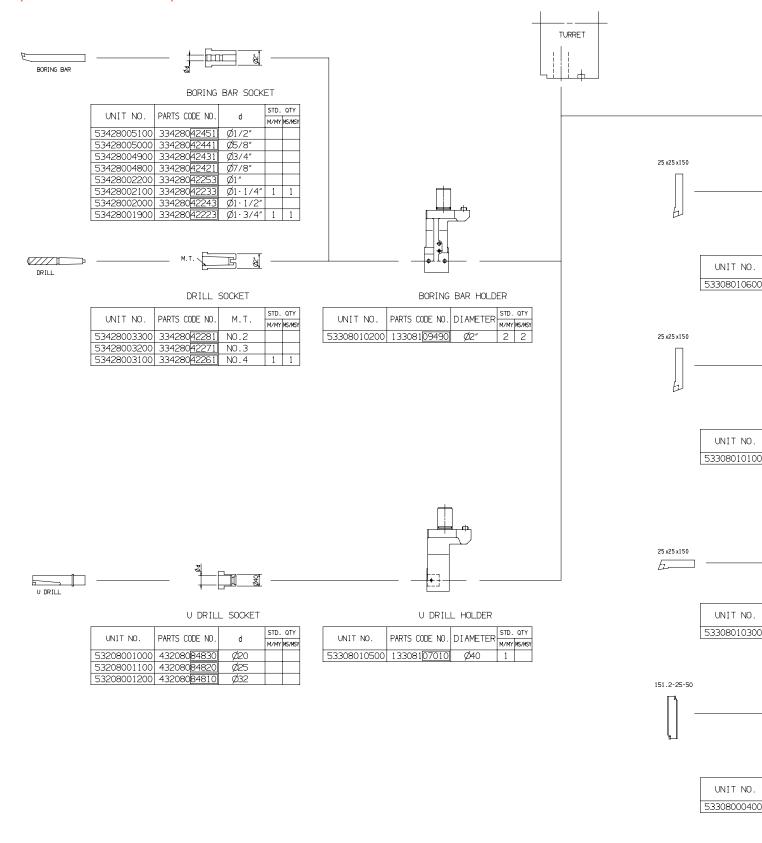
TOOLING SYSTEM — QUICK TURN 200, 250MS, 250MSY SECOND SPINDLE (FOR REFERENCE ONLY)



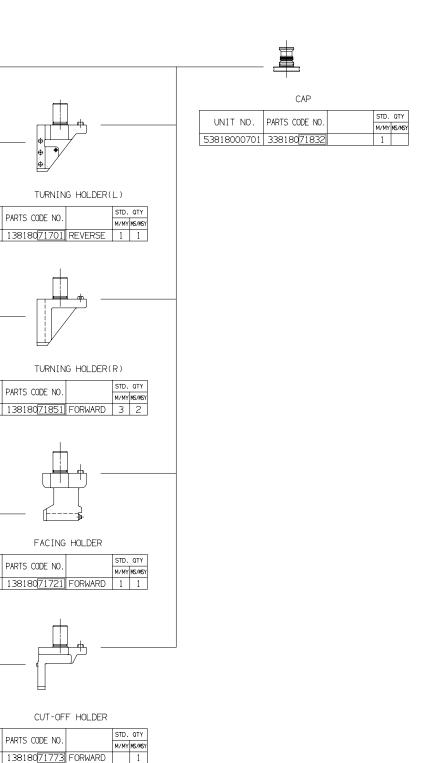
TOOLING SYSTEM — QUICK TURN 200, 250MS, 250MSY SECOND SPINDLE (FOR REFERENCE ONLY)



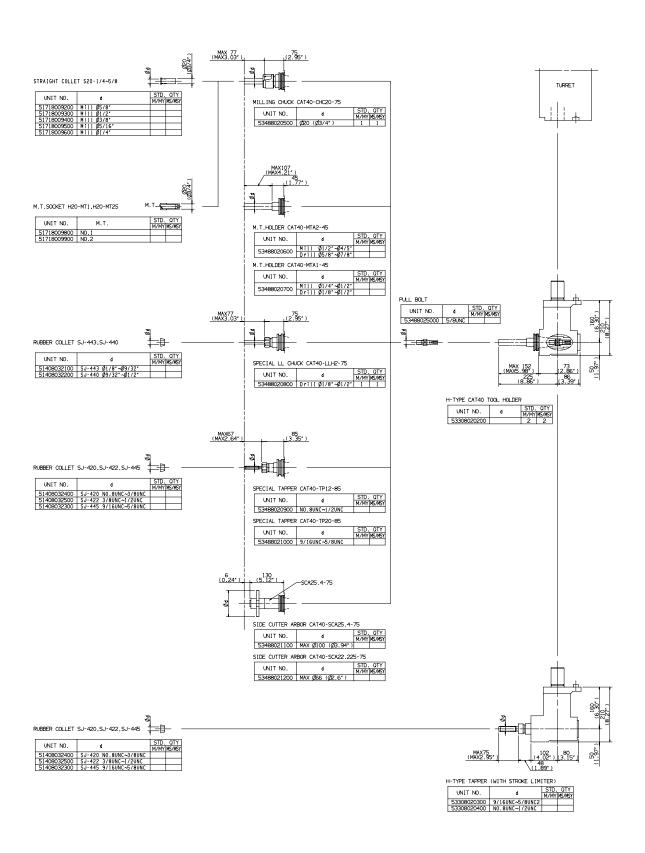
TOOLING SYSTEM — QUICK TURN 350M, 350MS, 350MY, 350MSY



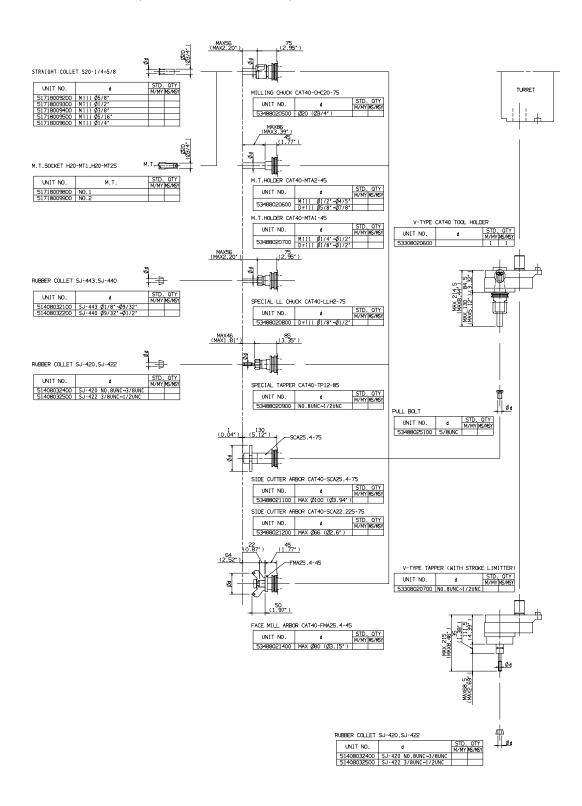
TOOLING SYSTEM — QUICK TURN 350M, 350MS, 350MY, 350MSY (FOR REFERENCE ONLY)



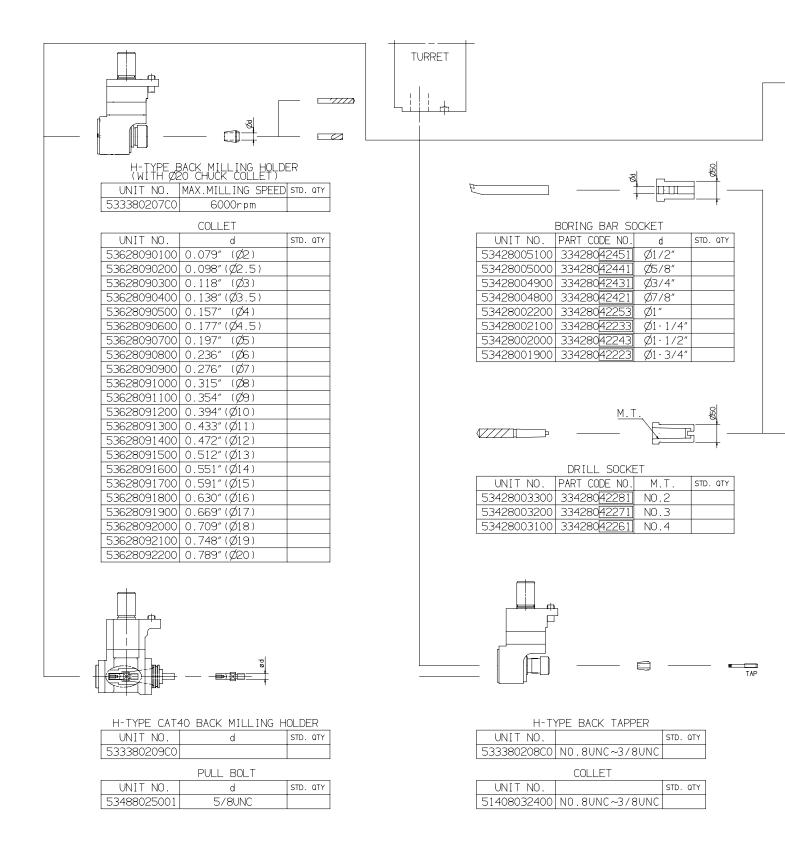
TOOLING SYSTEM — QUICK TURN 350M, 350MS, 350MY, 350MSY MILLING TOOLS (FOR REFERENCE ONLY)



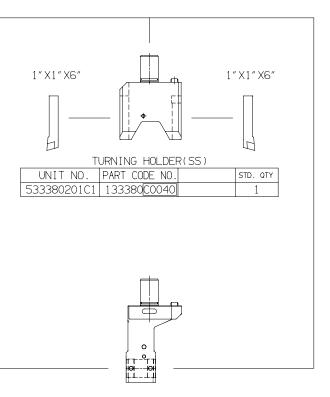
TOOLING SYSTEM — QUICK TURN 350M, 350MS, 350MY, 350MSY MILLING TOOLS (FOR REFERENCE ONLY)



TOOLING SYSTEM — QUICK TURN 350MS, 350MSY SECOND SPINDLE (FOR REFERENCE ONLY)



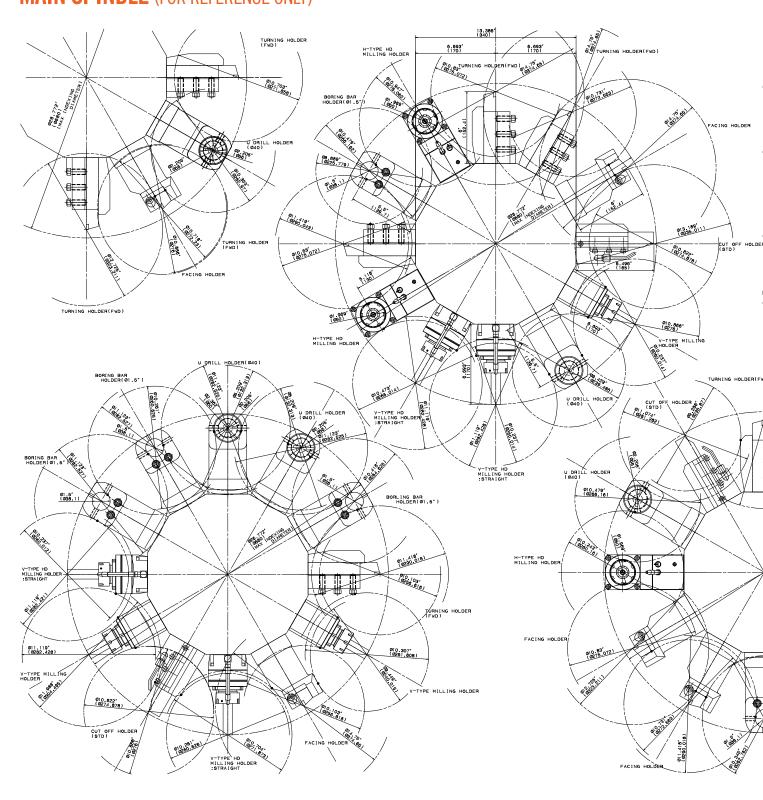
TOOLING SYSTEM — QUICK TURN 350MS, 350MSY SECOND SPINDLE (FOR REFERENCE ONLY)



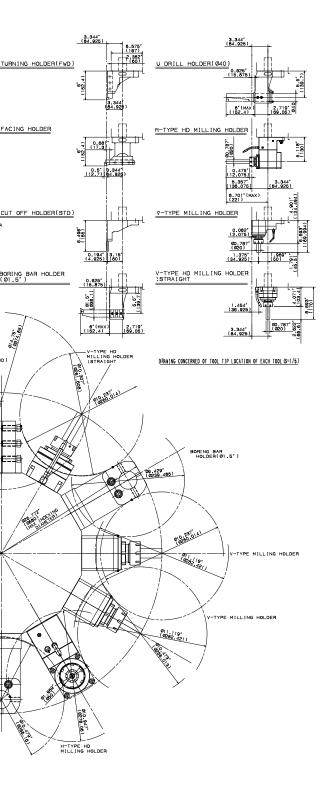
BORING BAR HOLDER(SS)

UNIT NO.	PART CODE NO.	d	STD. QTY
533380202C1	133380C0050	Ø50	1

TOOL INTERFERENCE — QUICK TURN 200, 200M, 200MS, 200MY, 200MSY, 250, 250M, 250MS, 250MY, 250MSY MAIN SPINDLE (FOR REFERENCE ONLY)

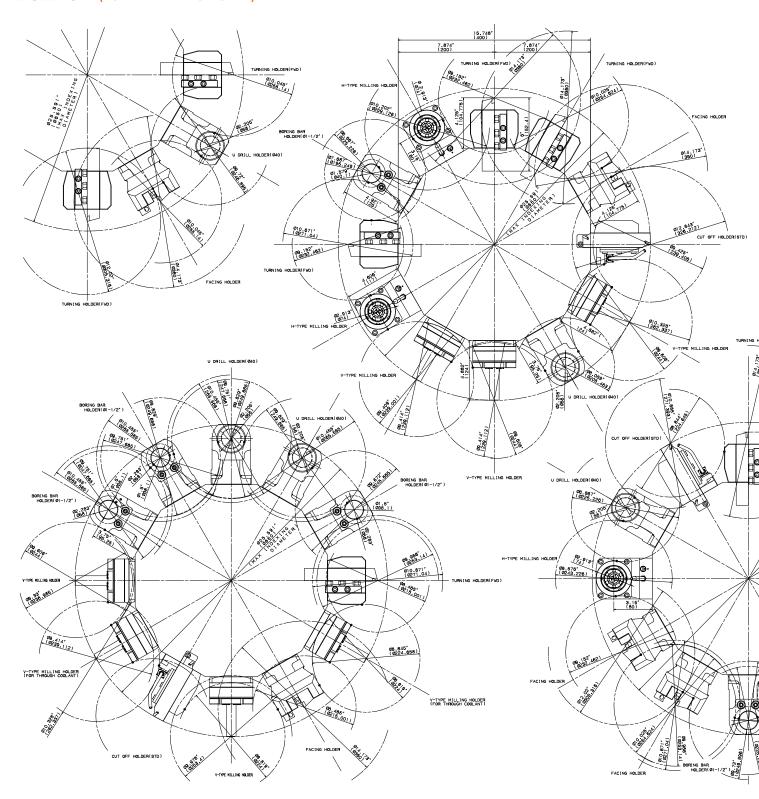


TOOL INTERFERENCE — QUICK TURN 200, 200M, 200MS, 200MY, 200MSY, 250, 250M, 250MS, 250MY, 250MSY MAIN SPINDLE (FOR REFERENCE ONLY)

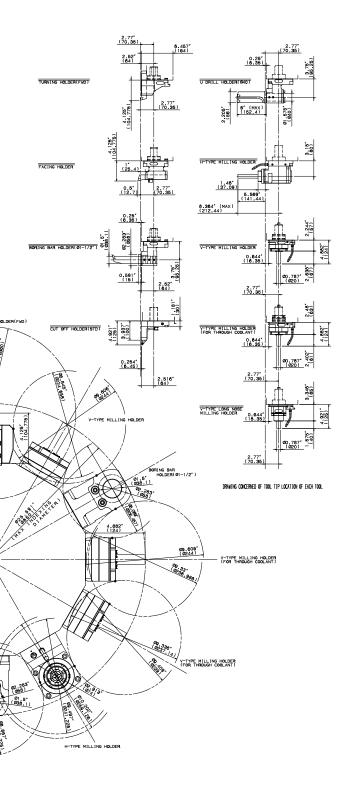


TOOL INTERFERENCE — QUICK TURN 200, 200M, 200MS, 200MY, 200MSY, 250, 250M, 250MS, 250MY, 250MSY

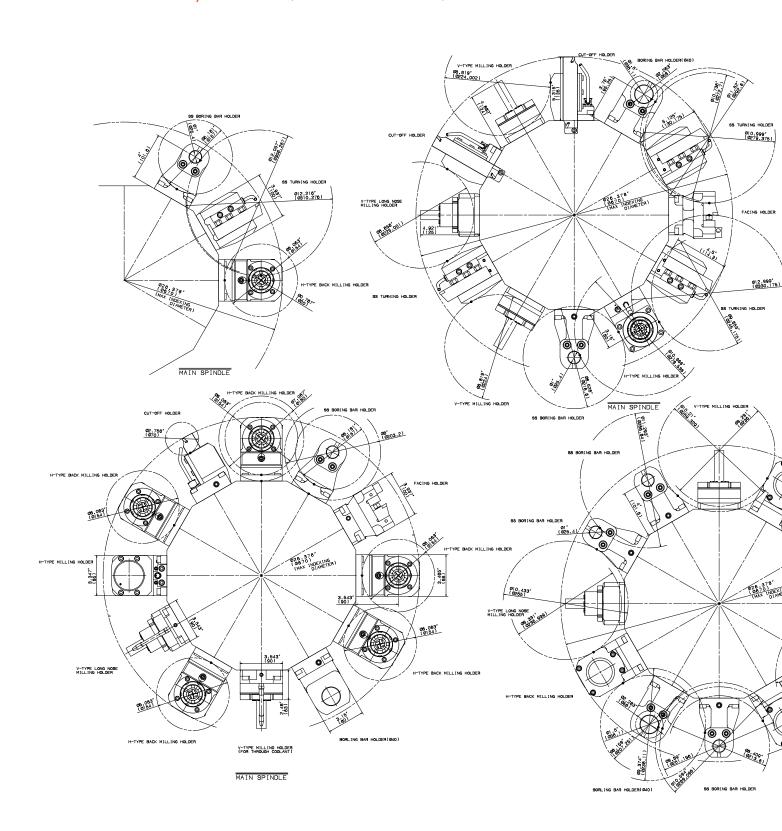
BOLT-ON (FOR REFERENCE ONLY)



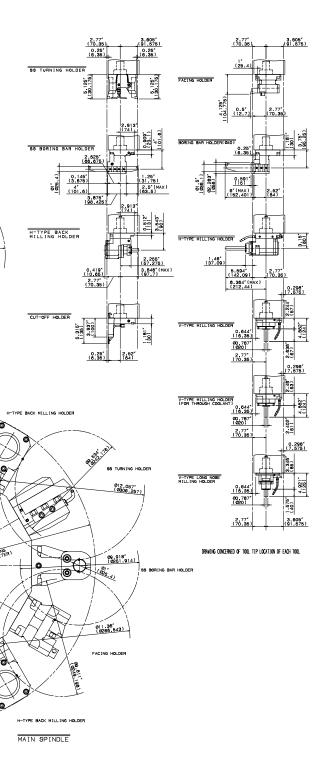
TOOL INTERFERENCE — QUICK TURN 200, 200M, 200MS, 200MY, 200MSY, 250, 250M, 250MS, 250MY, 250MSY BOLT-ON (FOR REFERENCE ONLY)



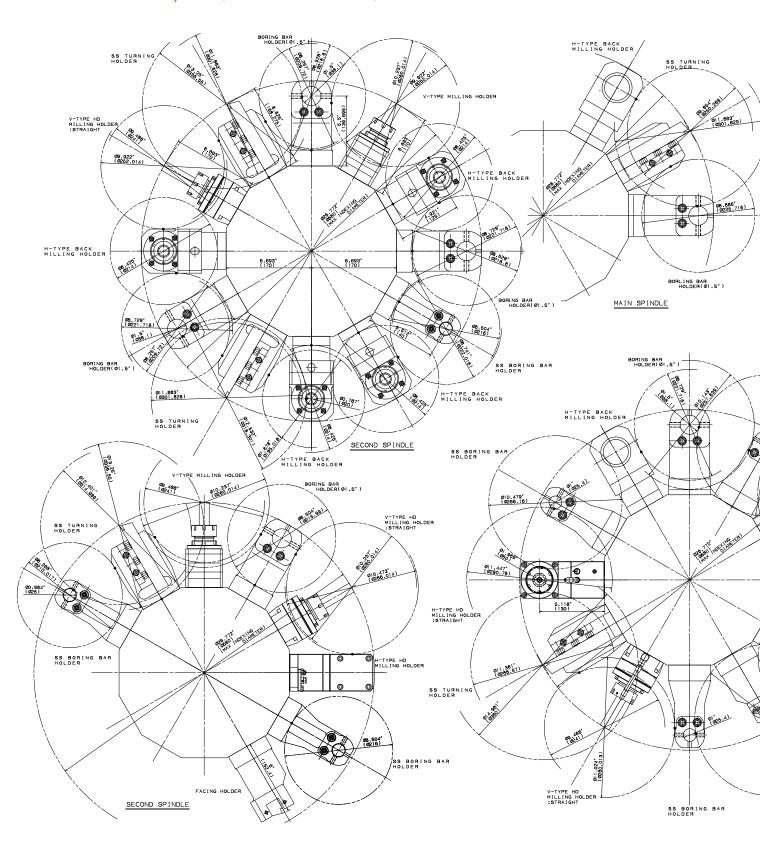
TOOL INTERFERENCE — QUICK TURN 200MS, 200MSY, 250MS, 250MSY SECOND SPINDLE, BOLT-ON (FOR REFERENCE ONLY)



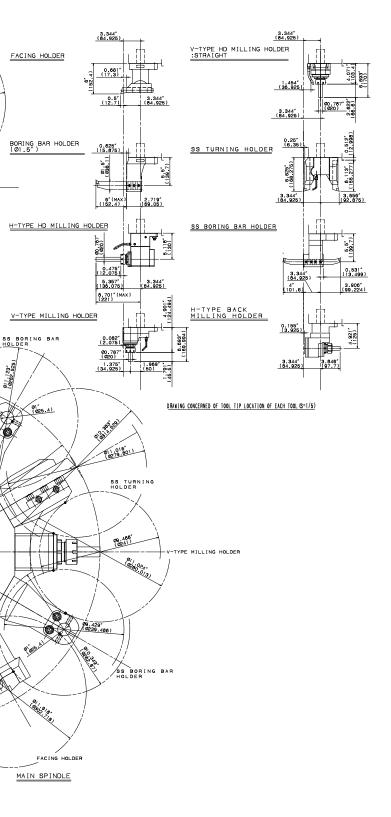
TOOL INTERFERENCE — QUICK TURN 200MS, 200MSY, 250MS, 250MSY SECOND SPINDLE, BOLT-ON (FOR REFERENCE ONLY)



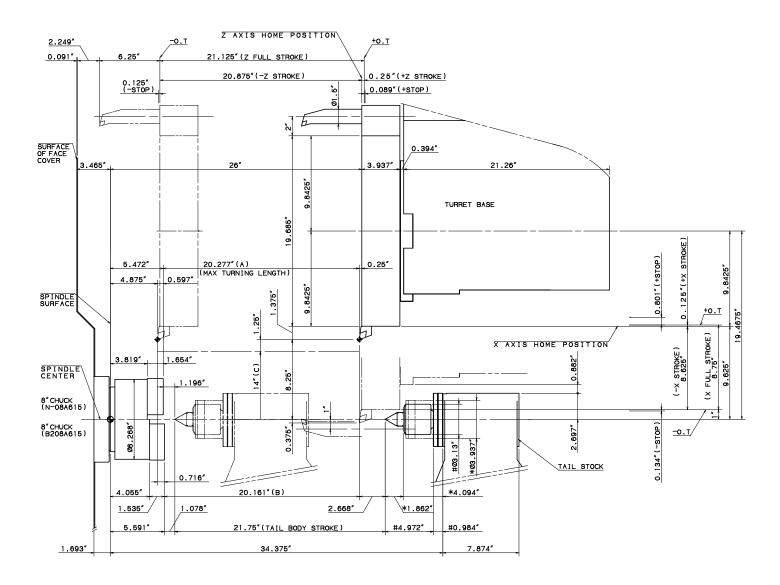
TOOL INTERFERENCE — QUICK TURN 200MS, 200MSY, 250MS, 250MSY SECOND SPINDLE, VDI (FOR REFERENCE ONLY)



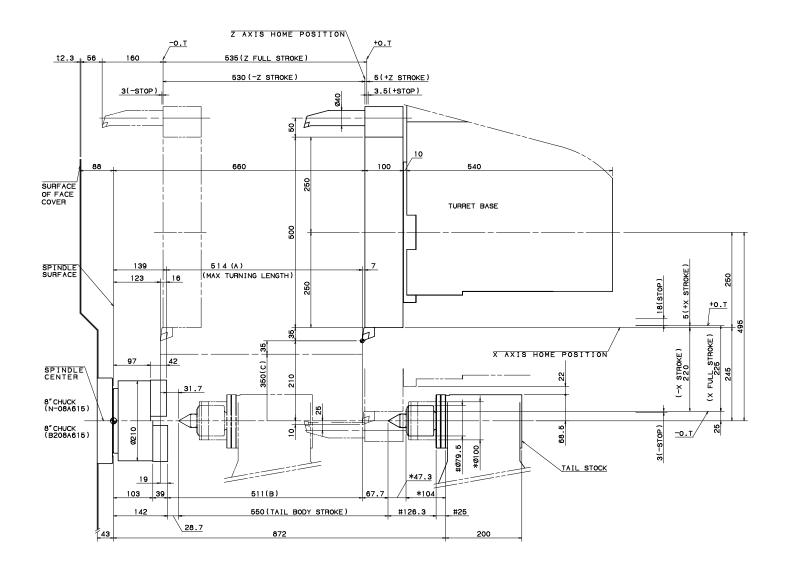
TOOL INTERFERENCE — QUICK TURN 200MS, 200MSY, 250MS, 250MSY SECOND SPINDLE, VDI (FOR REFERENCE ONLY)



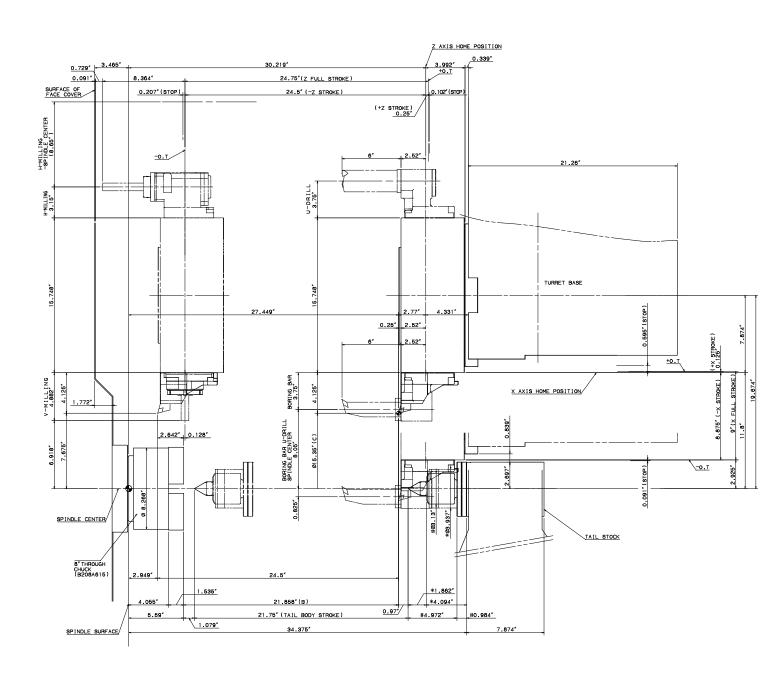
STROKE DIAGRAM – QUICK TURN 200, 500U (inch)



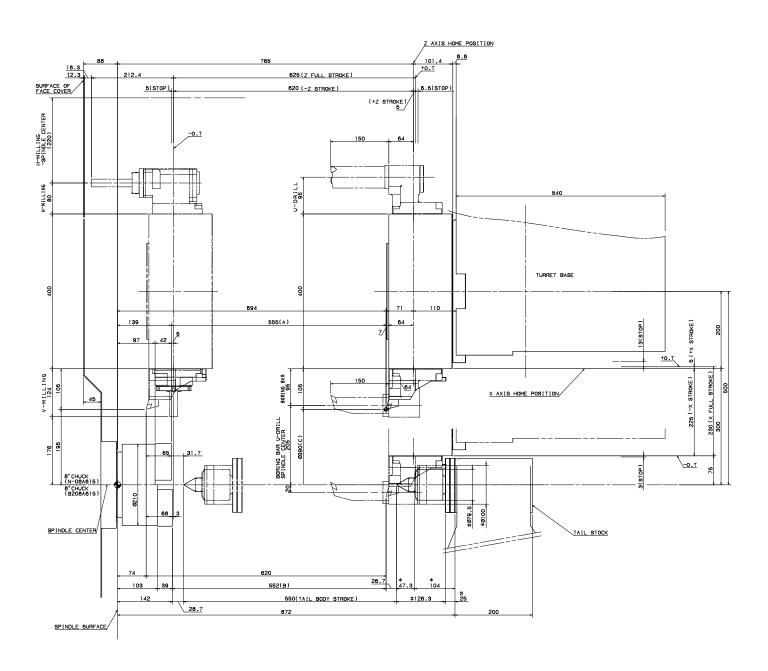
STROKE DIAGRAM – QUICK TURN 200, 500U (mm)



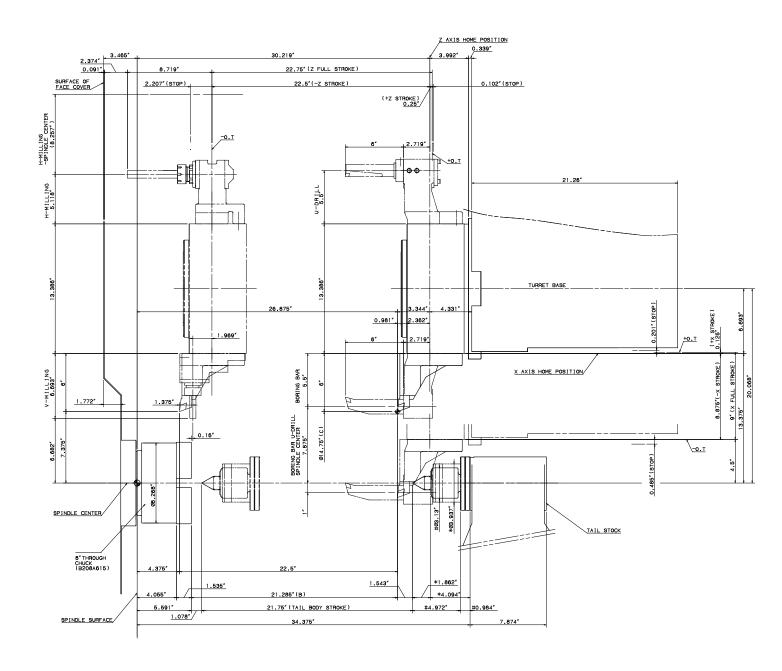
STROKE DIAGRAM — QUICK TURN 200M, 500U BOLT-ON, 8" CHUCK (inch) (FOR REFERENCE ONLY)



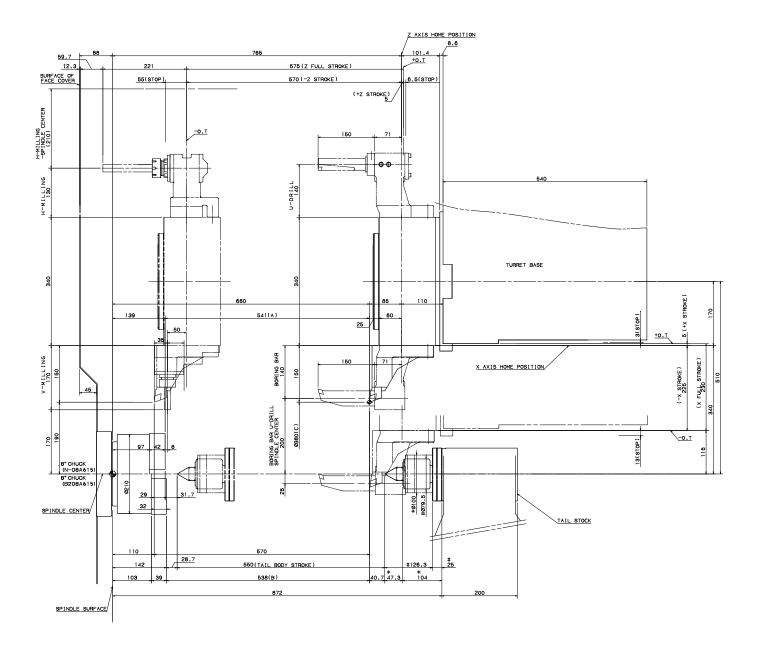
STROKE DIAGRAM — QUICK TURN 200M, 500U BOLT-ON, 8" CHUCK (mm) (FOR REFERENCE ONLY)



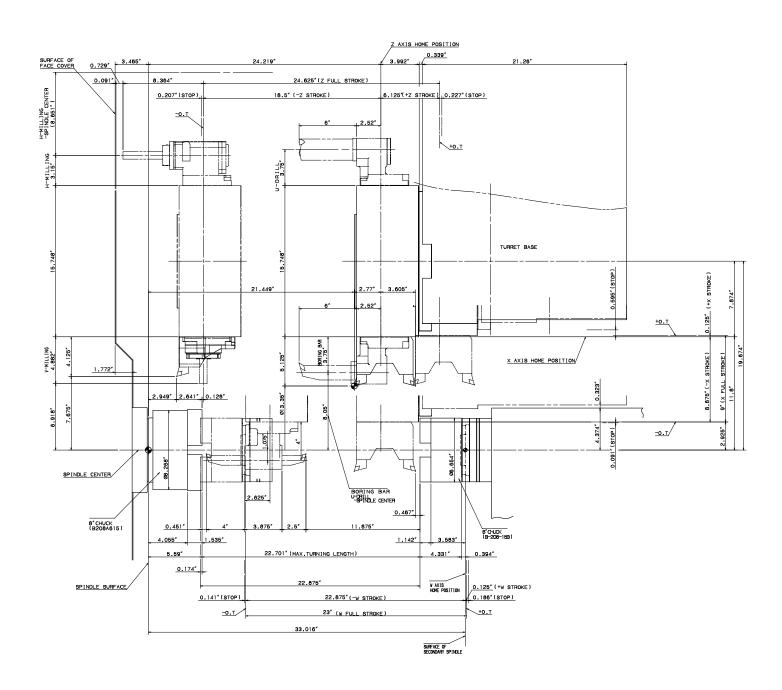
STROKE DIAGRAM — QUICK TURN 200M, 500U VDI, 8" CHUCK (inch)



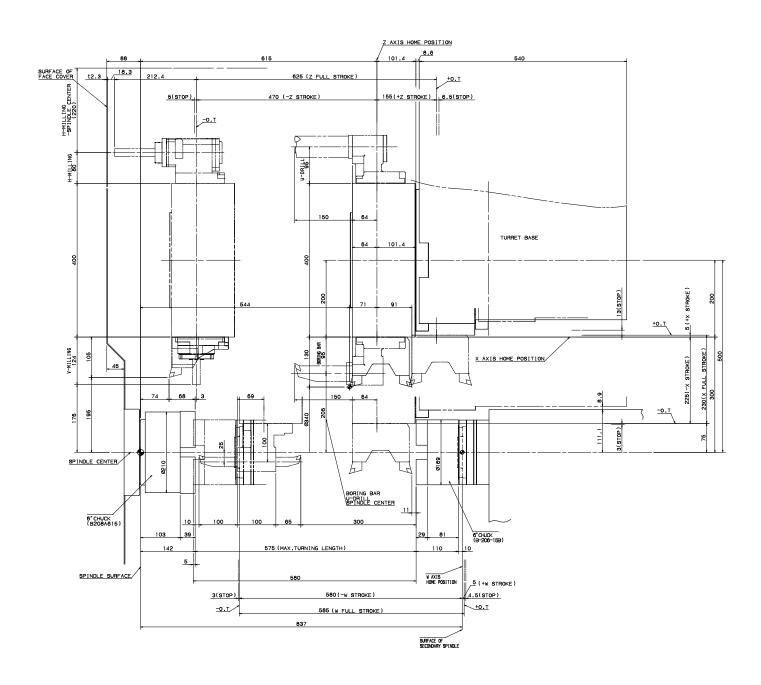
STROKE DIAGRAM — QUICK TURN 200M, 500U VDI, 8" CHUCK (mm)



STROKE DIAGRAM — QUICK TURN 200MS, 500U BOLT-ON, 8" CHUCK (inch) (FOR REFERENCE ONLY)



STROKE DIAGRAM — QUICK TURN 200MS, 500U BOLT-ON, 8" CHUCK (mm) (FOR REFERENCE ONLY)



STROKE DIAGRAM — QUICK TURN 200MS, 500U VDI, 8" CHUCK (inch) (FOR REFERENCE ONLY)

SURFACE OF FACE COVER Z AXIS HOME POSITION 2.374" 16.5" (-Z STROKE) 9" (X FULL STROKE) 13,375" V-MILLING 6.693" 1.375" 0.159" 2.128" -0.T/ SPINDLE CENTER BORING BAR V-DRILL SPINDLE CENTER 8"CHUCK (B208A615) 1.142" 22.701" (MAX.TURNING LENGTH) 4.331" 0.394" 0.174 0.125" (+w STROKE) 0.141"(STOP) 22.875"(-W STROKE) 0.186"(STOP)

23" (W FULL STROKE)

33.016

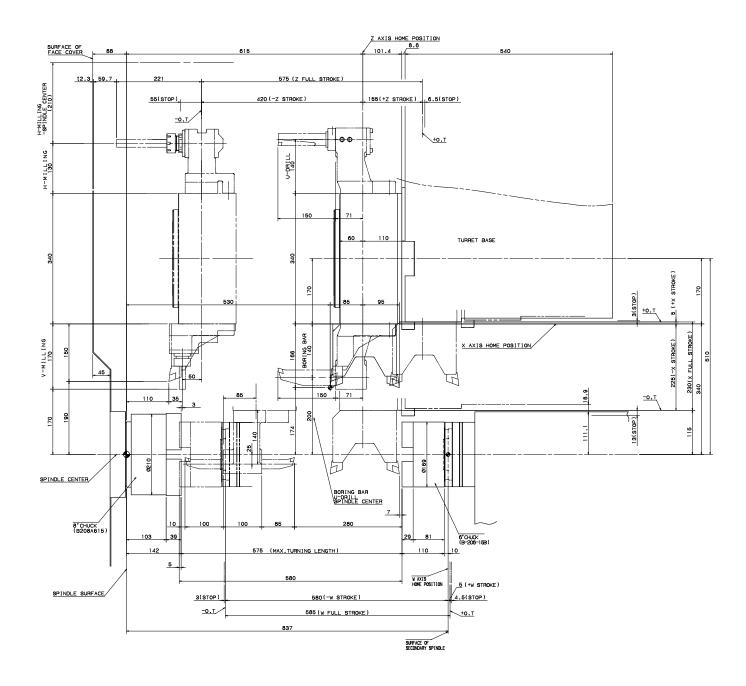
+0.T

SURFACE OF SECONDARY SPINDLE

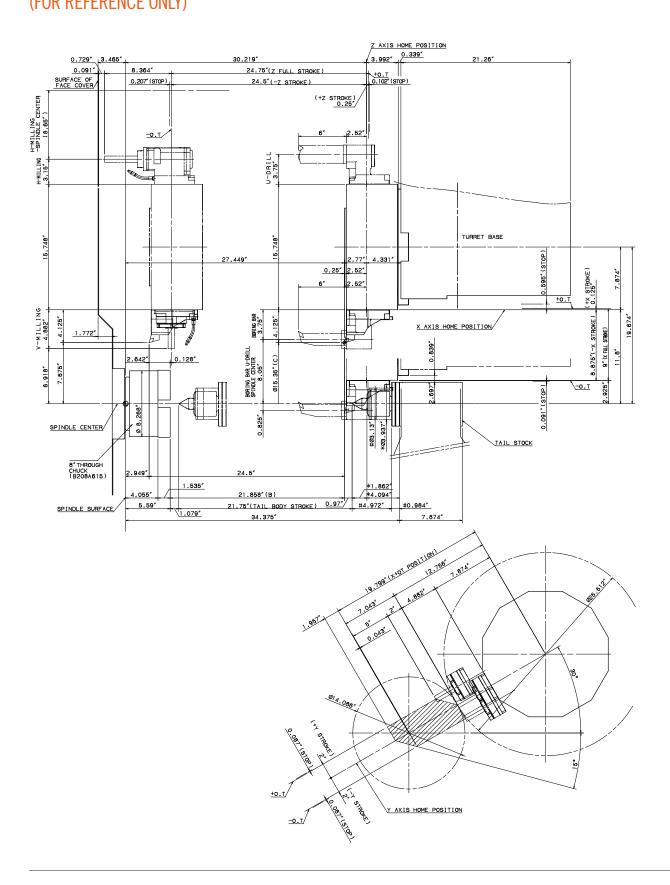
-0.T

SPINDLE SURFACE,

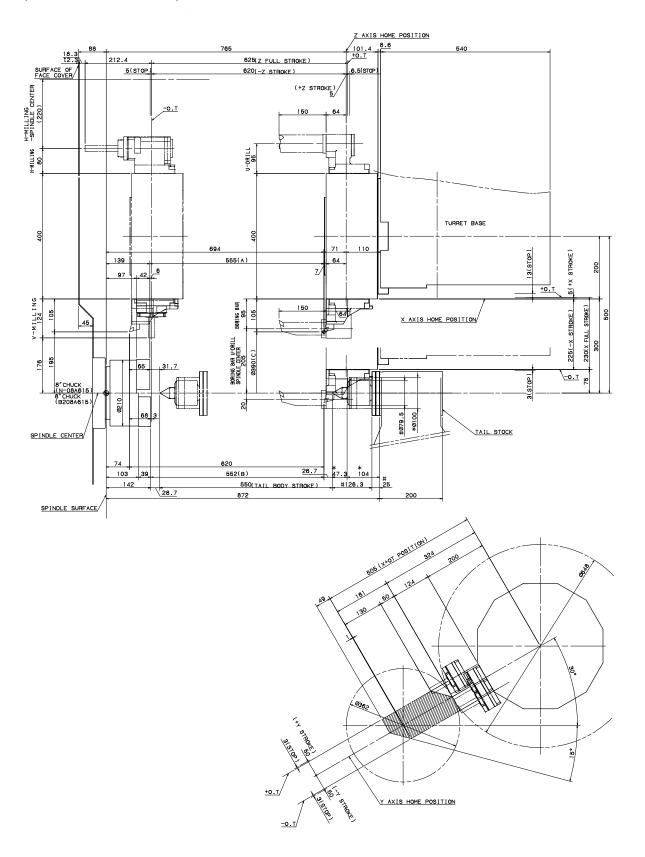
STROKE DIAGRAM — QUICK TURN 200MS, 500U VDI, 8" CHUCK (mm)



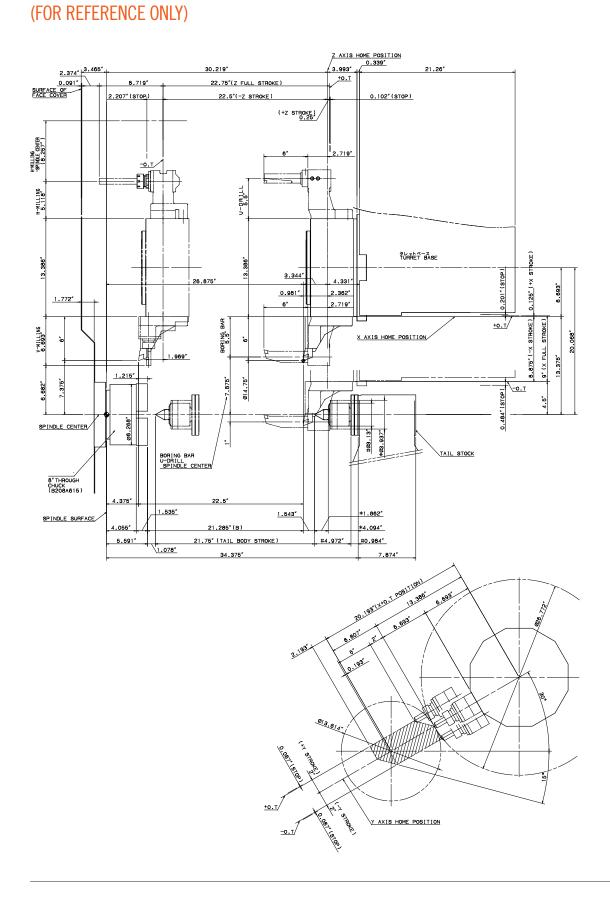
STROKE DIAGRAM — QUICK TURN 200MY, 500U BOLT-ON 8" CHUCK (inch) (FOR REFERENCE ONLY)



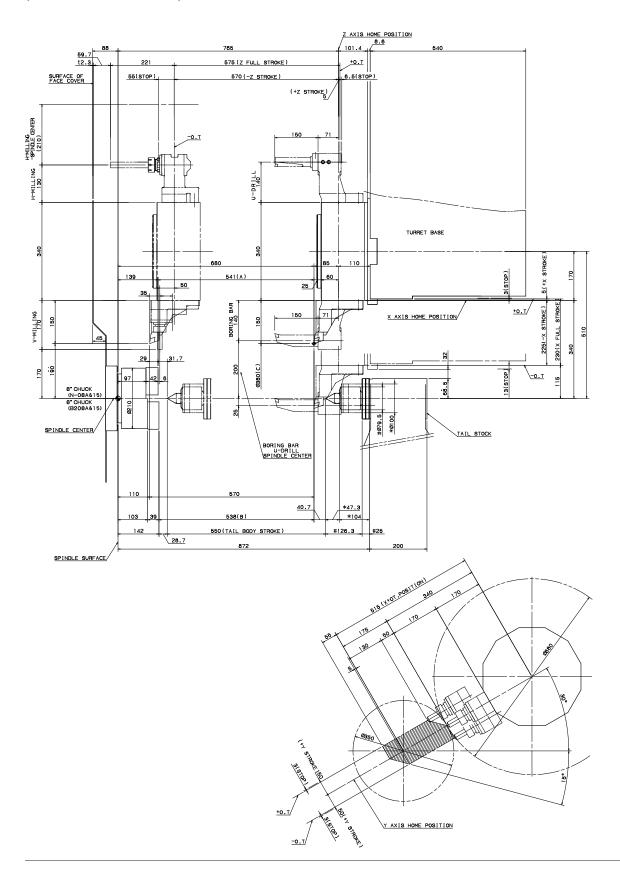
STROKE DIAGRAM — QUICK TURN 200MY, 500U BOLT-ON 8" CHUCK (mm)



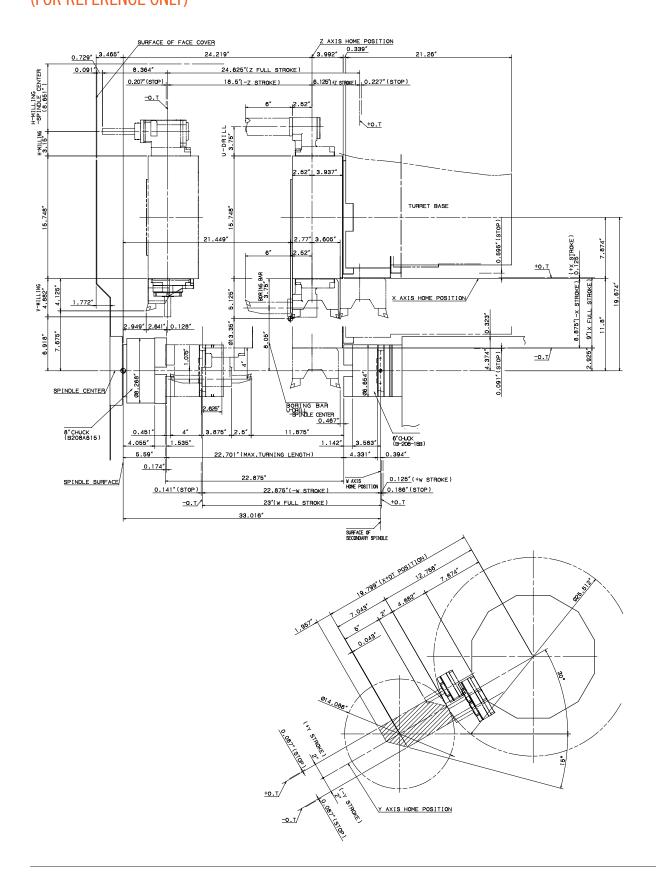
STROKE DIAGRAM — QUICK TURN 200MY, 500U VDI, 8" CHUCK (inch)



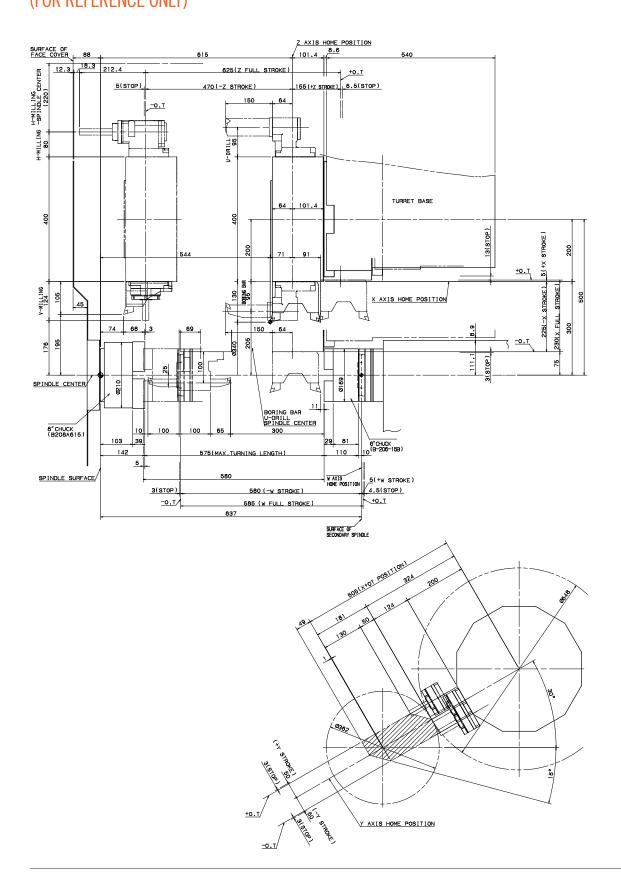
STROKE DIAGRAM — QUICK TURN 200MY, 500U VDI, 8" CHUCK (mm)



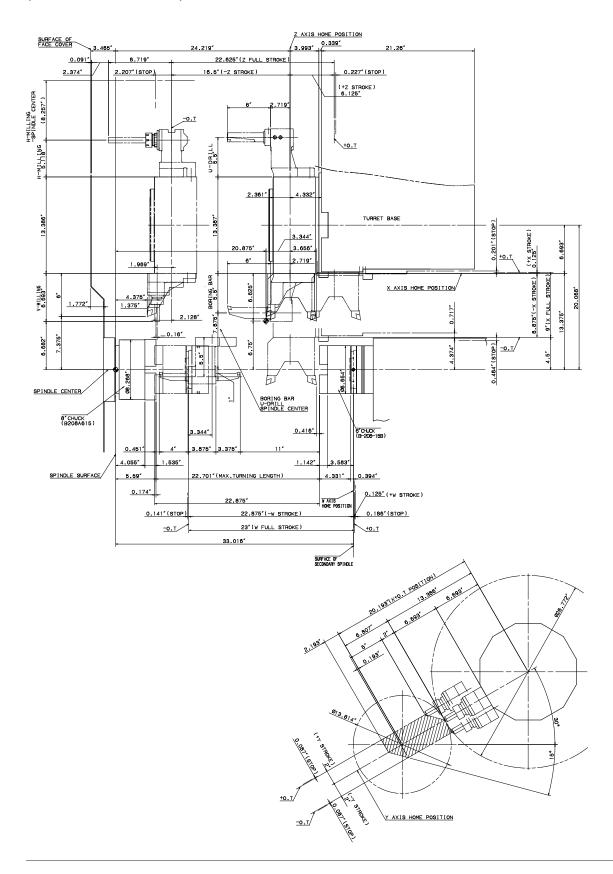
STROKE DIAGRAM — QUICK TURN 200MSY, 500U BOLT-ON, 8" CHUCK (inch) (FOR REFERENCE ONLY)



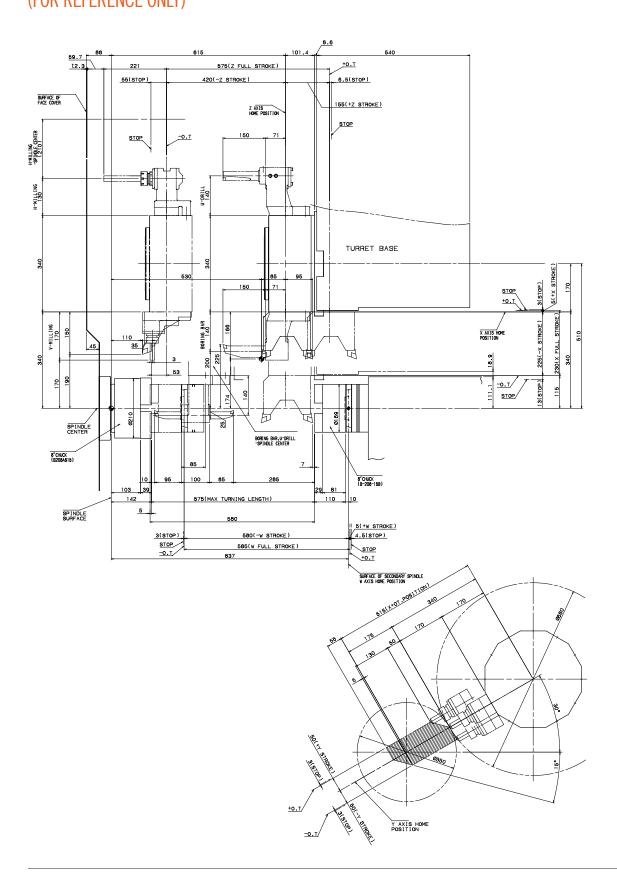
STROKE DIAGRAM — QUICK TURN 200MSY, 500U BOLT-ON, 8" CHUCK (mm) (FOR REFERENCE ONLY)



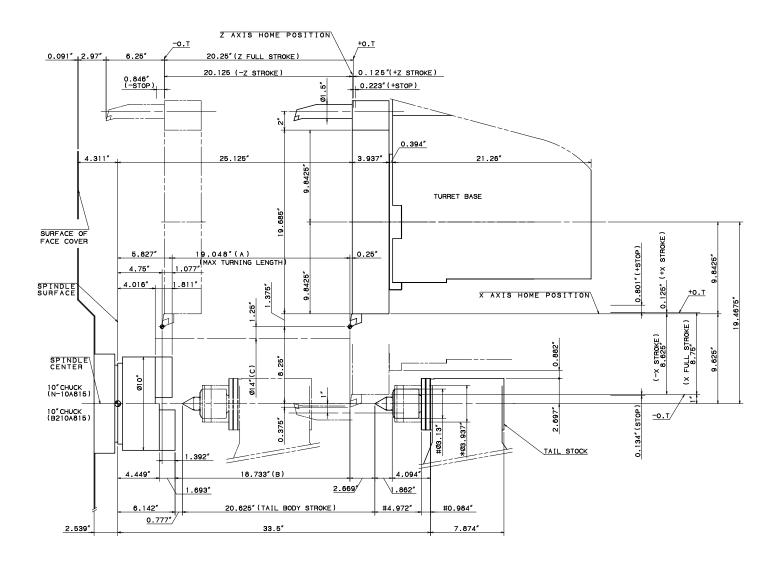
STROKE DIAGRAM — QUICK TURN 200MSY, 500U VDI, 8" CHUCK (inch)



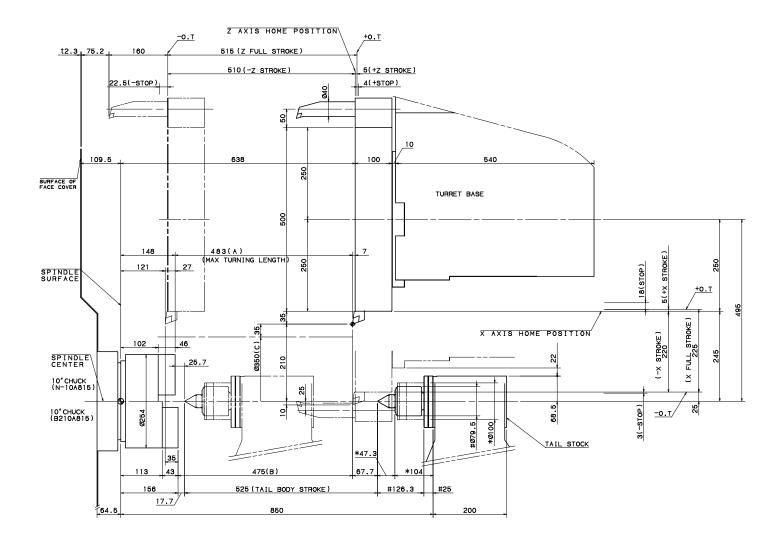
STROKE DIAGRAM — QUICK TURN 200MSY, 500U VDI, 8" CHUCK (mm) (FOR REFERENCE ONLY)



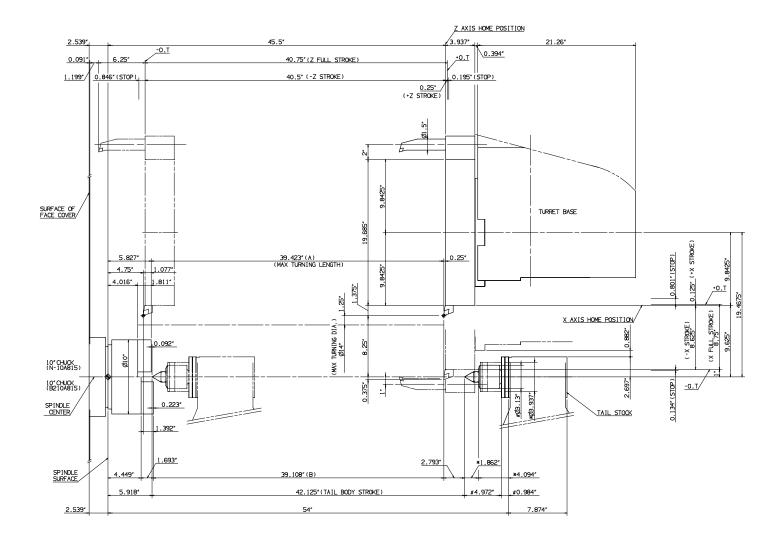
STROKE DIAGRAM – QUICK TURN 250, 500U (inch)



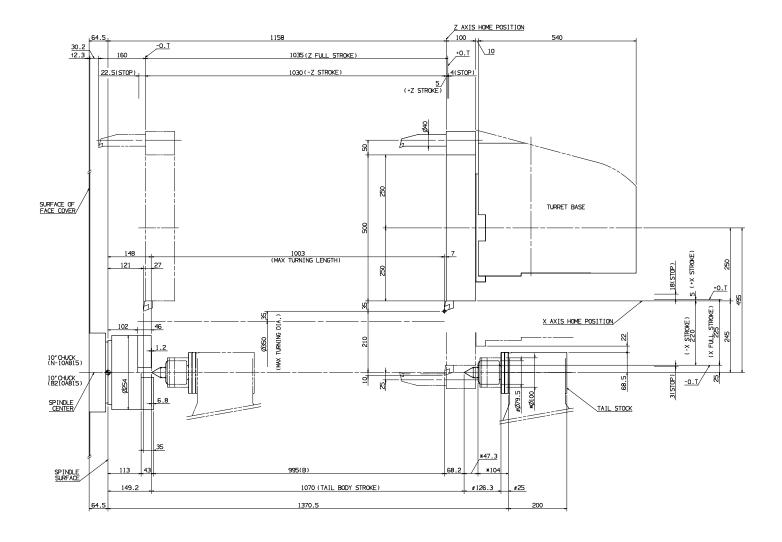
STROKE DIAGRAM – QUICK TURN 250, 500U (mm)



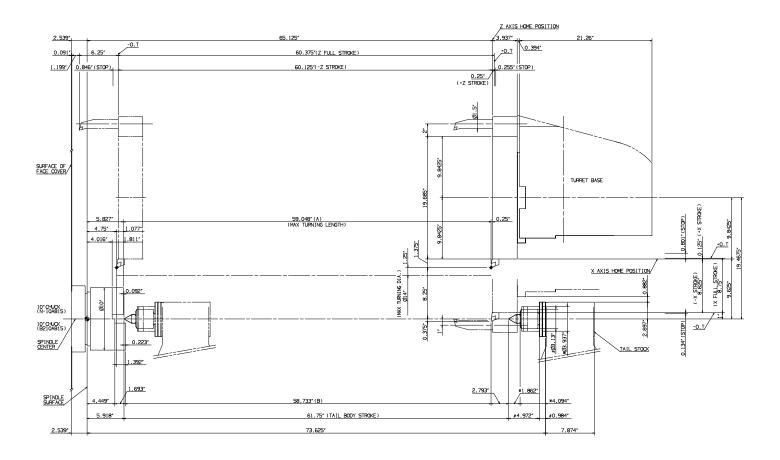
STROKE DIAGRAM - QUICK TURN 250, 1000U (inch)



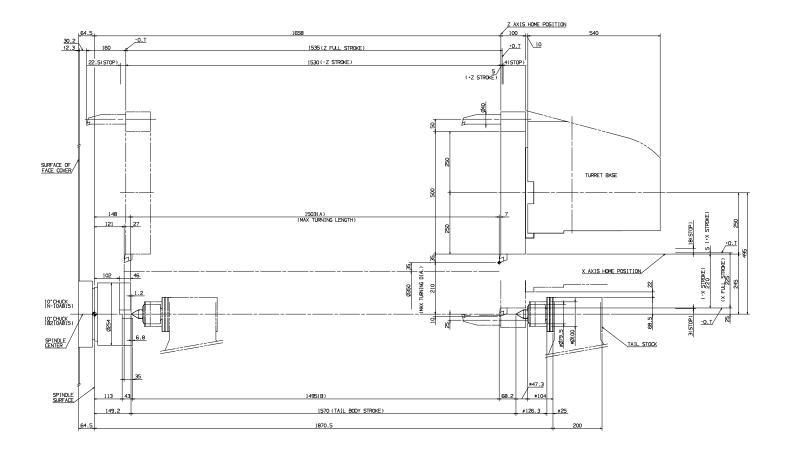
STROKE DIAGRAM — QUICK TURN 250, 1000U (mm)



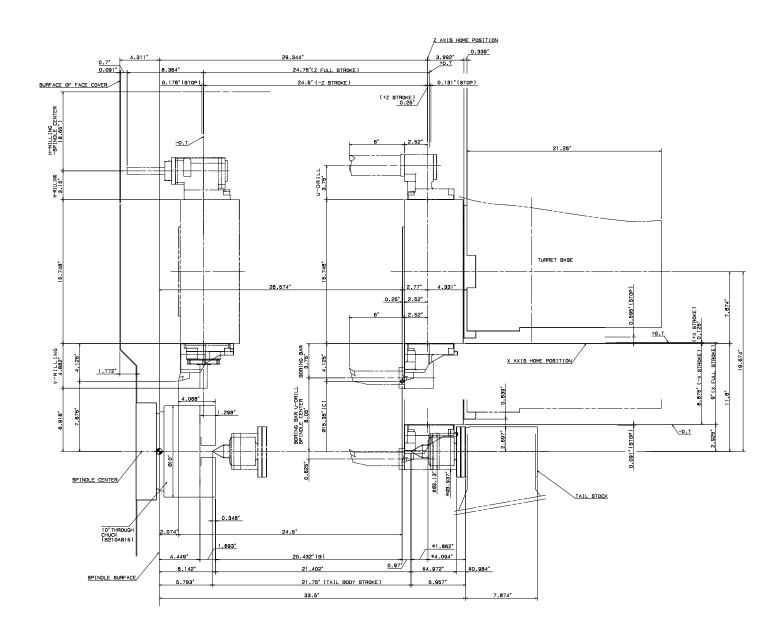
STROKE DIAGRAM — QUICK TURN 250, 1500U, 10" CHUCK (inch)



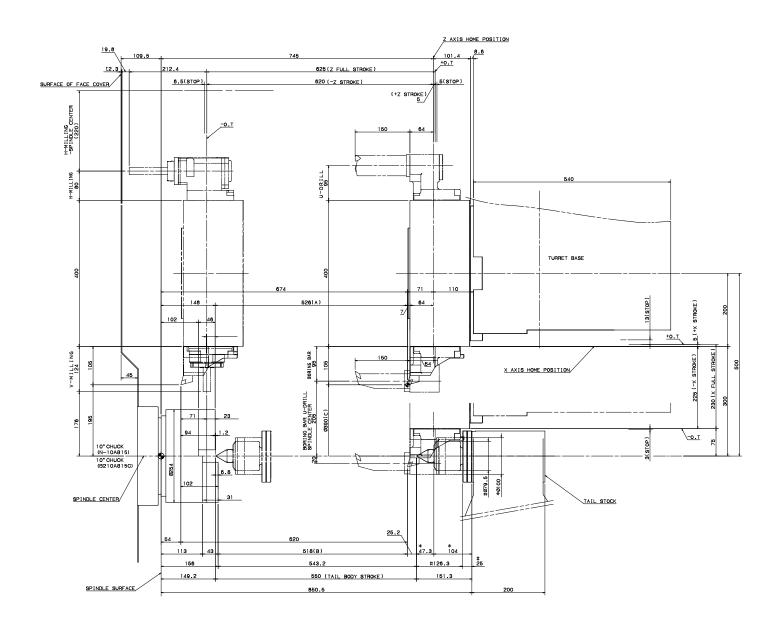
STROKE DIAGRAM — QUICK TURN 250, 1500U, 10" CHUCK (mm)



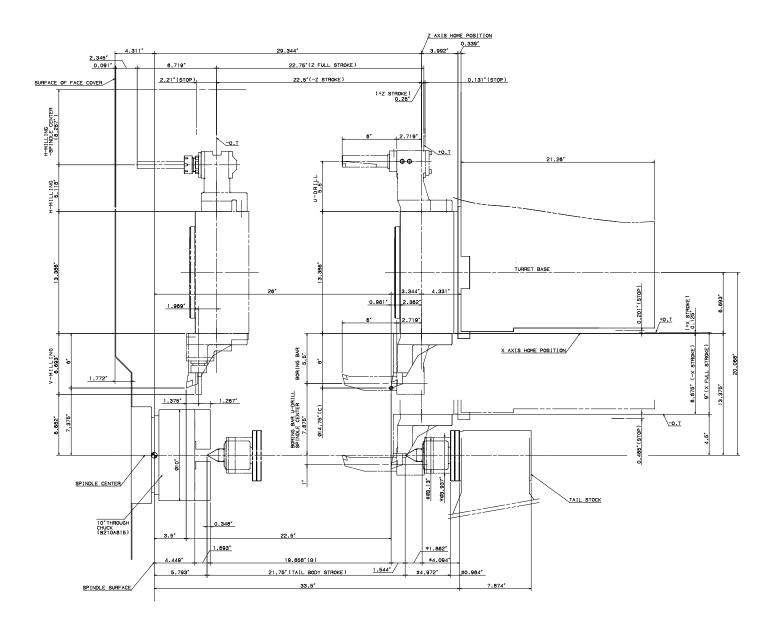
STROKE DIAGRAM — QUICK TURN 250M, 500U BOLT-ON, 10" CHUCK (inch) (FOR REFERENCE ONLY)



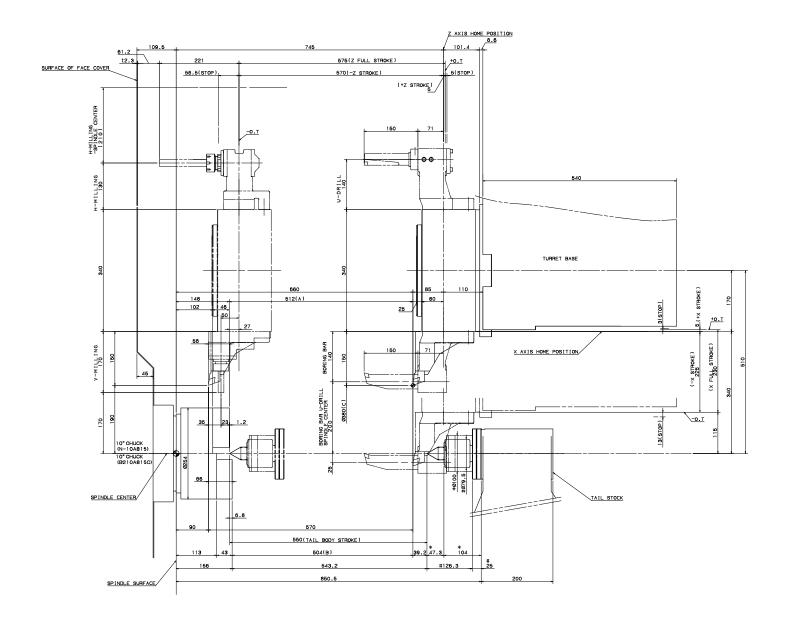
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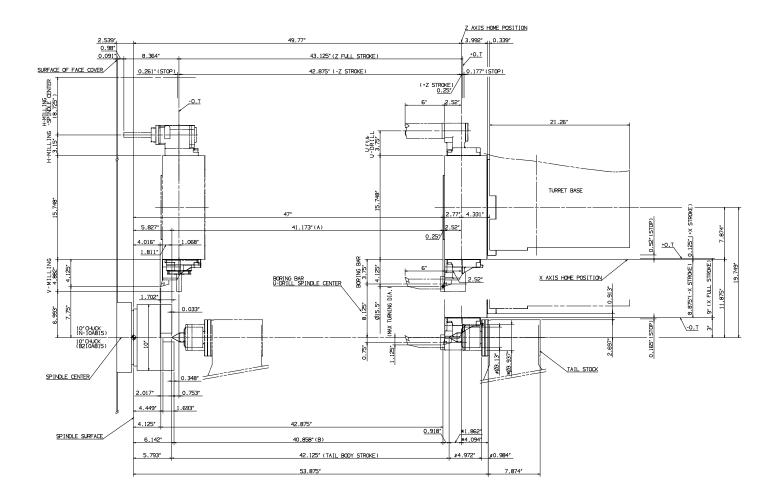
STROKE DIAGRAM — QUICK TURN 250M, 500U VDI, 10" CHUCK (inch)



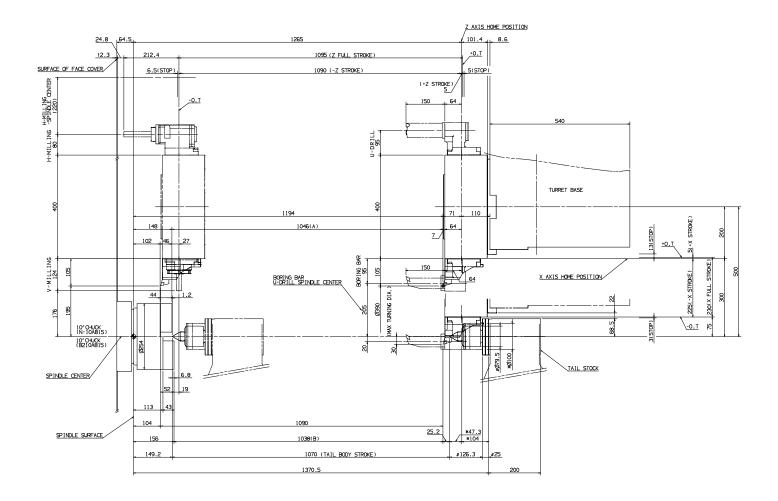
STROKE DIAGRAM — QUICK TURN 250M, 500U VDI, 10" CHUCK (mm)



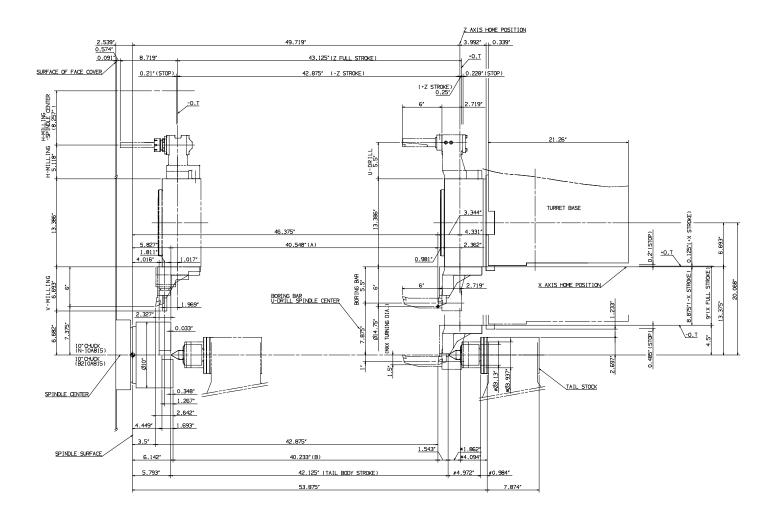
STROKE DIAGRAM — QUICK TURN 250M, 1000U BOLT-ON (inch)



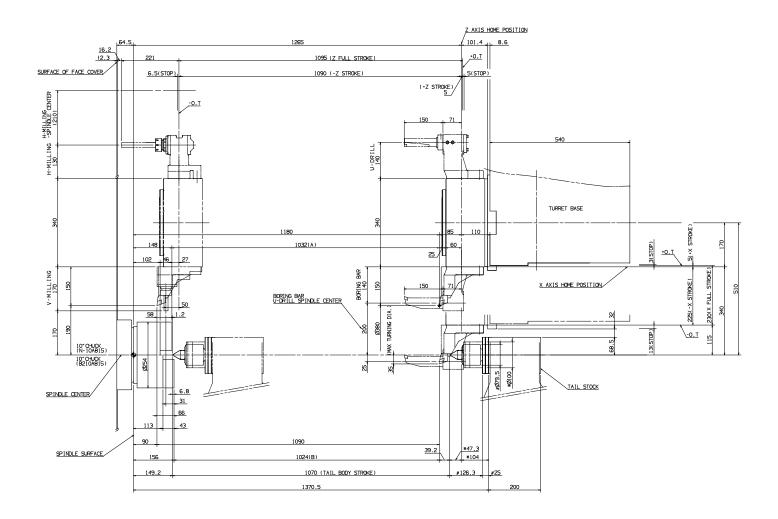
STROKE DIAGRAM — QUICK TURN 250M, 1000U BOLT-ON (mm)



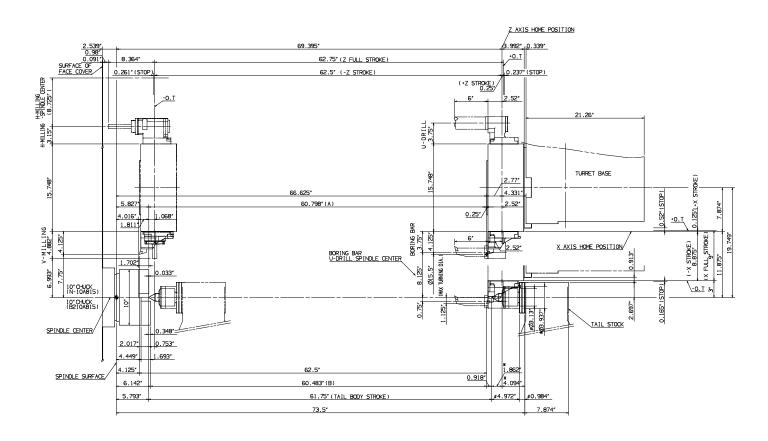
STROKE DIAGRAM — QUICK TURN 250M, 1000U VDI (inch)



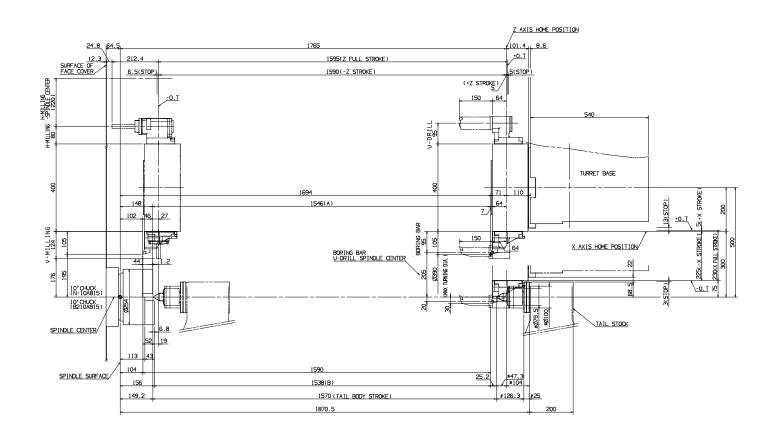
STROKE DIAGRAM – QUICK TURN 250M, 1000U VDI (mm)



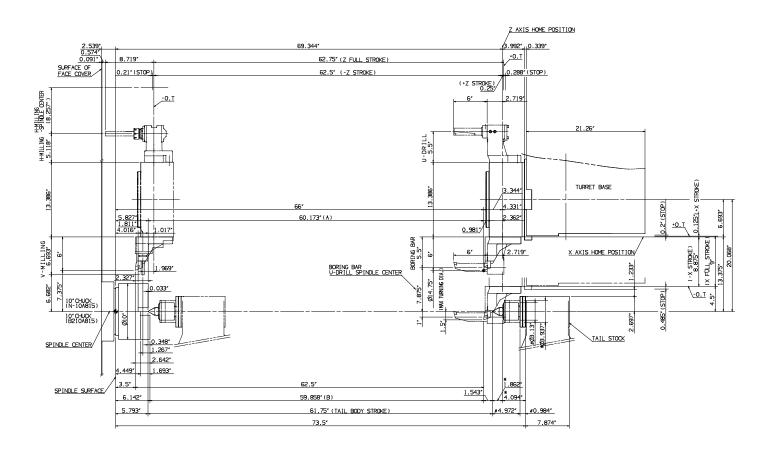
STROKE DIAGRAM — QUICK TURN 250M, 1500U BOLT-ON, 10" CHUCK (inch) (FOR REFERENCE ONLY)



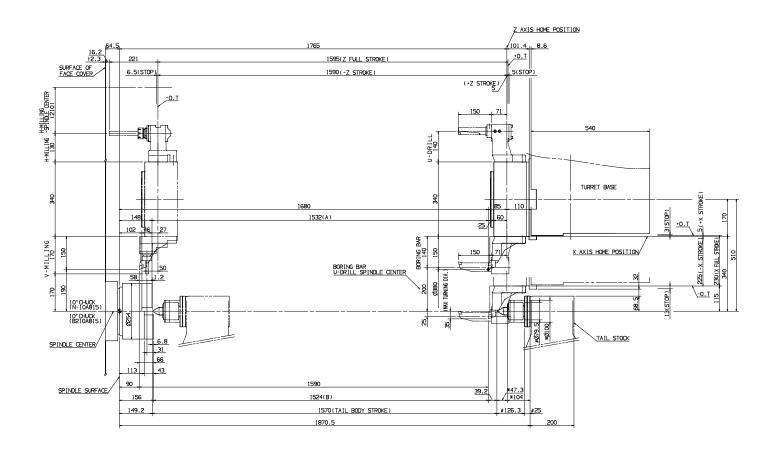
STROKE DIAGRAM — QUICK TURN 250M, 1500U BOLT-ON, 10" CHUCK (mm) (FOR REFERENCE ONLY)



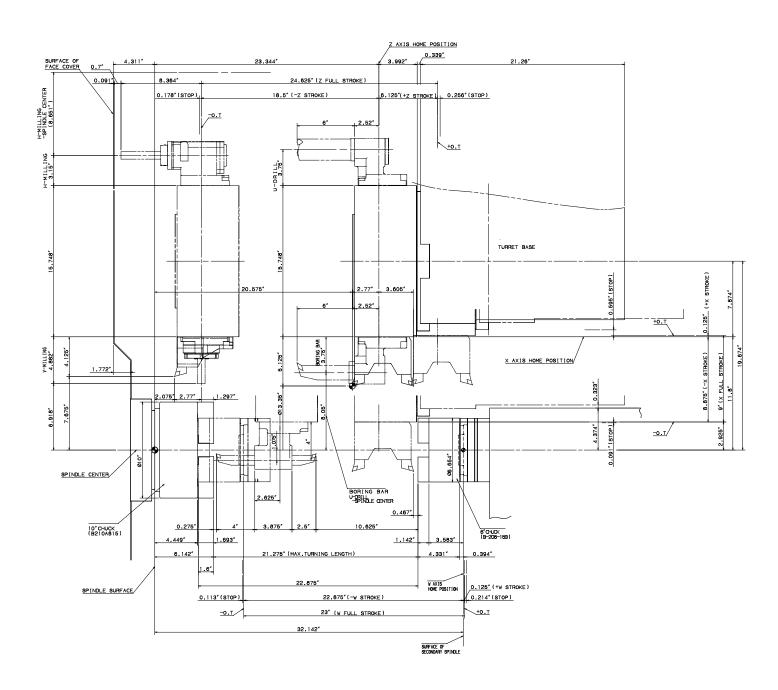
STROKE DIAGRAM - QUICK TURN 250M, 1500U VDI, 10" CHUCK (inch)



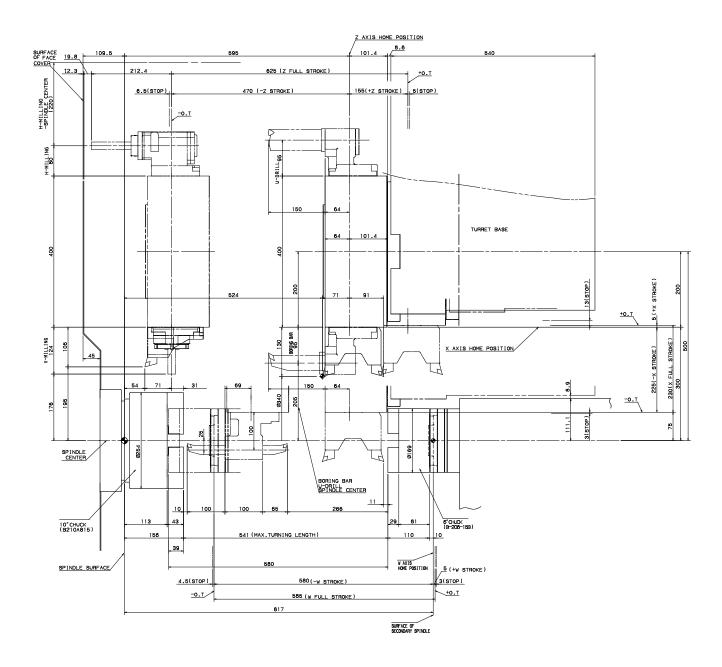
STROKE DIAGRAM — QUICK TURN 250M, 1500U VDI, 10" CHUCK (mm)



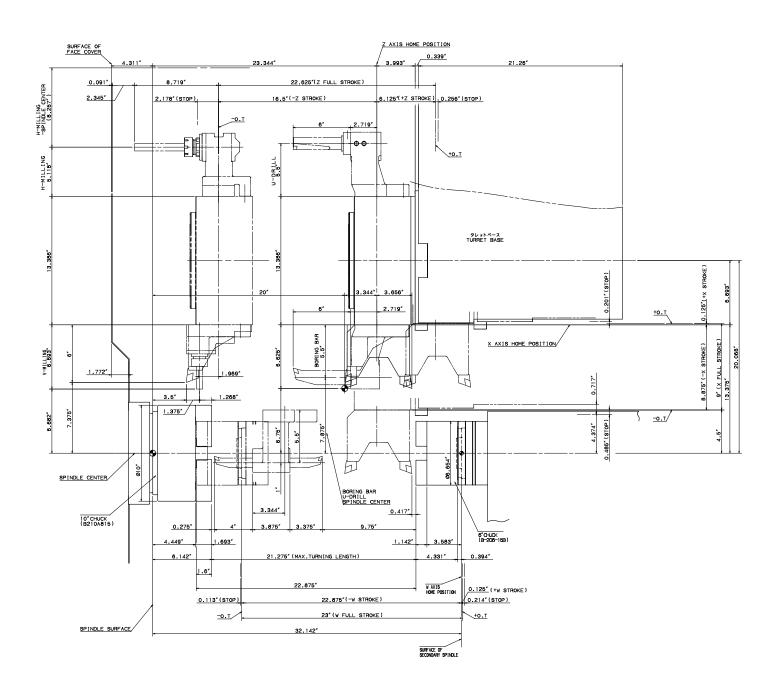
STROKE DIAGRAM — QUICK TURN 250MS, 500U BOLT-ON, 10" CHUCK (inch) (FOR REFERENCE ONLY)



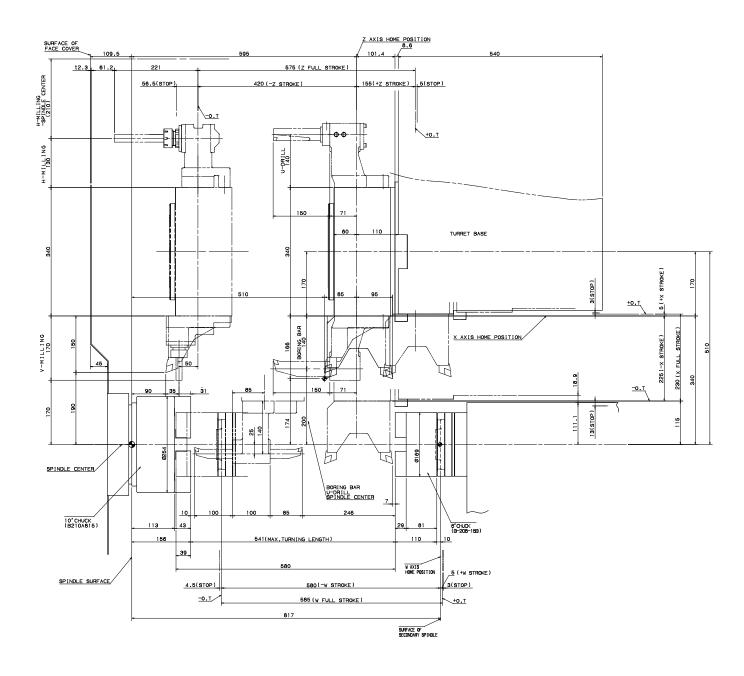
STROKE DIAGRAM — QUICK TURN 250MS, 500U BOLT-ON, 10" CHUCK (mm) (FOR REFERENCE ONLY)



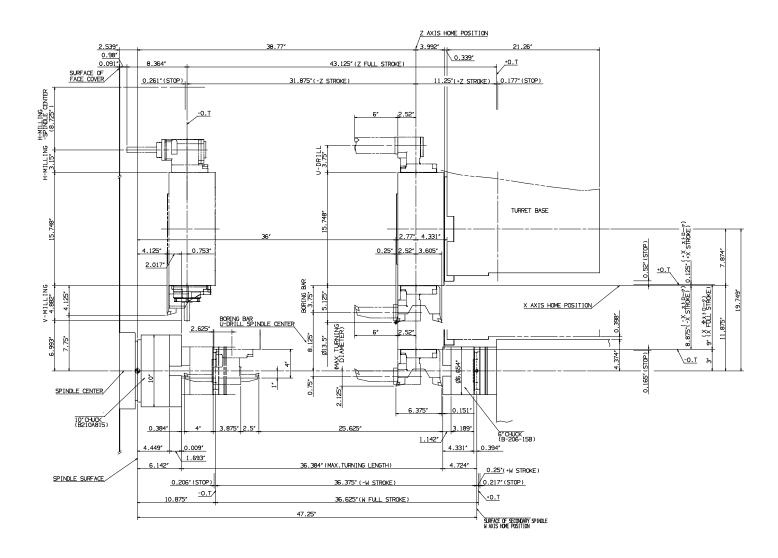
STROKE DIAGRAM — QUICK TURN 250MS, 500U VDI, 10" CHUCK (inch) (FOR REFERENCE ONLY)



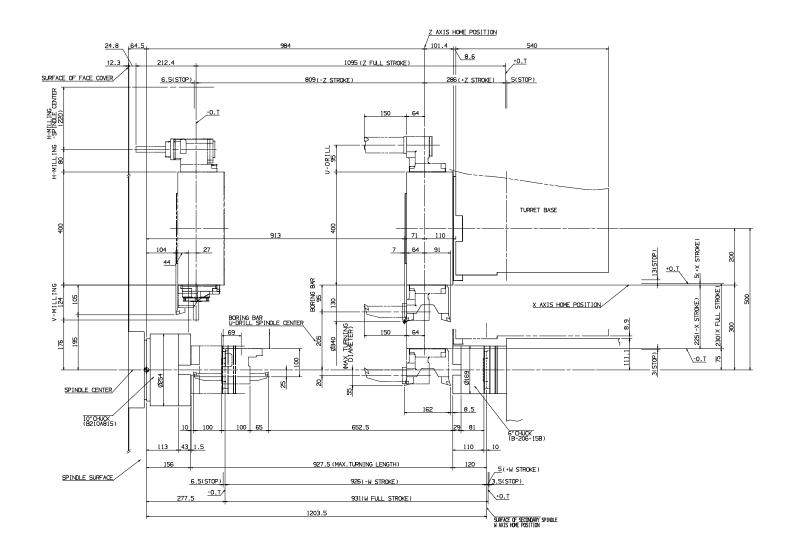
STROKE DIAGRAM — QUICK TURN 250MS, 500U VDI, 10" CHUCK (mm) (FOR REFERENCE ONLY)



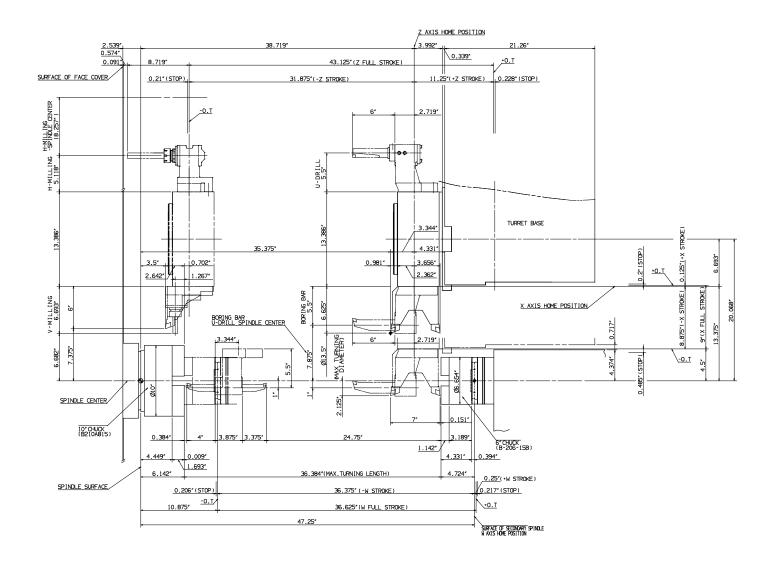
STROKE DIAGRAM — QUICK TURN 250MS, 1000U BOLT-ON (inch)



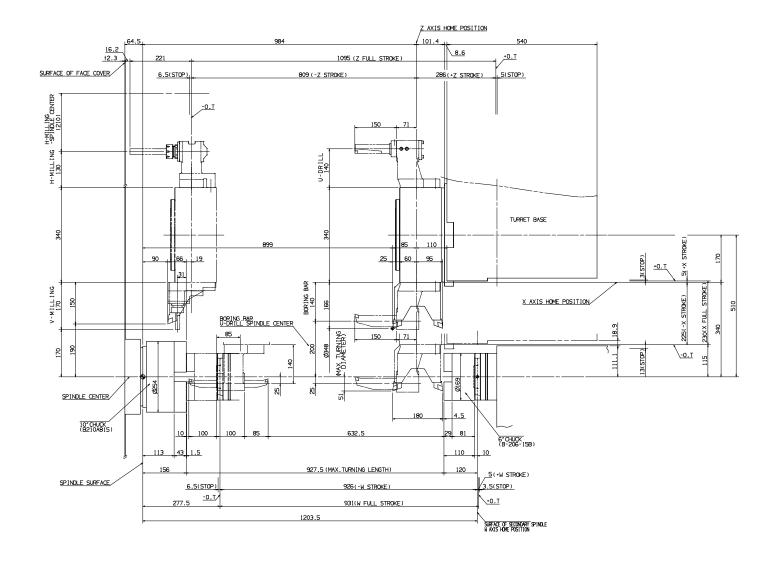
STROKE DIAGRAM — QUICK TURN 250MS, 1000U BOLT-ON (mm)



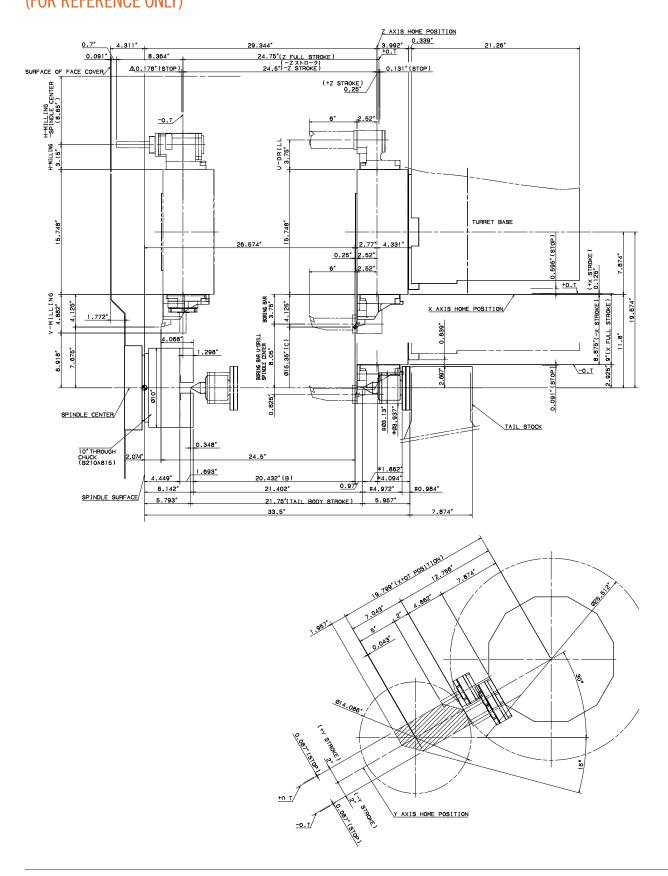
STROKE DIAGRAM — QUICK TURN 250MS, 1000U VDI (inch)



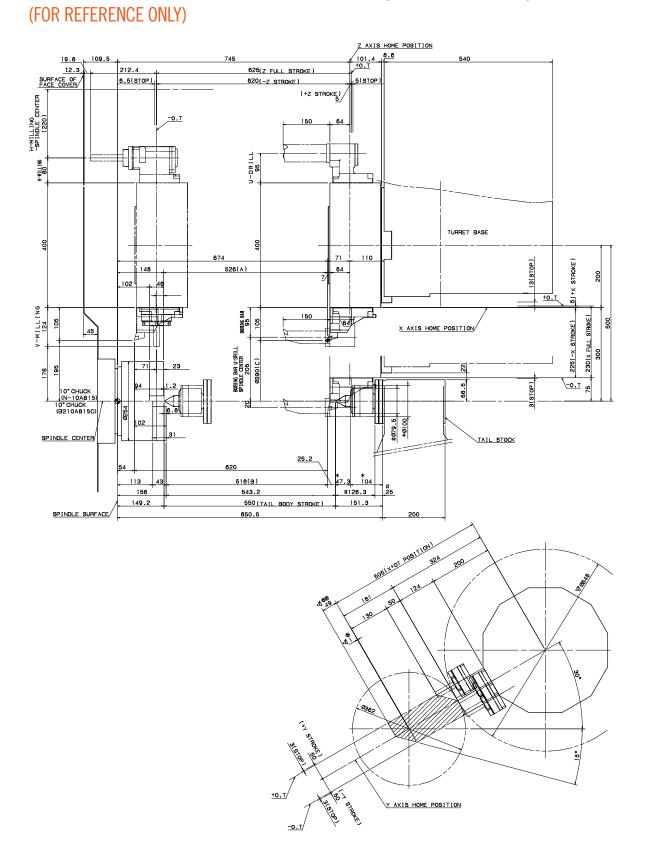
STROKE DIAGRAM – QUICK TURN 250MS, 1000U VDI (mm)



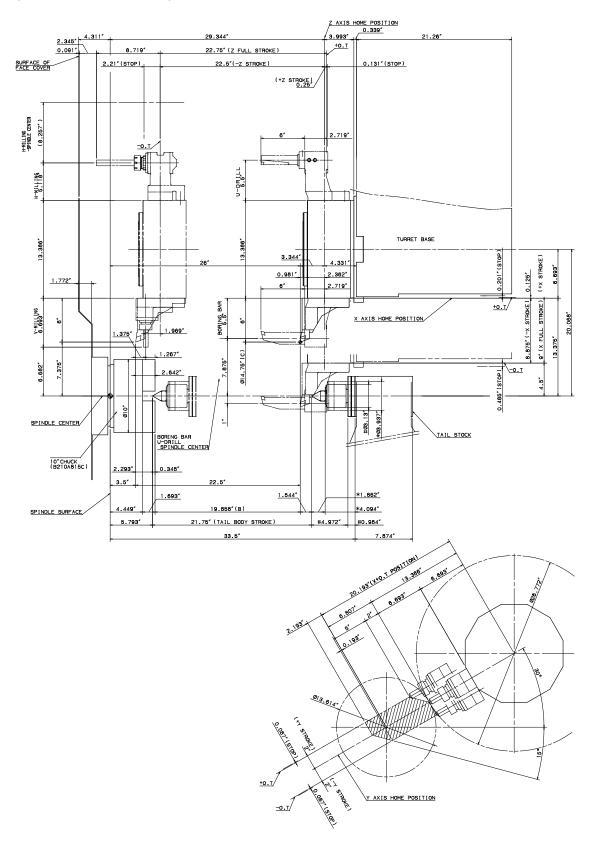
STROKE DIAGRAM — QUICK TURN 250MY, 500U BOLT-ON, 10" CHUCK (inch) (FOR REFERENCE ONLY)



STROKE DIAGRAM — QUICK TURN 250MY, 500U BOLT-ON, 10" CHUCK (mm)



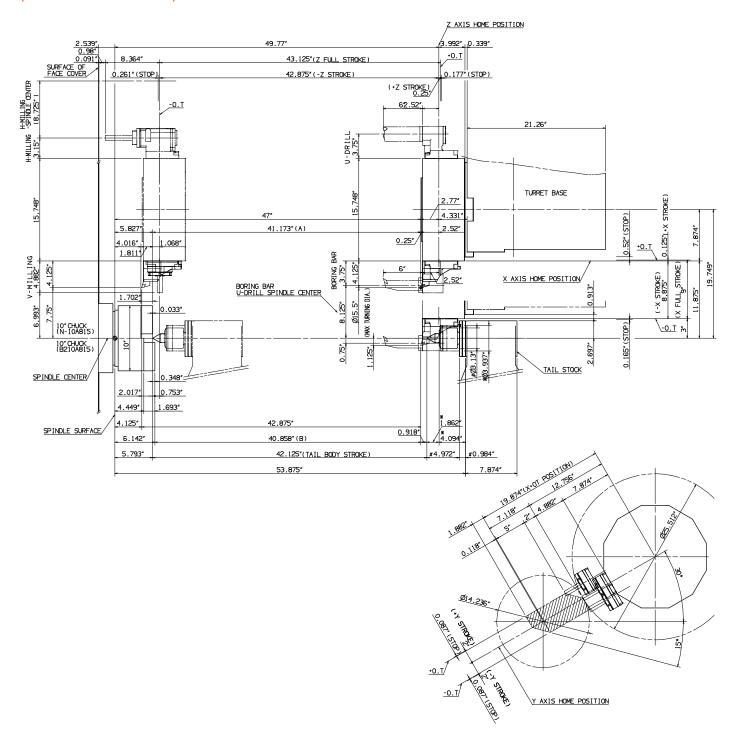
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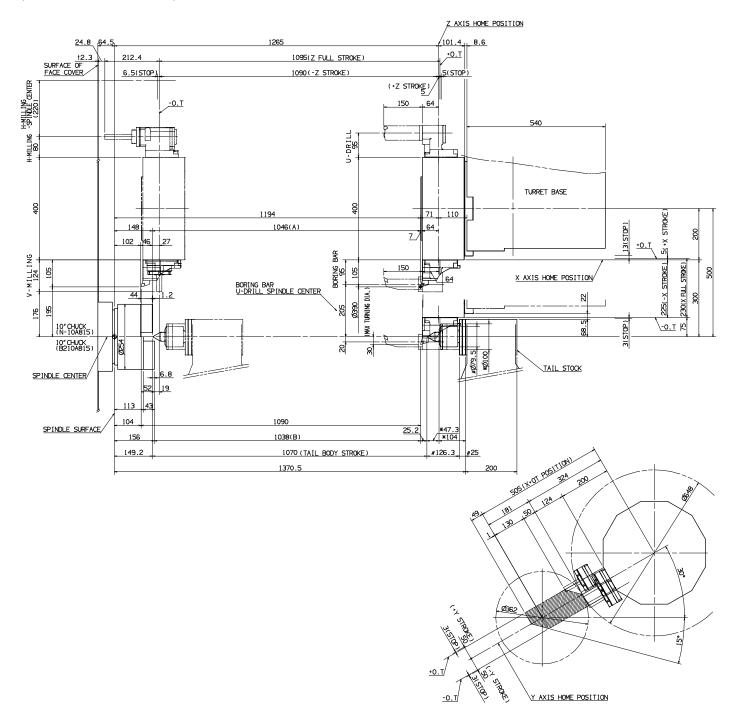
STROKE DIAGRAM — QUICK TURN 250MY, 500U VDI, 10" CHUCK (mm) (FOR REFERENCE ONLY)

Z AXIS HOME POSITION 101.4 61.2 t2.3 +0.T SURFACE OF FACE COVER 56.5(STOP) 570(-Z STROKE) 5(STOP TURRET BASE 110 3(ST0P) 148 512(A) 25 +0.T V-MILLING BORING F :5 -o.T/ SPINDLE CENTER/ TAIL STOCK 39.2 504(B) *104 SPINDLE SURFACE, Asisix to Rosition 340 115

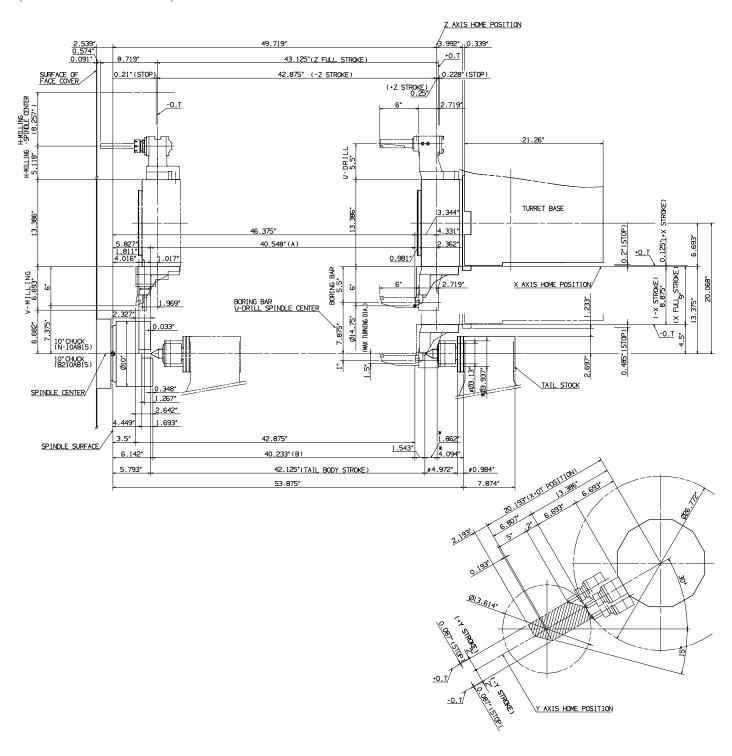
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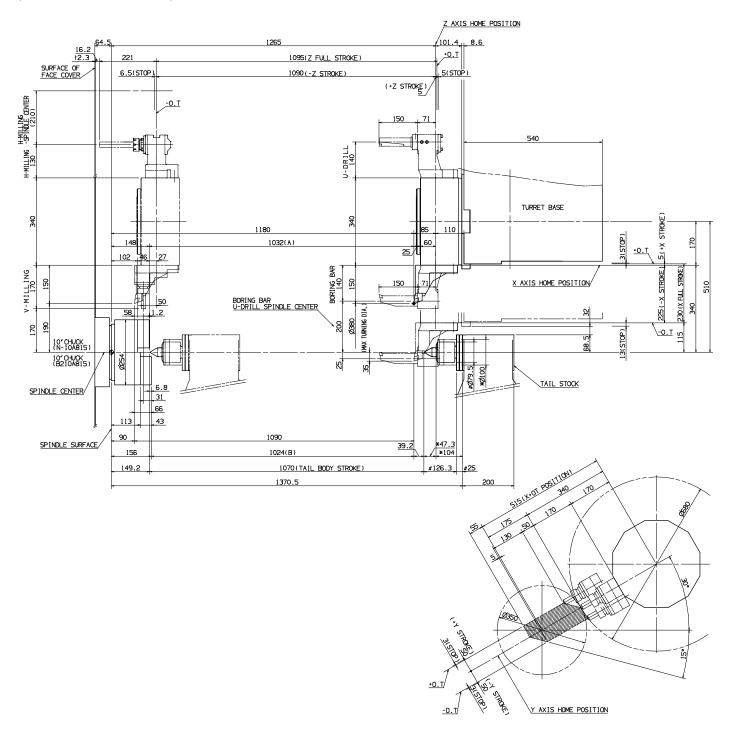
STROKE DIAGRAM — QUICK TURN 250MY, 1000U BOLT-ON (mm)



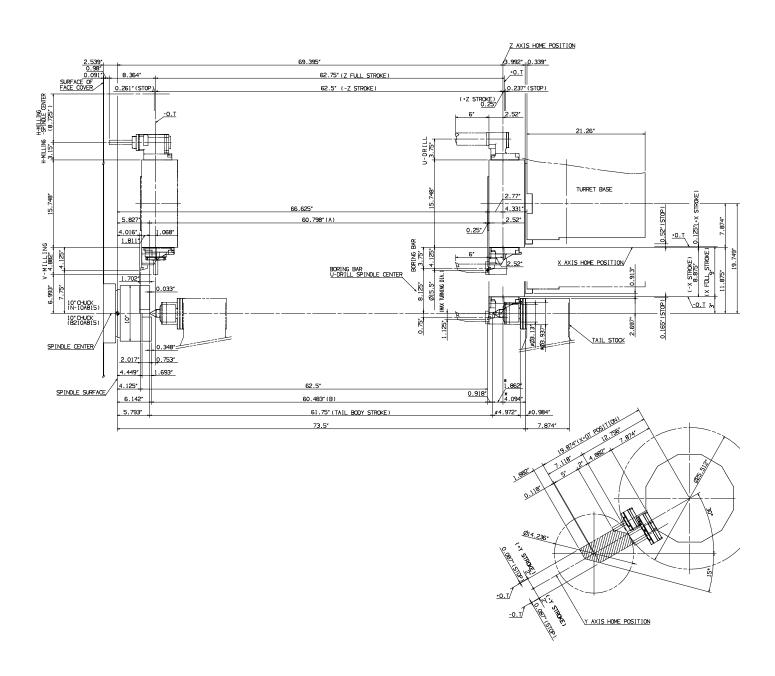
STROKE DIAGRAM — QUICK TURN 250MY, 1000U VDI (inch)



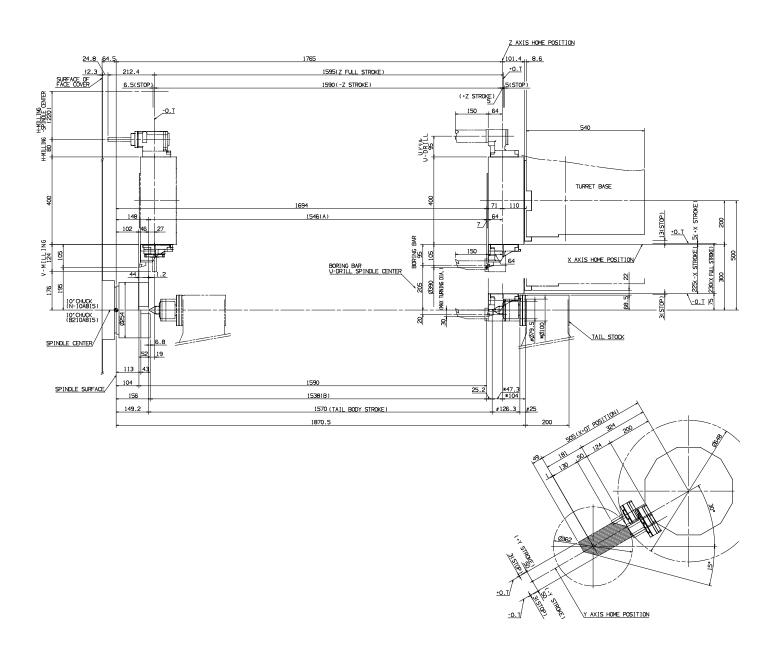
STROKE DIAGRAM — QUICK TURN 250MY, 1000U VDI (mm)



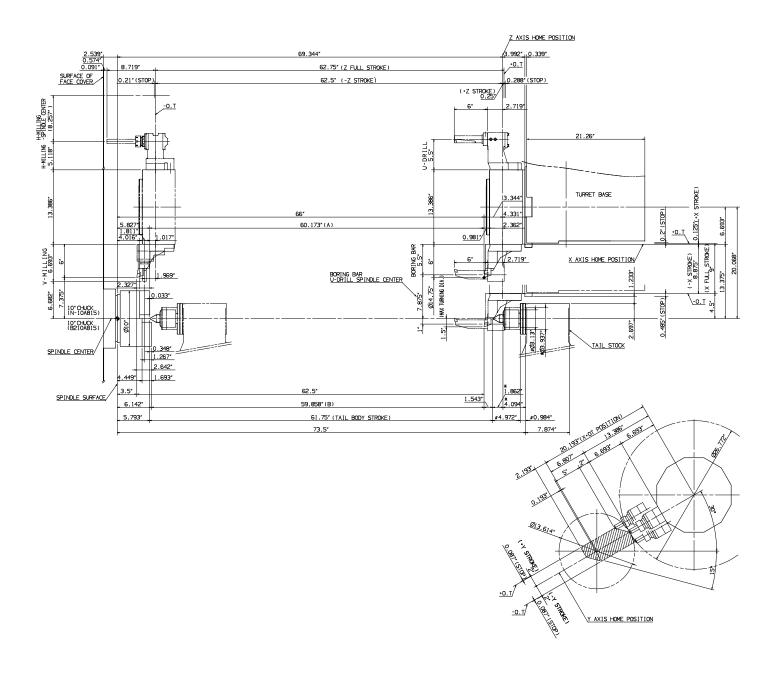
STROKE DIAGRAM — QUICK TURN 250MY, 1500U BOLT-ON, 10" CHUCK (inch) (FOR REFERENCE ONLY)



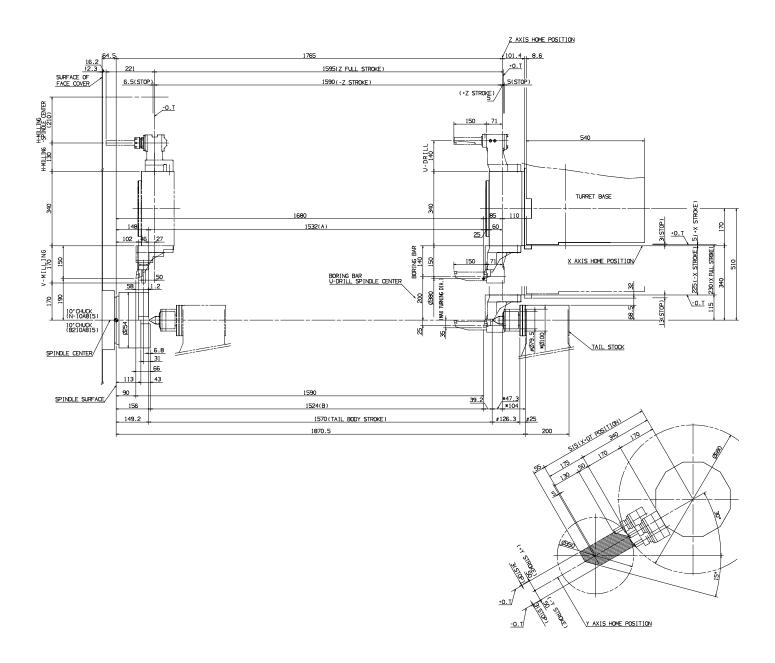
STROKE DIAGRAM — QUICK TURN 250MY, 1500U BOLT-ON, 10" CHUCK (mm) (FOR REFERENCE ONLY)



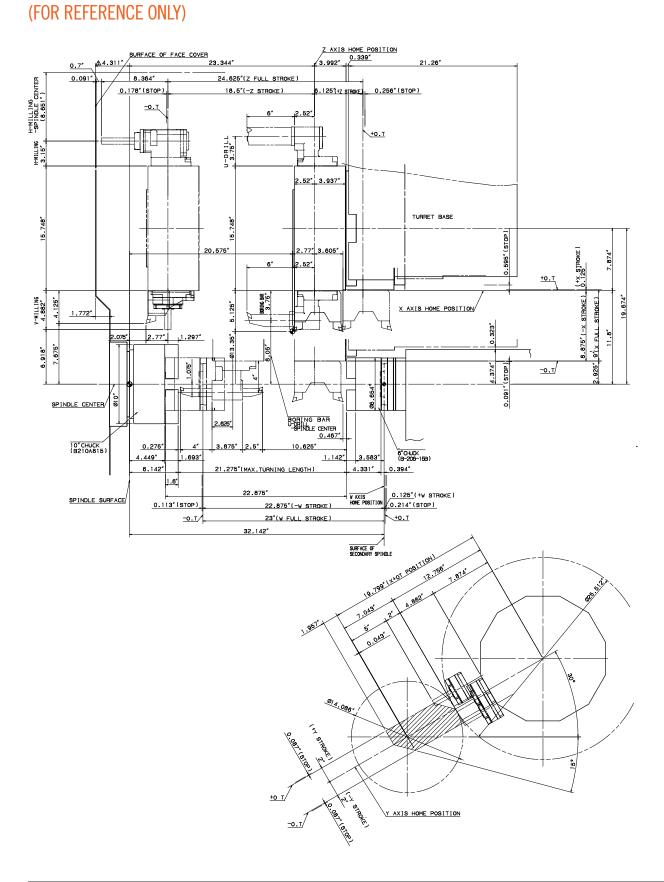
STROKE DIAGRAM - QUICK TURN 250MY, 1500U VDI, 10" CHUCK (inch)



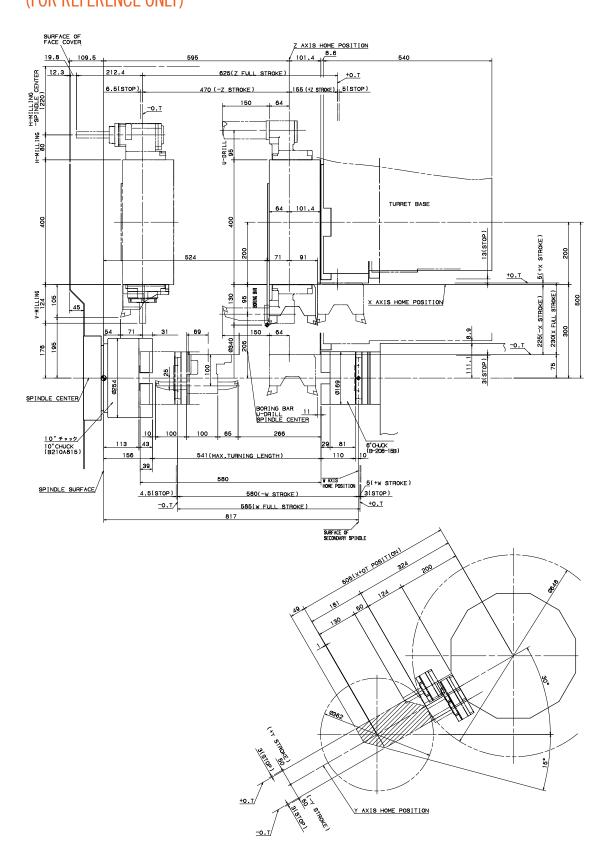
STROKE DIAGRAM — QUICK TURN 250MY, 1500U VDI, 10" CHUCK (mm)



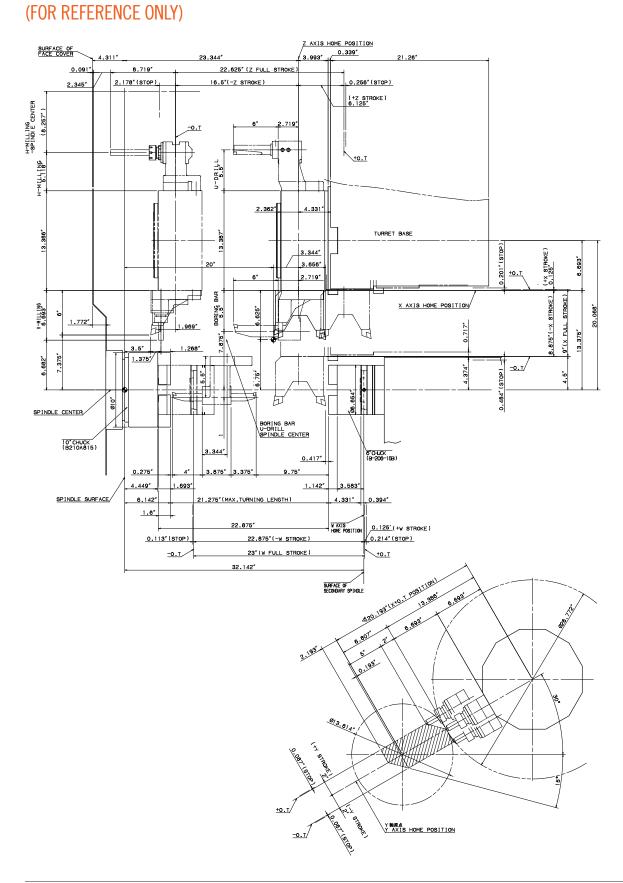
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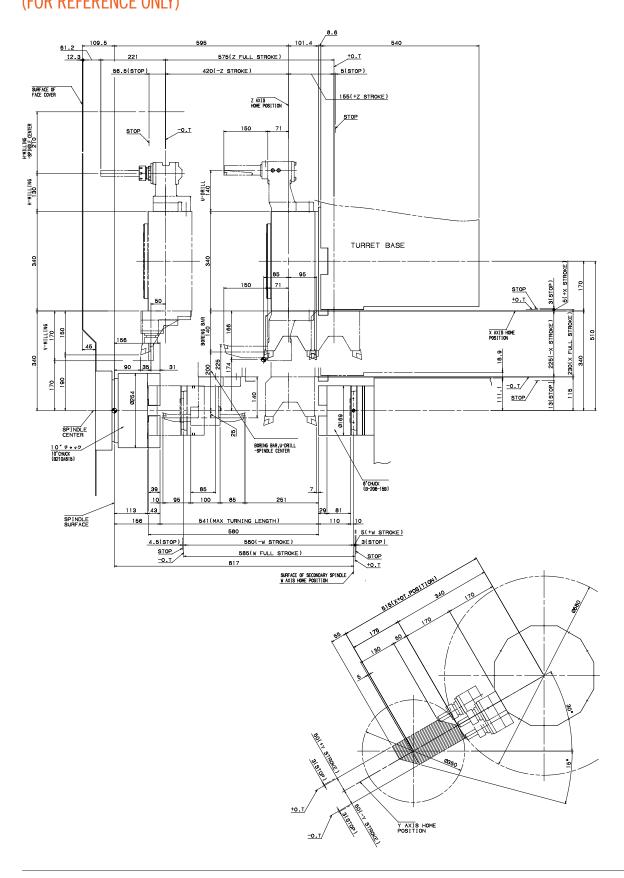
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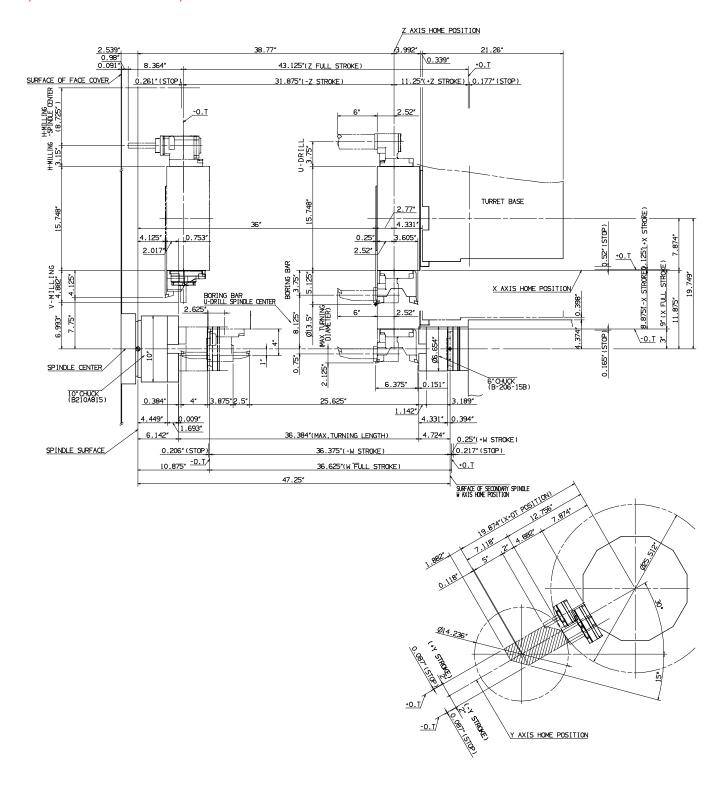
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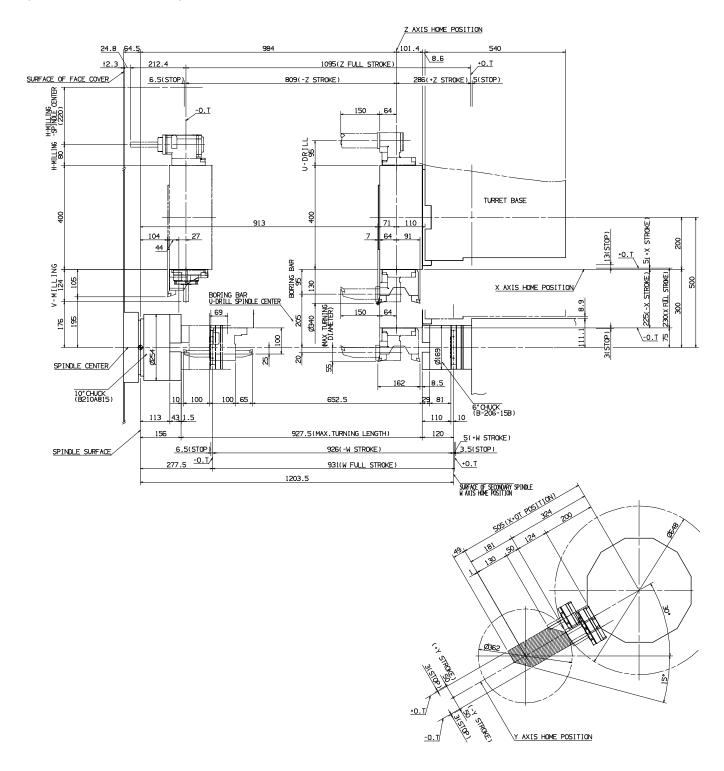
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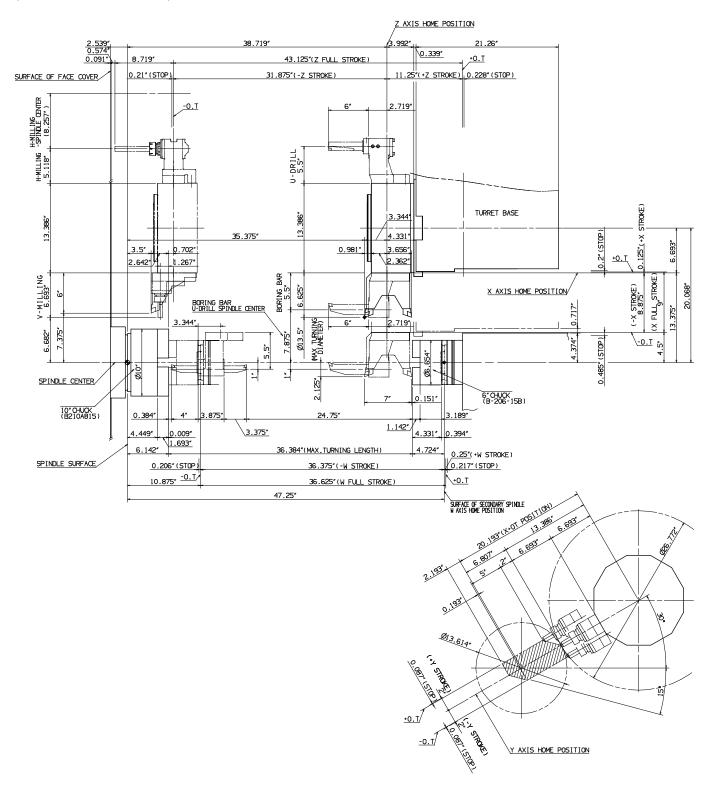
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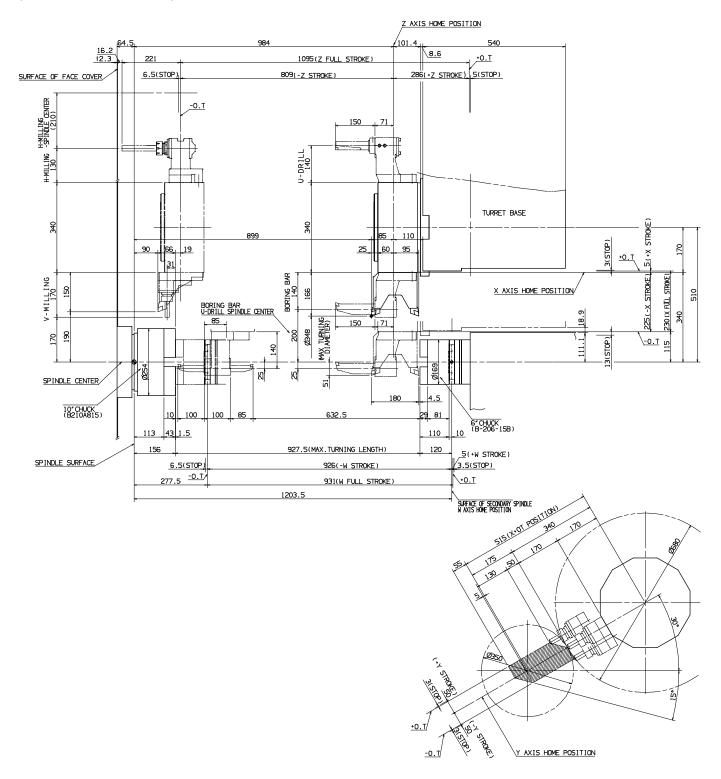
STROKE DIAGRAM — QUICK TURN 250MSY, 1000U BOLT-ON (mm)



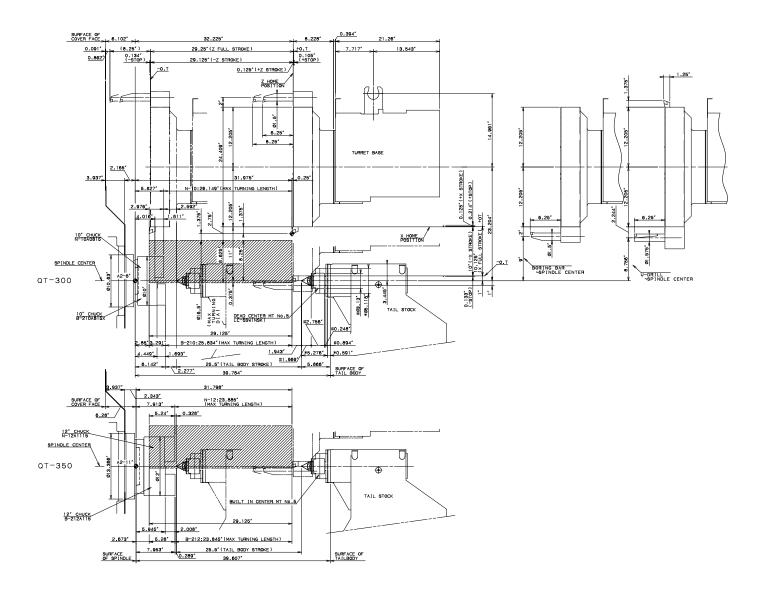
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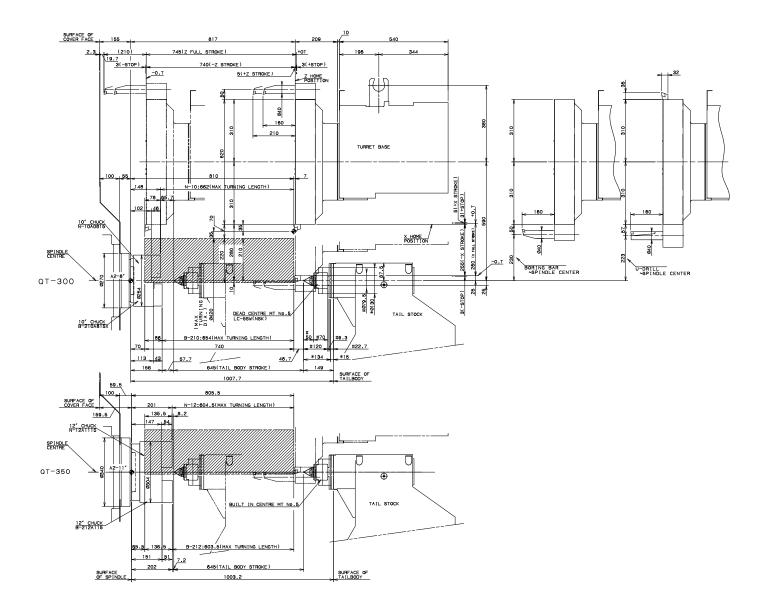
STROKE DIAGRAM — QUICK TURN 250MSY, 1000U VDI (mm)



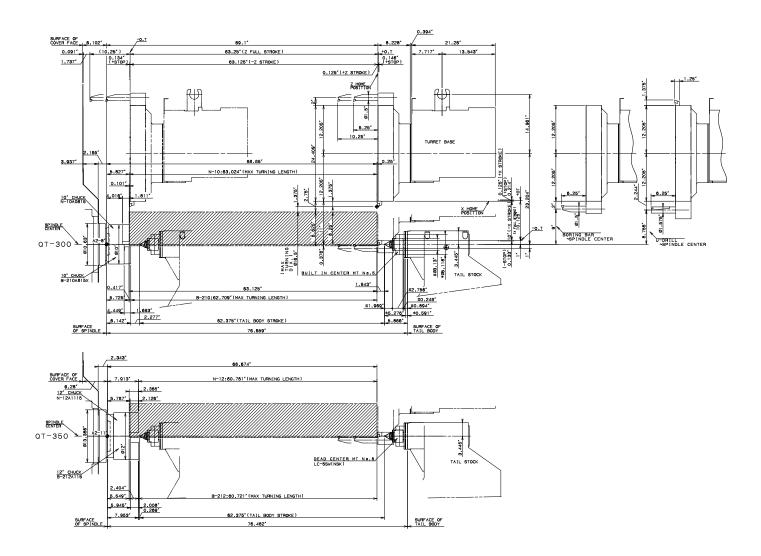
STROKE DIAGRAM — QUICK TURN 350, 650U (inch)



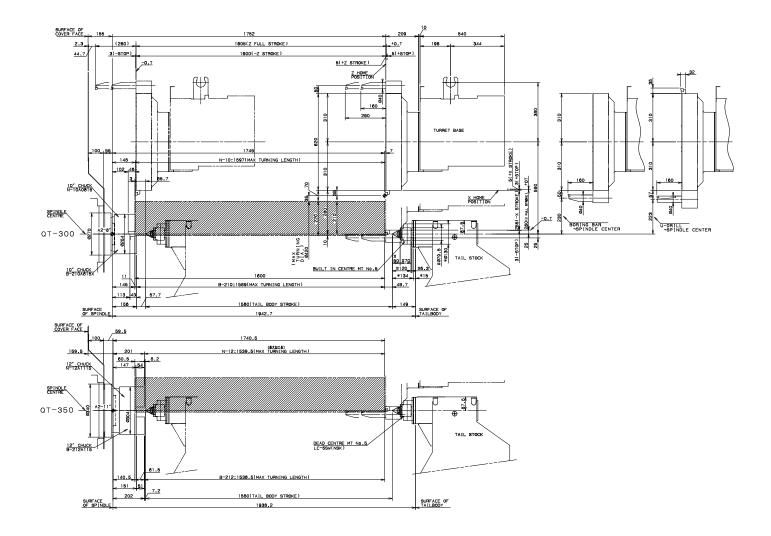
STROKE DIAGRAM — QUICK TURN 350, 650U (mm)



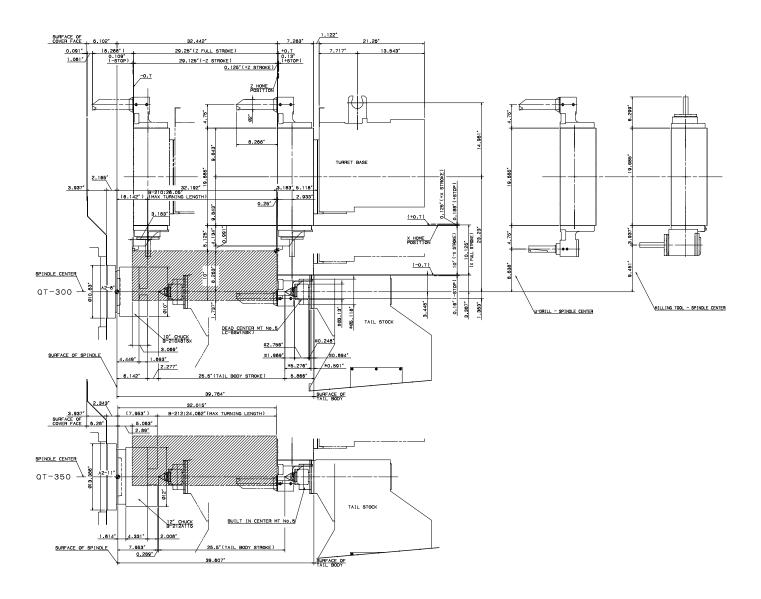
STROKE DIAGRAM — QUICK TURN 350, 1500U (inch)



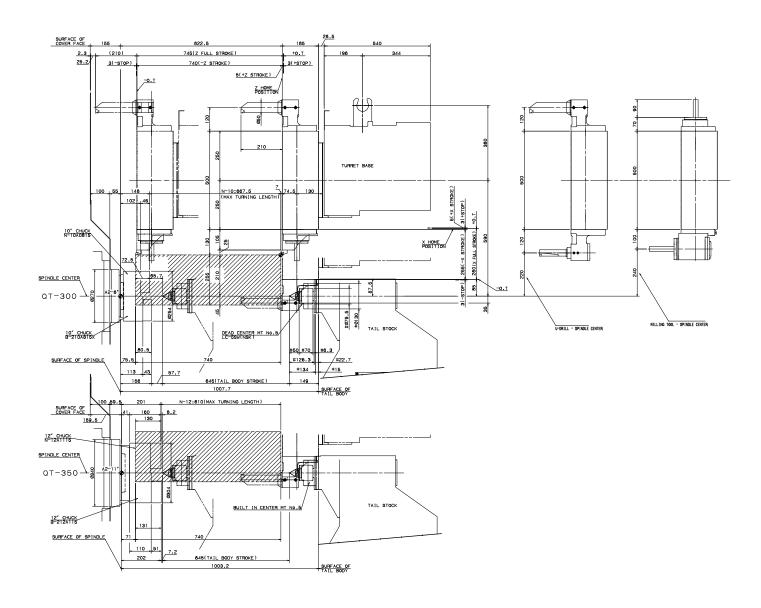
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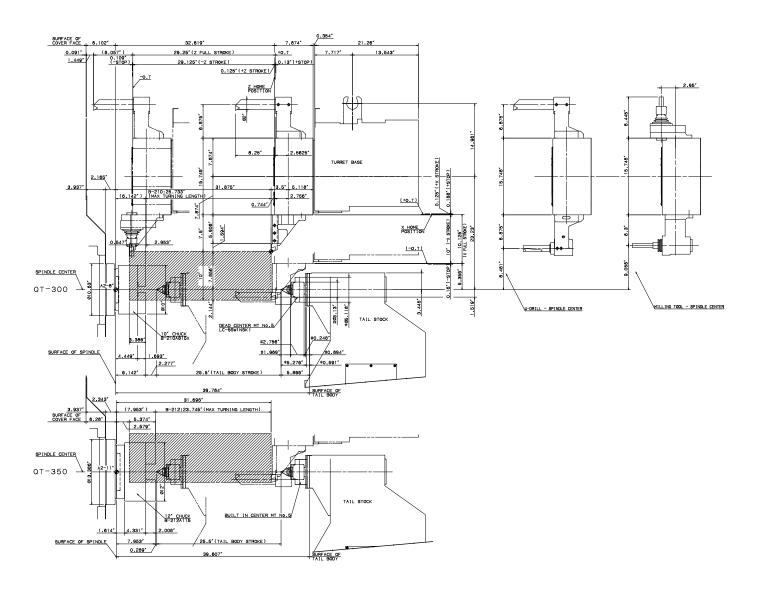
STROKE DIAGRAM — QUICK TURN 350M, 650U BOLT-ON (inch)



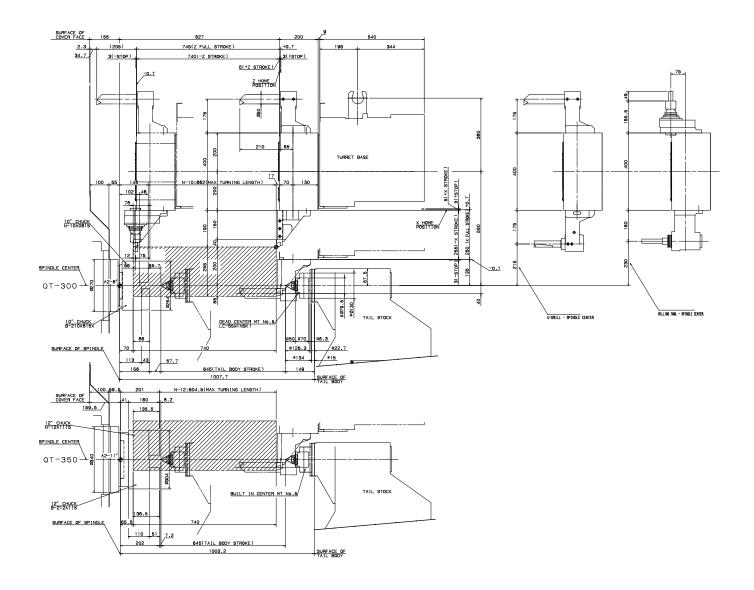
STROKE DIAGRAM — QUICK TURN 350M, 650U BOLT-ON (mm)



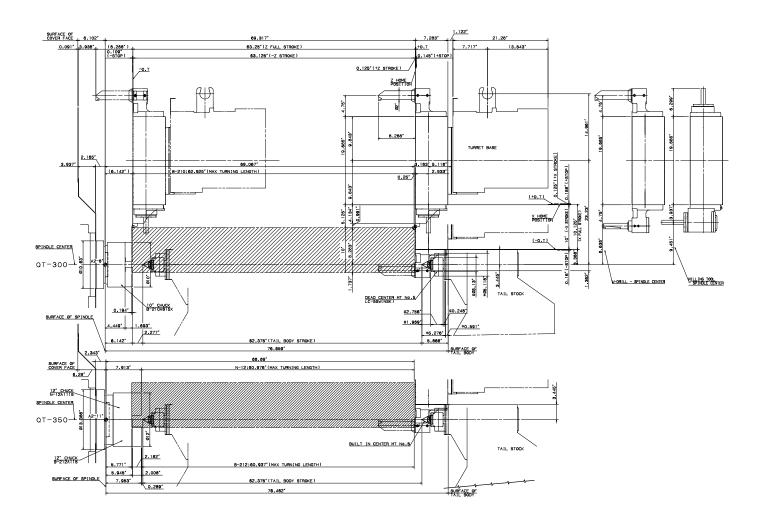
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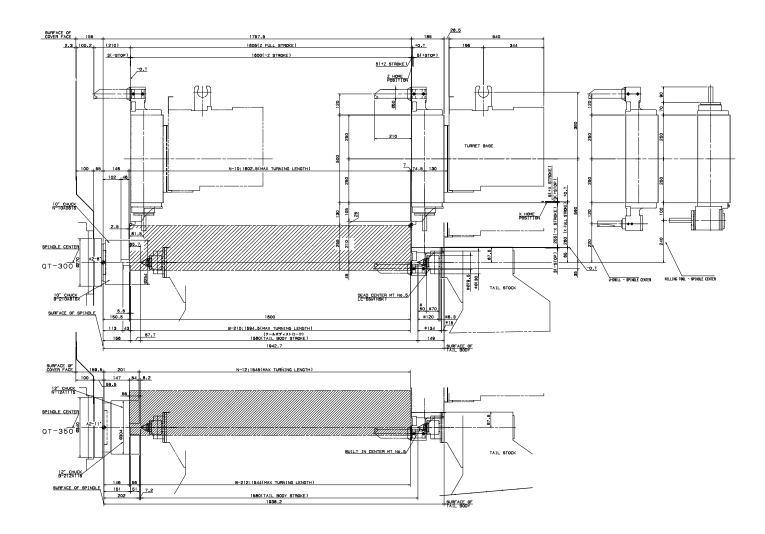
STROKE DIAGRAM — QUICK TURN 350M, 650U VDI (mm)



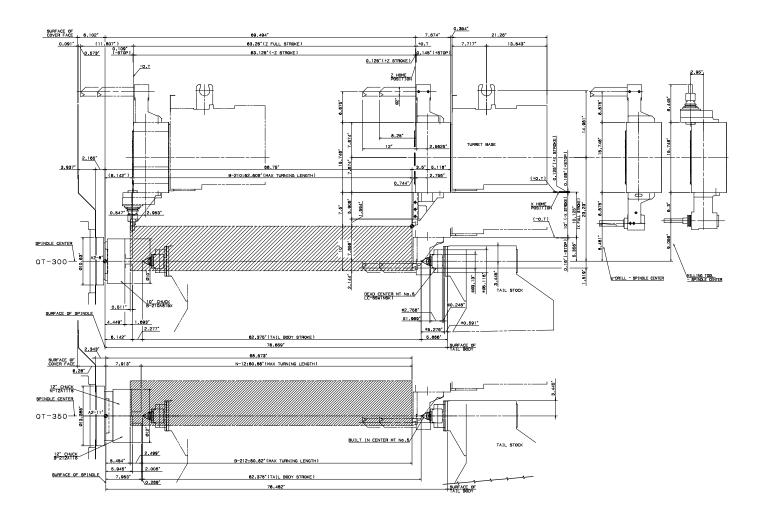
STROKE DIAGRAM — QUICK TURN 350M, 1500U BOLT-ON (inch)



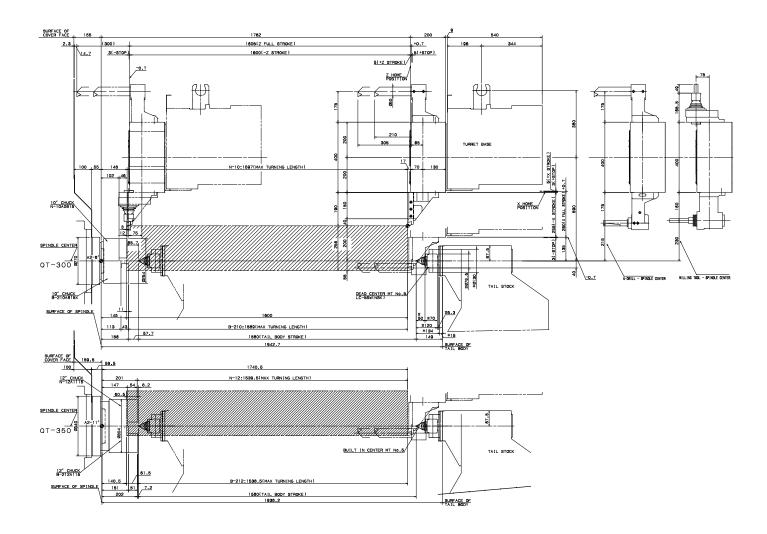
STROKE DIAGRAM — QUICK TURN 350M, 1500U BOLT-ON (mm)



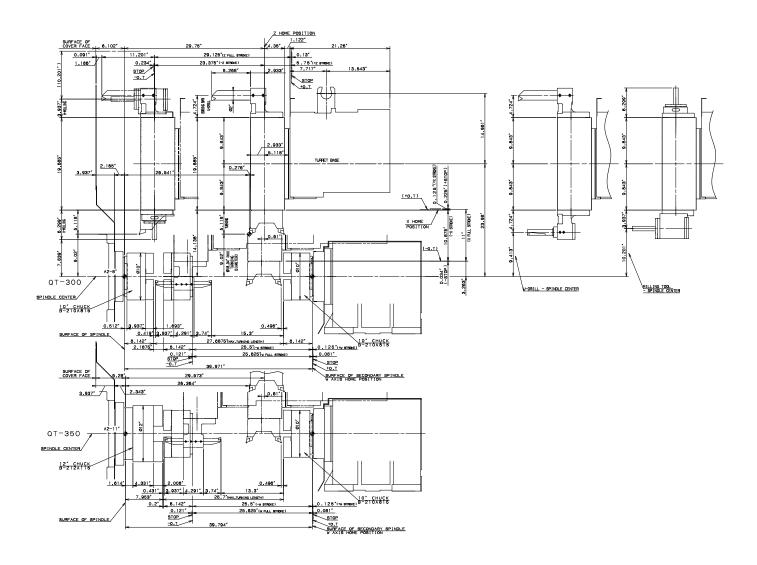
STROKE DIAGRAM — QUICK TURN 350M, 1500U VDI (inch)



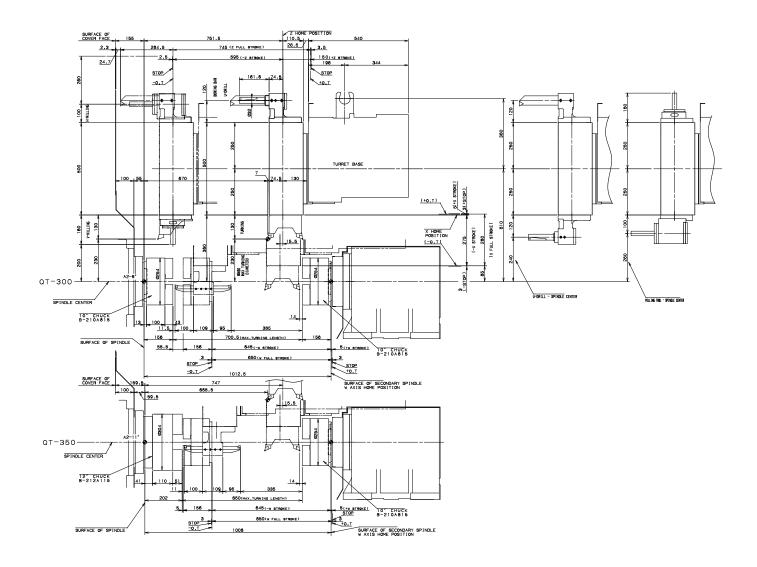
STROKE DIAGRAM — QUICK TURN 350M, 1500U VDI (mm)



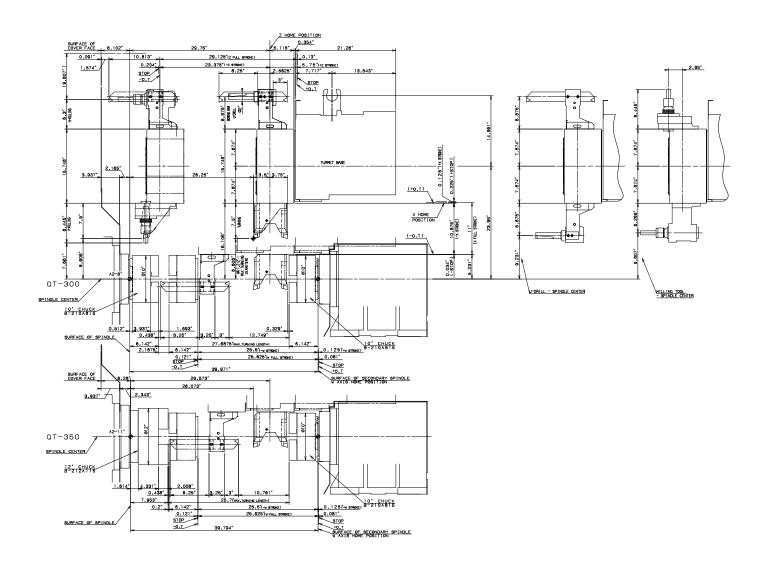
STROKE DIAGRAM — QUICK TURN 350MS, 650U BOLT-ON (inch)



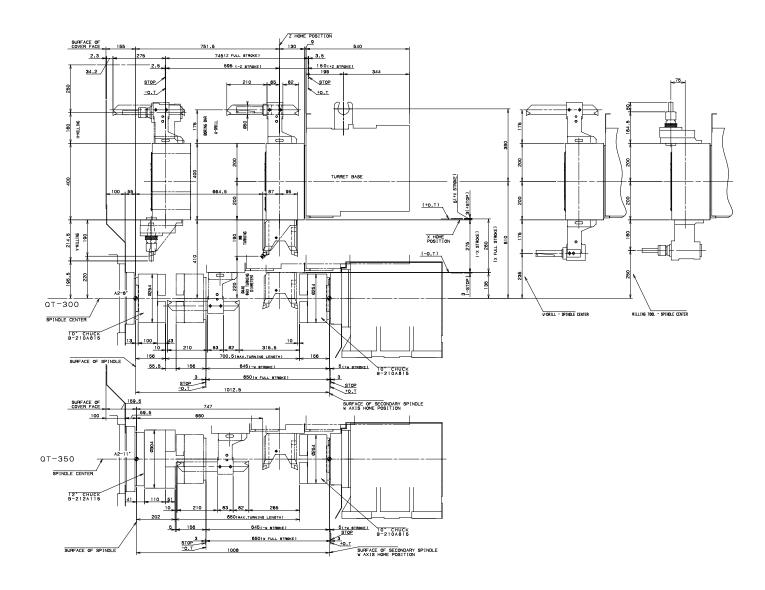
STROKE DIAGRAM — QUICK TURN 350MS, 650U BOLT-ON (mm)



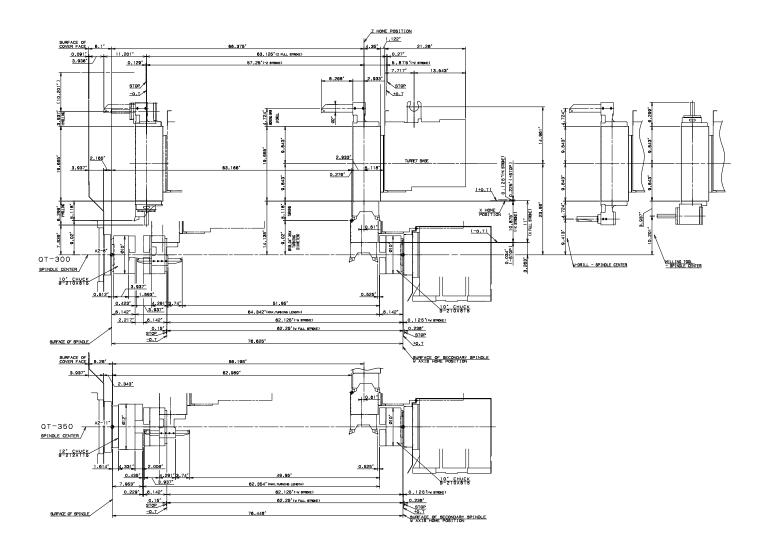
STROKE DIAGRAM — QUICK TURN 350MS, 650U VDI (inch)



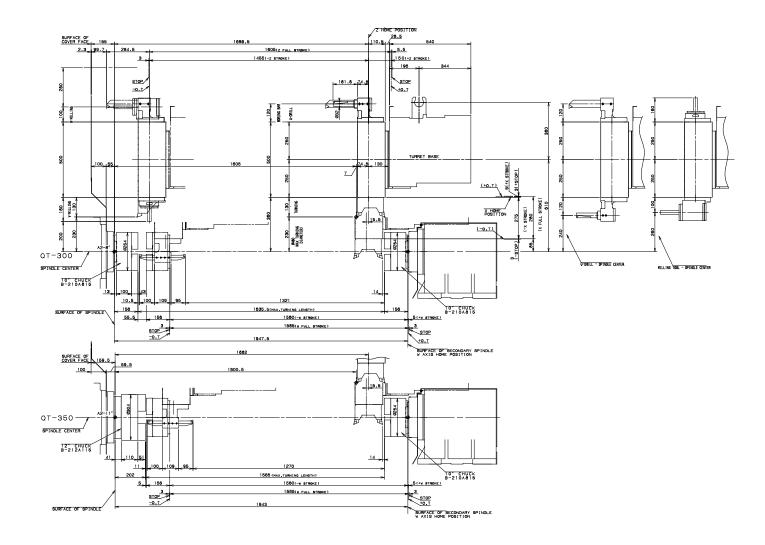
STROKE DIAGRAM — QUICK TURN 350MS, 650U VDI (mm)



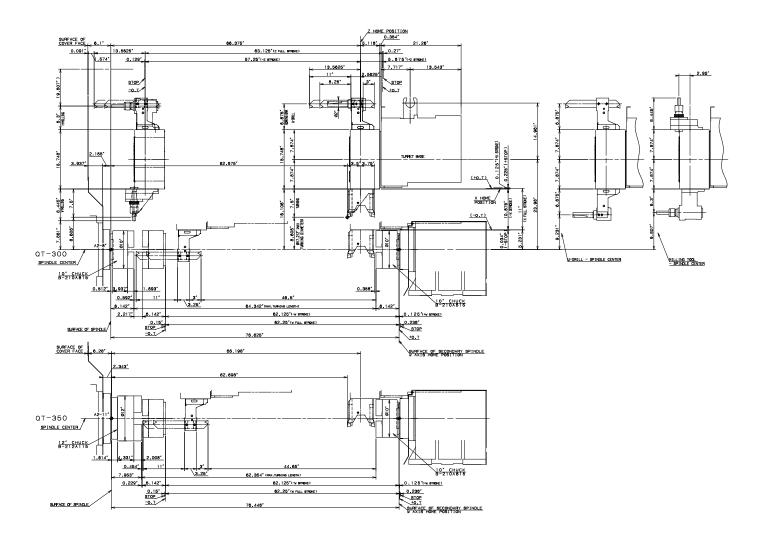
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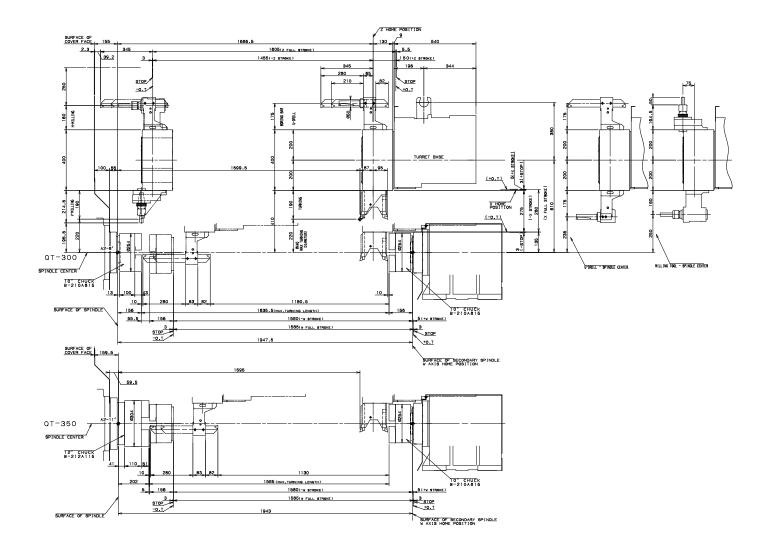
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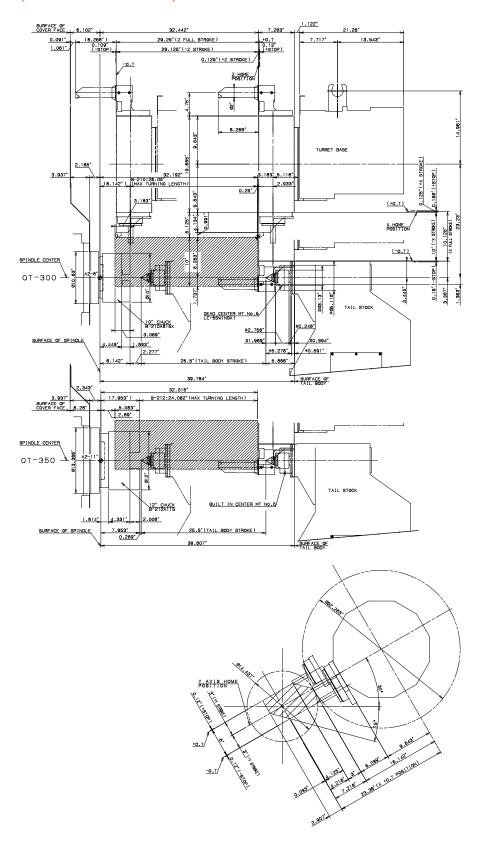
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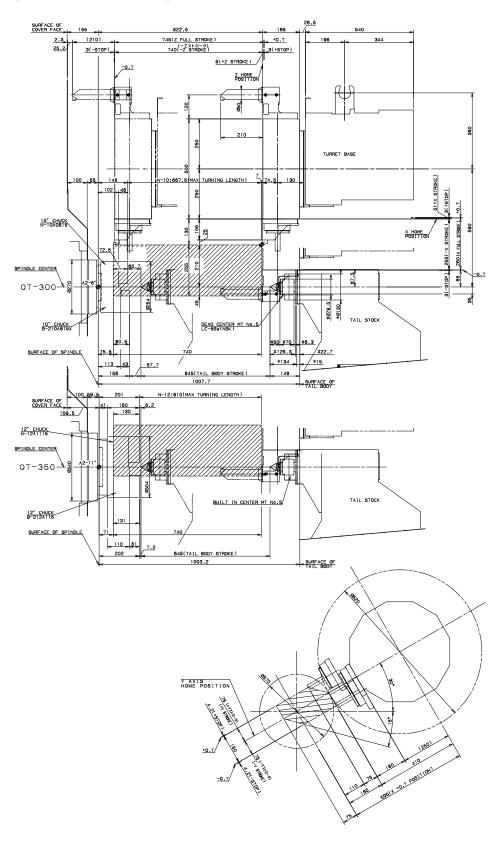
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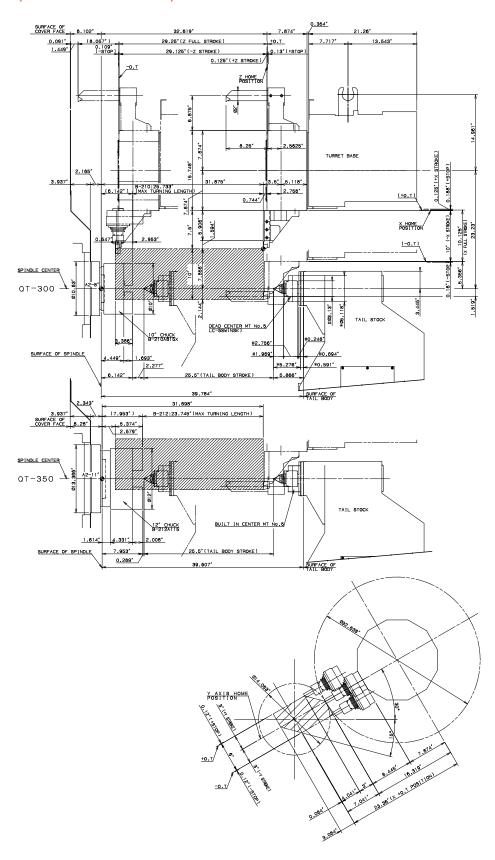
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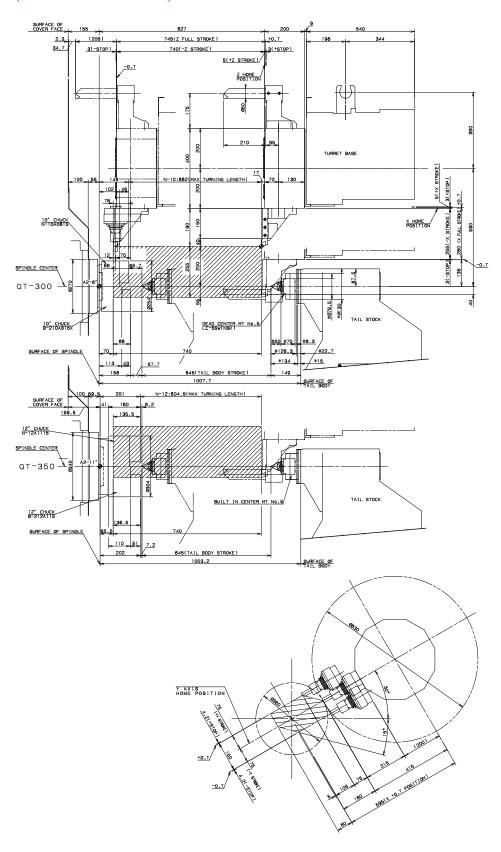
STROKE DIAGRAM — QUICK TURN 350MY, 650U BOLT-ON (mm)



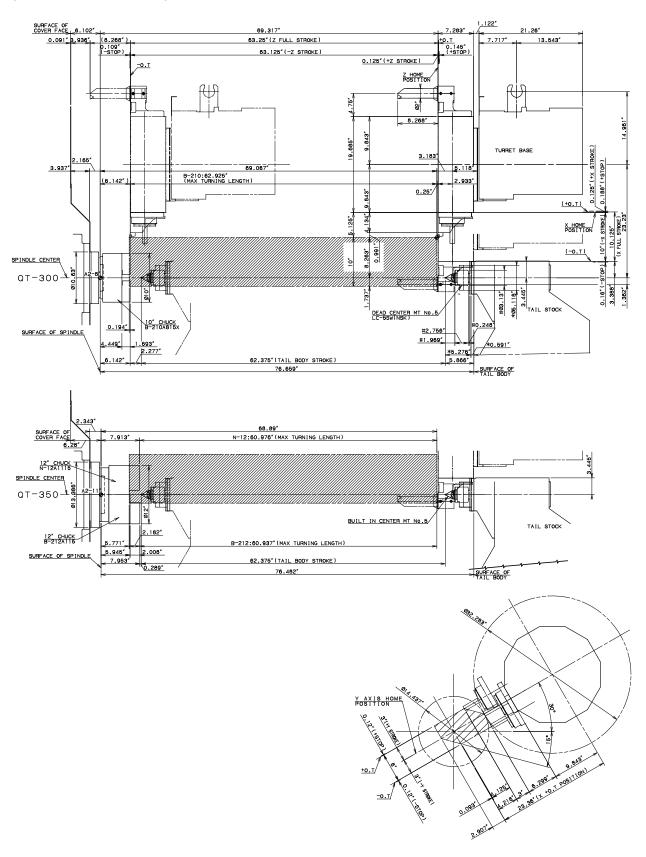
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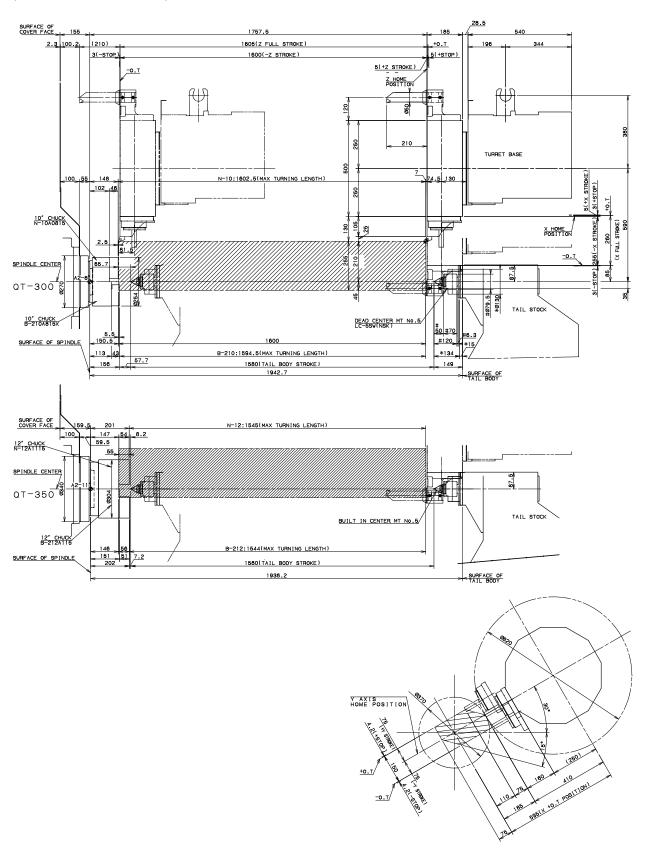
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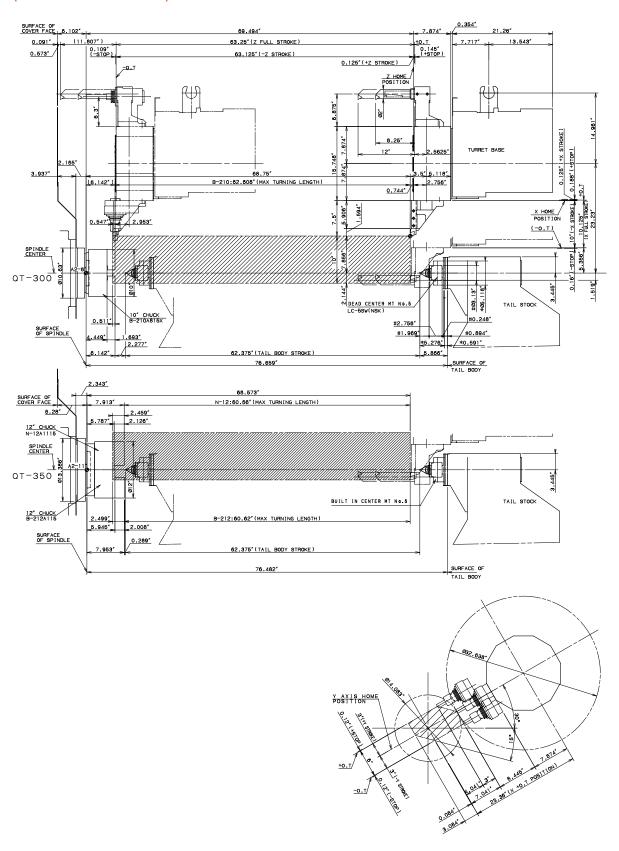
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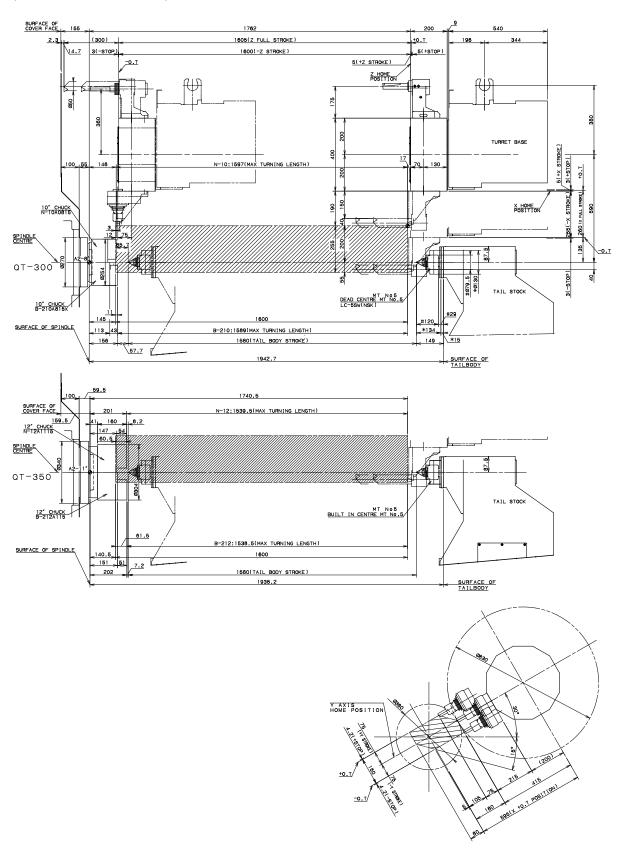
STROKE DIAGRAM — QUICK TURN 350MY, 1500U BOLT-ON (mm)



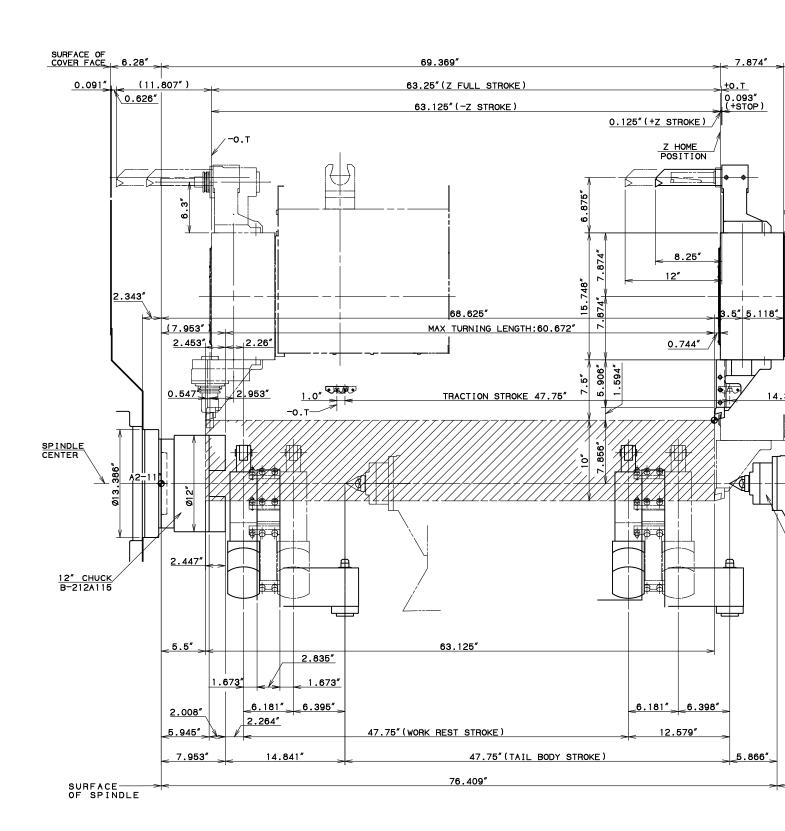
STROKE DIAGRAM — QUICK TURN 350MY, 1500U VDI (inch)



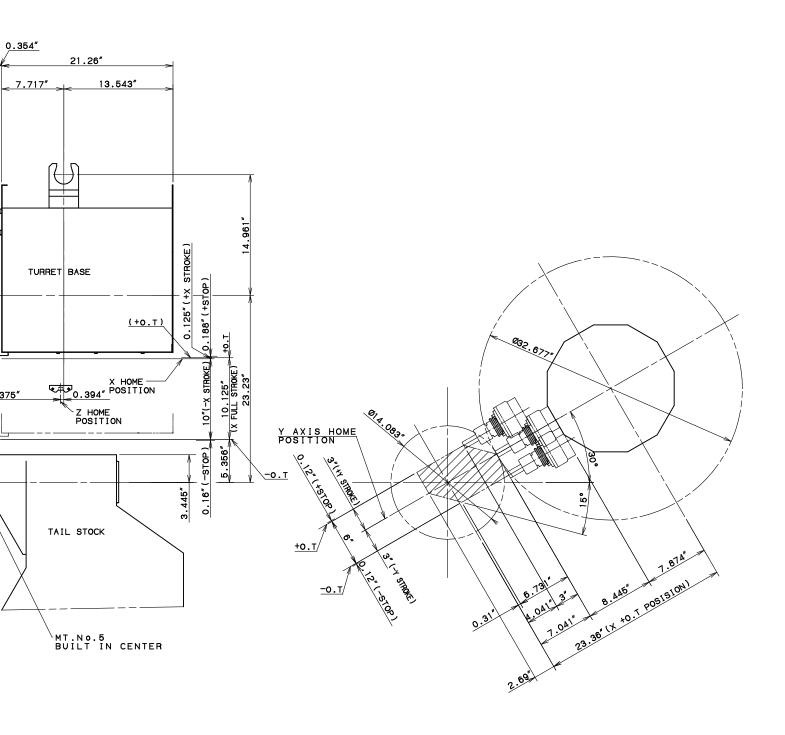
STROKE DIAGRAM — QUICK TURN 350MY, 1500U VDI (mm)



STROKE DIAGRAM — QUICK TURN 350, 1500U VDI WITH WORK REST (inch) (FOR REFERENCE ONLY)

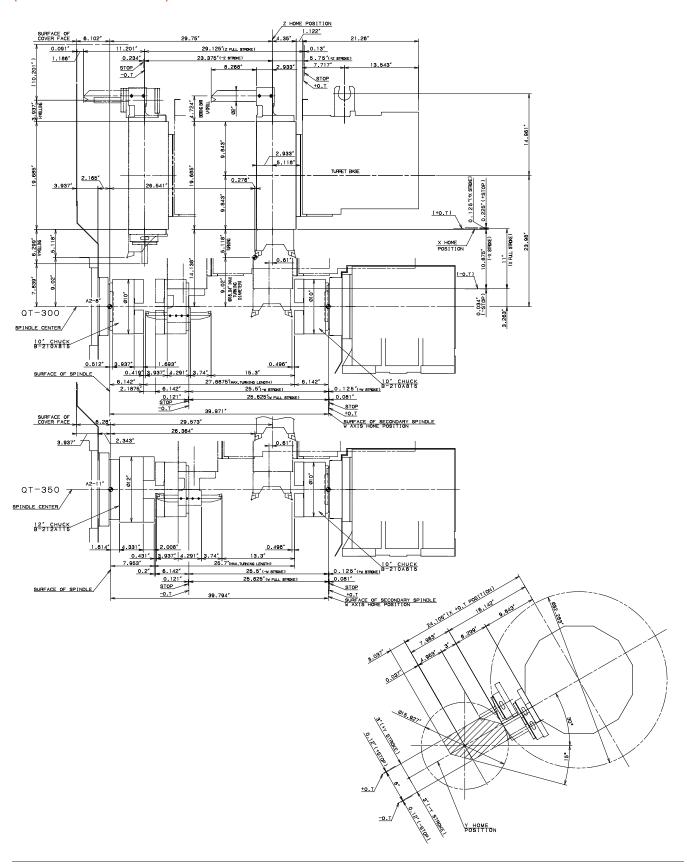


STROKE DIAGRAM — QUICK TURN 350, 1500U VDI WITH WORK REST (inch) (FOR REFERENCE ONLY)

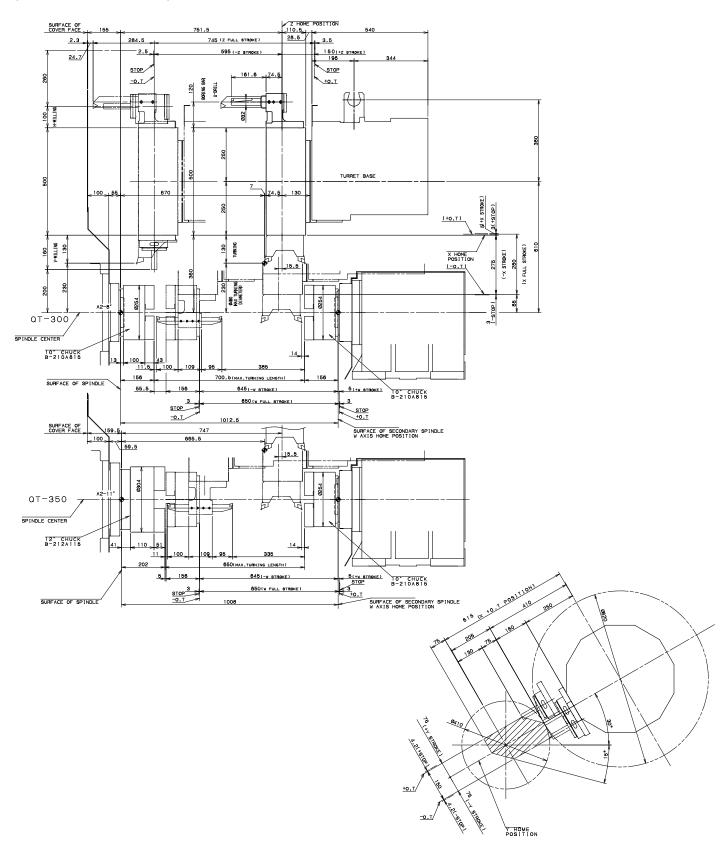


SURFACE OF

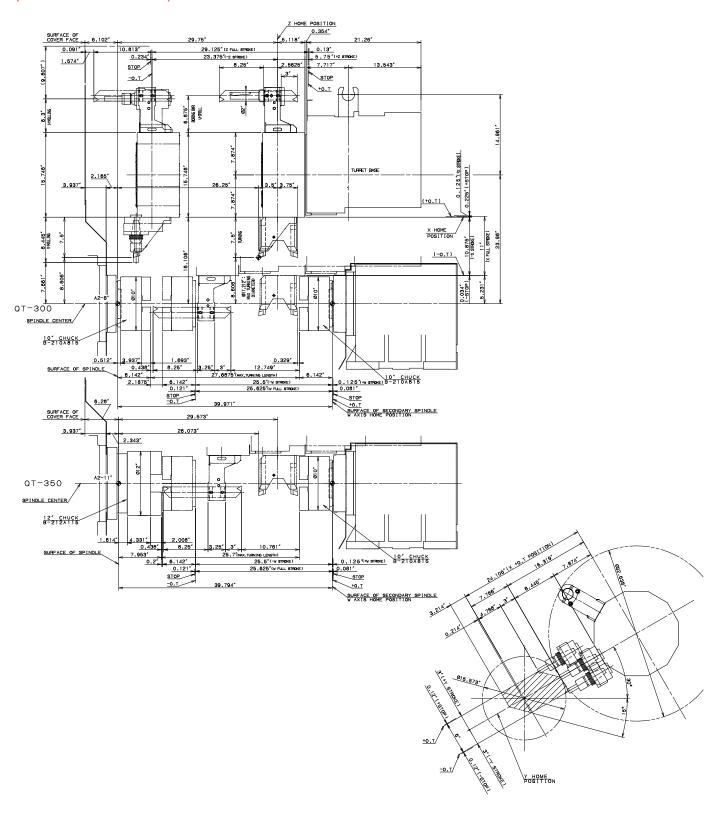
STROKE DIAGRAM — QUICK TURN 350MSY, 650U BOLT-ON (inch)



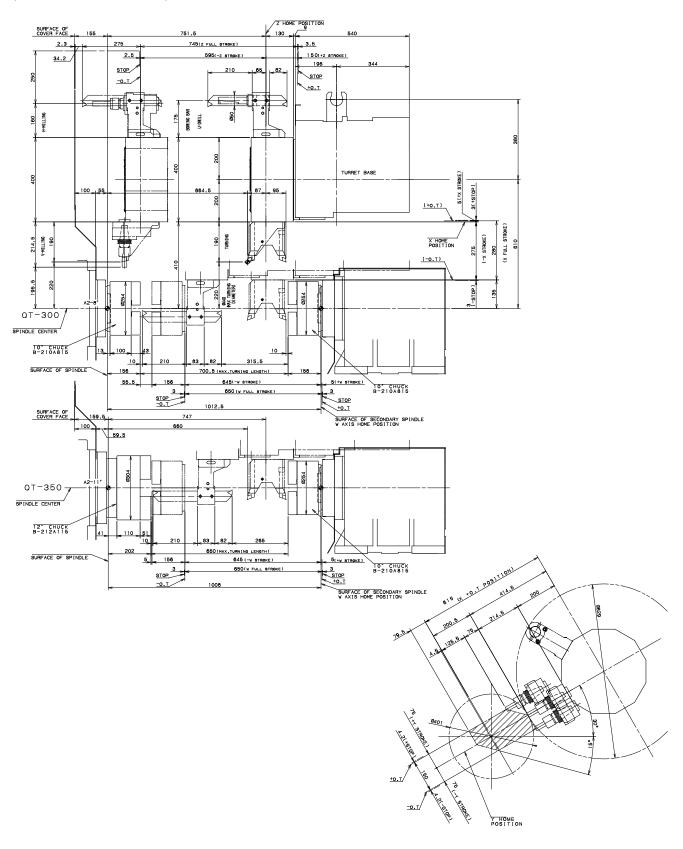
STROKE DIAGRAM — QUICK TURN 350MSY, 650U BOLT-ON (mm)



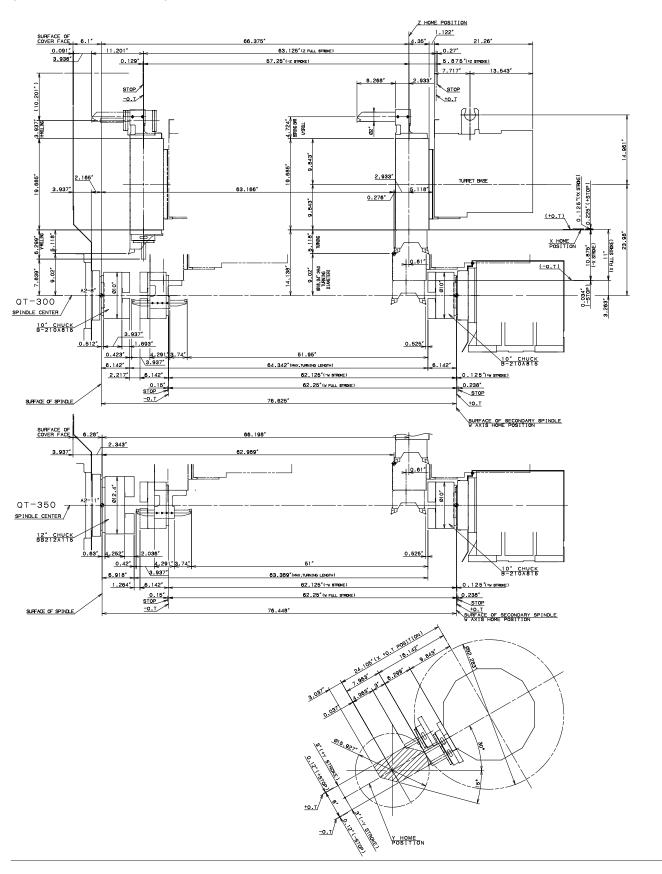
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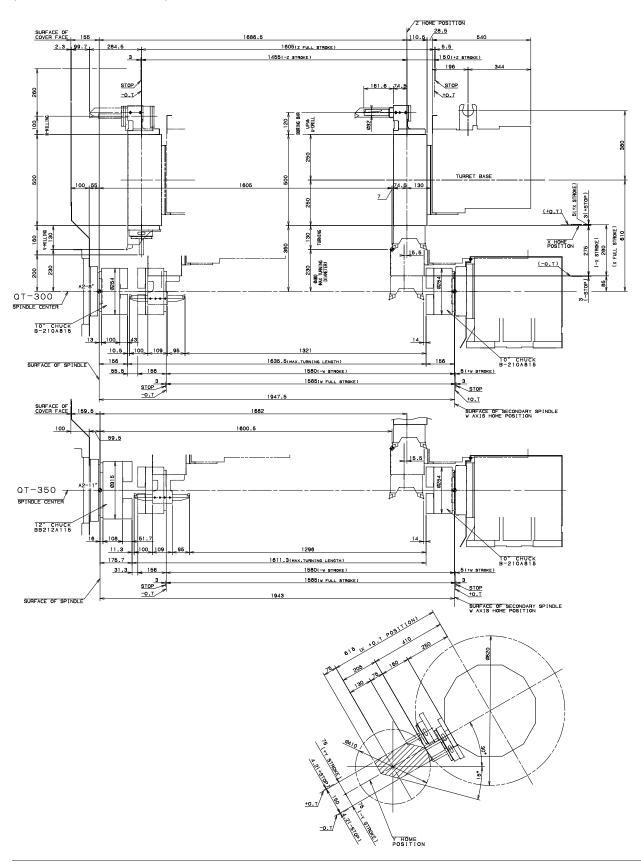
STROKE DIAGRAM — QUICK TURN 350MSY, 650U VDI (mm)



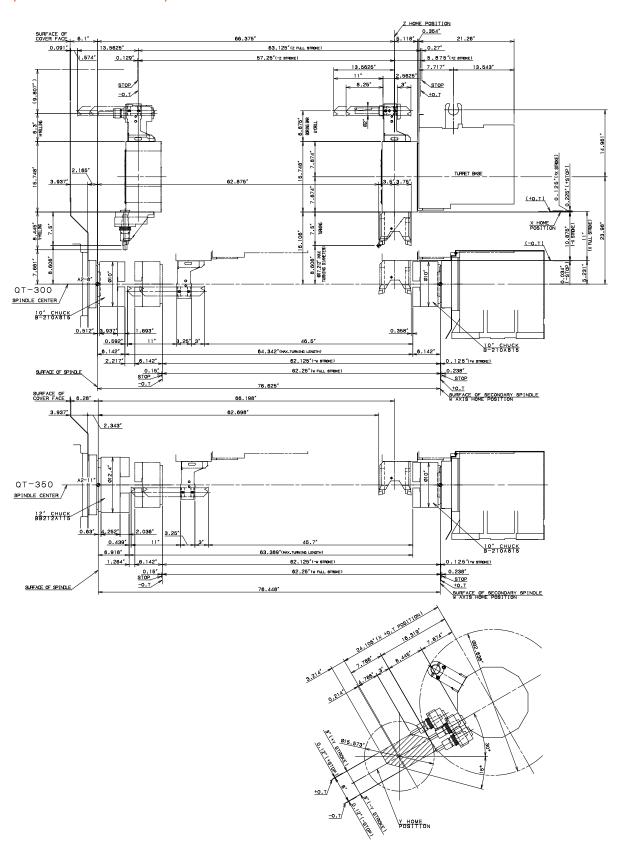
STROKE DIAGRAM — QUICK TURN 350MSY, 1500U BOLT-ON (inch)



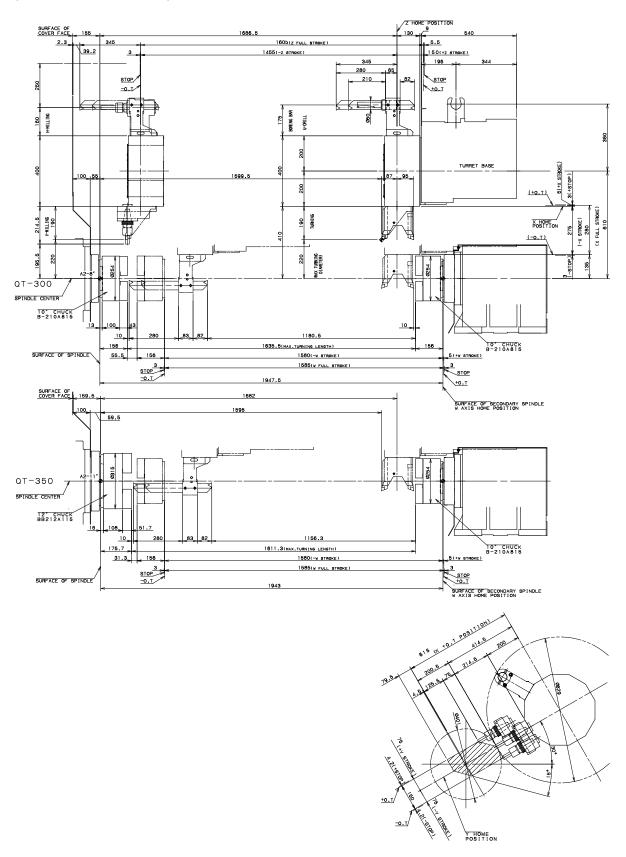
STROKE DIAGRAM — QUICK TURN 350MSY, 1500U BOLT-ON (mm)



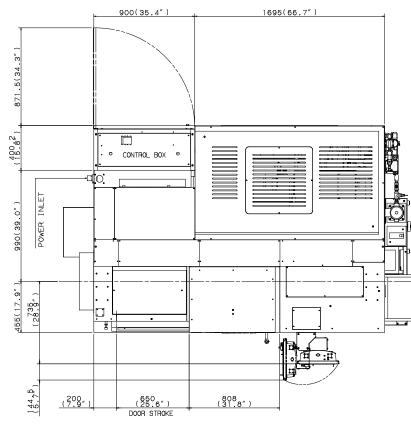
STROKE DIAGRAM — QUICK TURN 350MSY, 1500U VDI (inch)

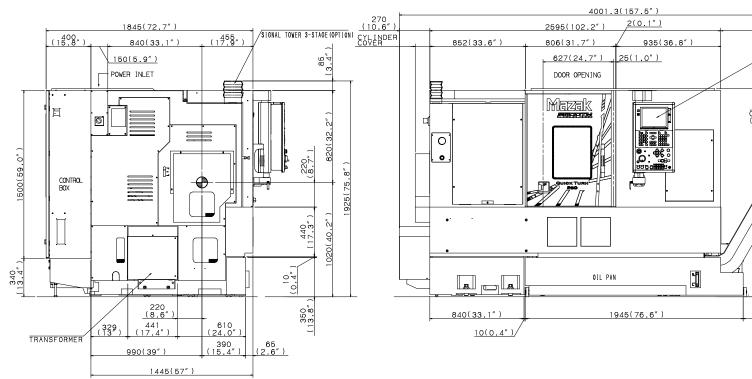


STROKE DIAGRAM — QUICK TURN 350MSY, 1500U VDI (mm)

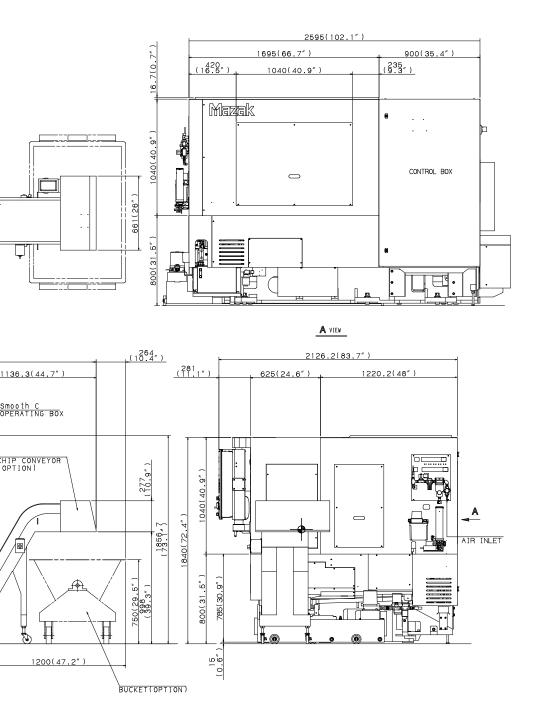


EXTERNAL DIMENSIONS — QUICK TURN 200, 200M, 200MY, 250, 250M, 250MY — 500U (FOR REFERENCE ONLY)

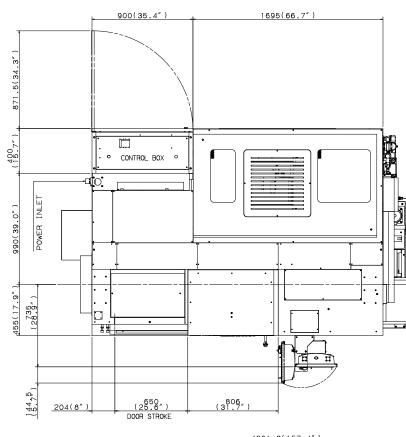


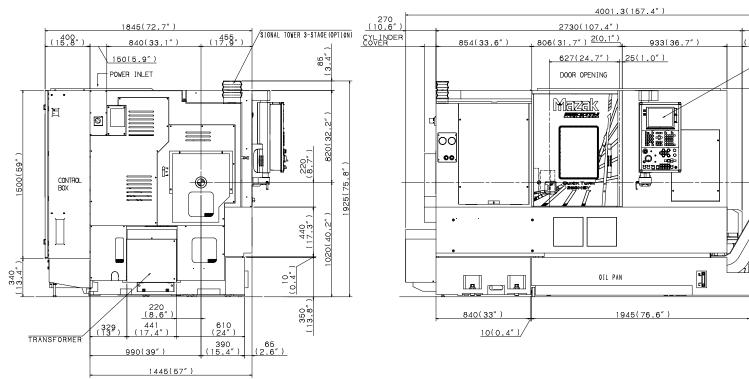


EXTERNAL DIMENSIONS — QUICK TURN 200, 200M, 200MY, 250, 250M, 250MY — 500U (for reference only)

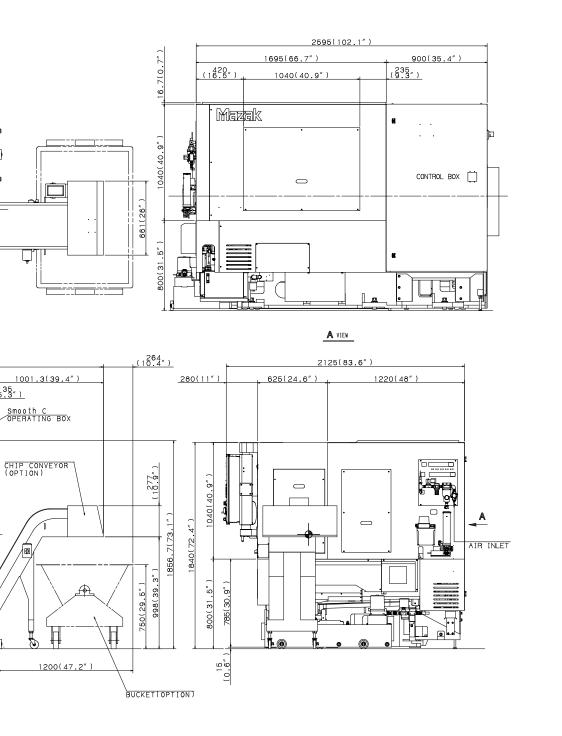


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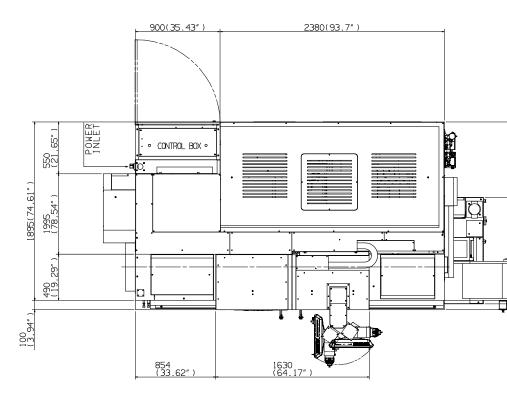


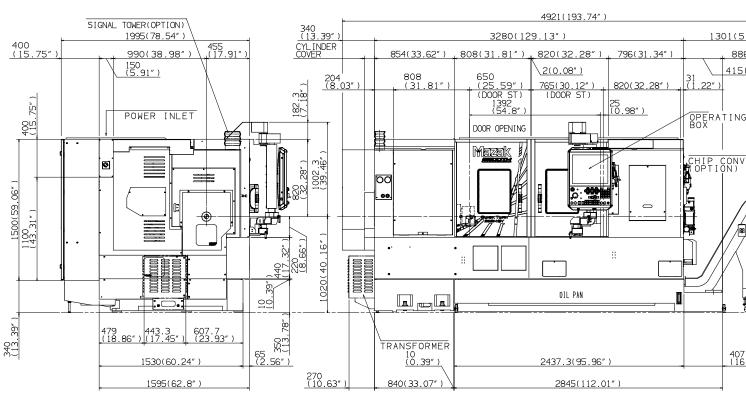


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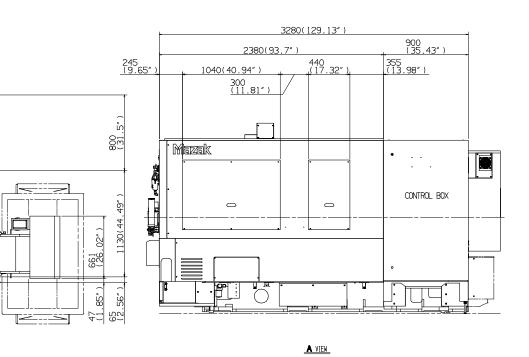


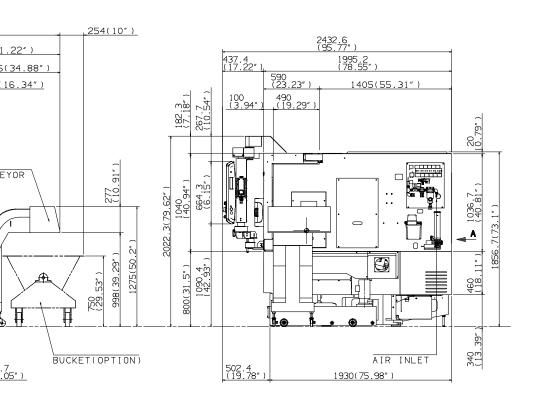
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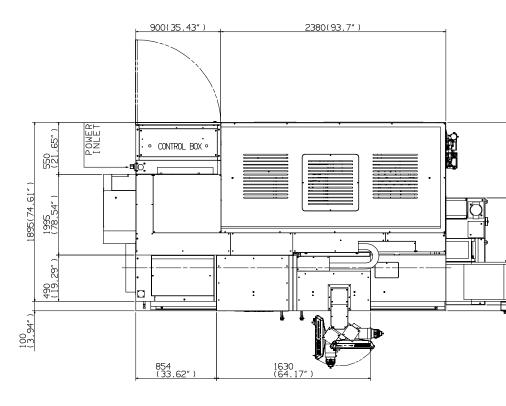


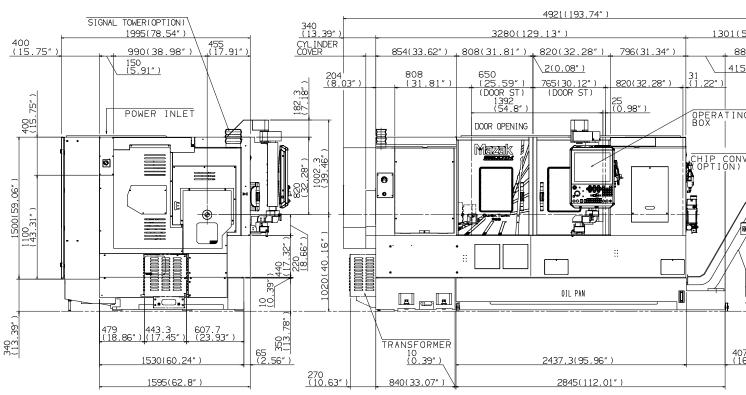
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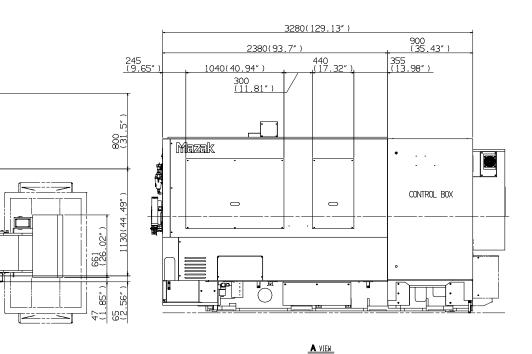


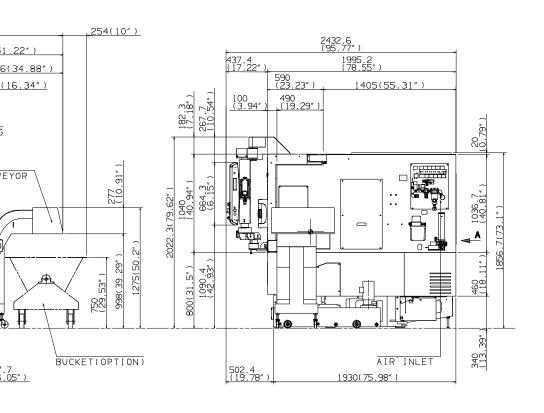
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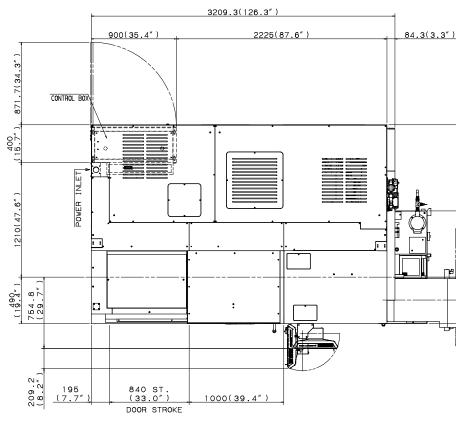


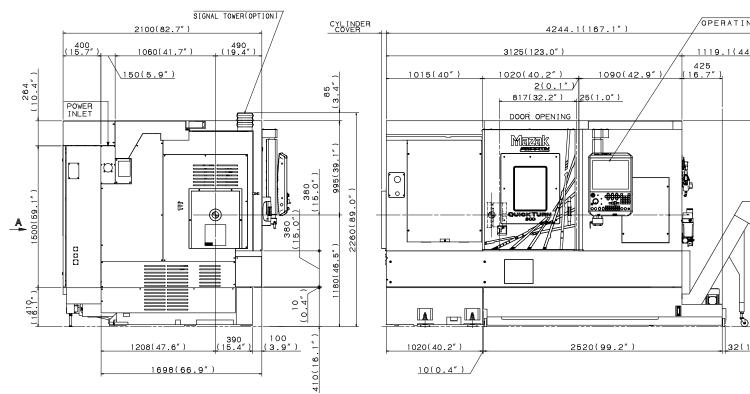
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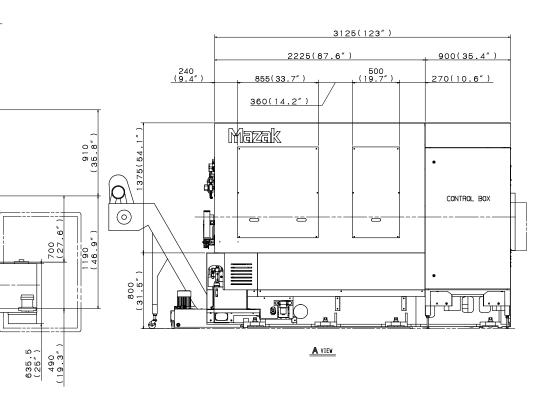


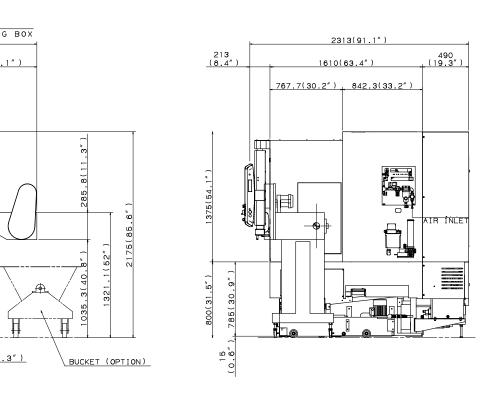
EXTERNAL DIMENSIONS — QUICK TURN 350, 350M, 350MY — 650U



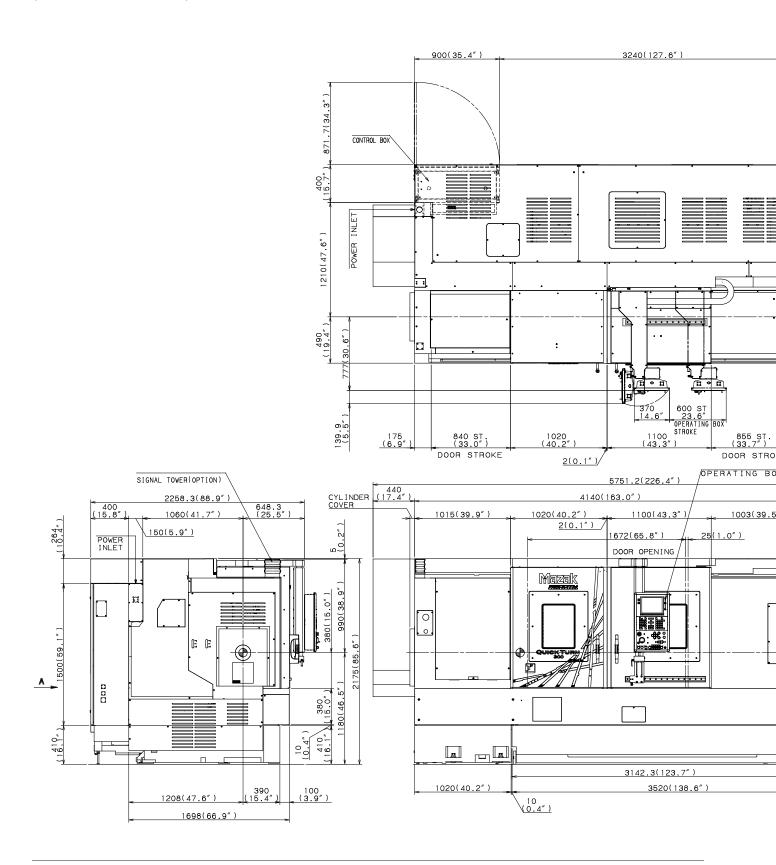


EXTERNAL DIMENSIONS — QUICK TURN 350, 350M, 350MY — 1000U

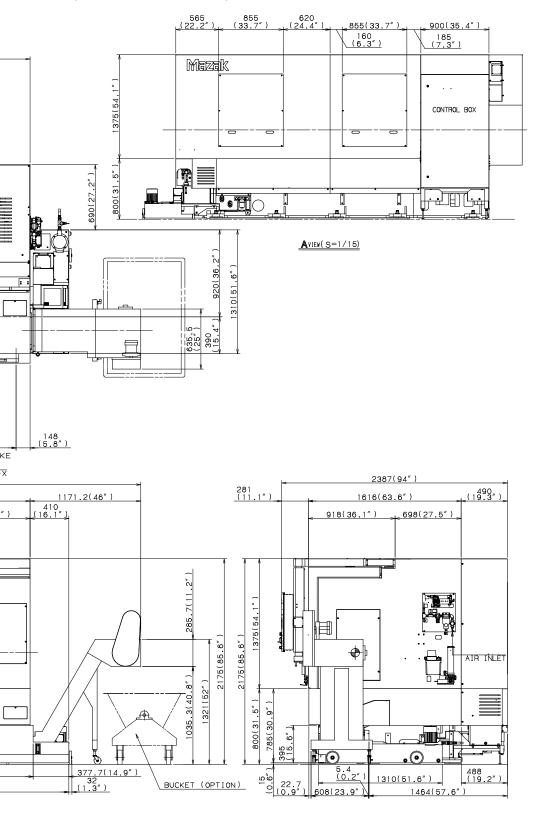




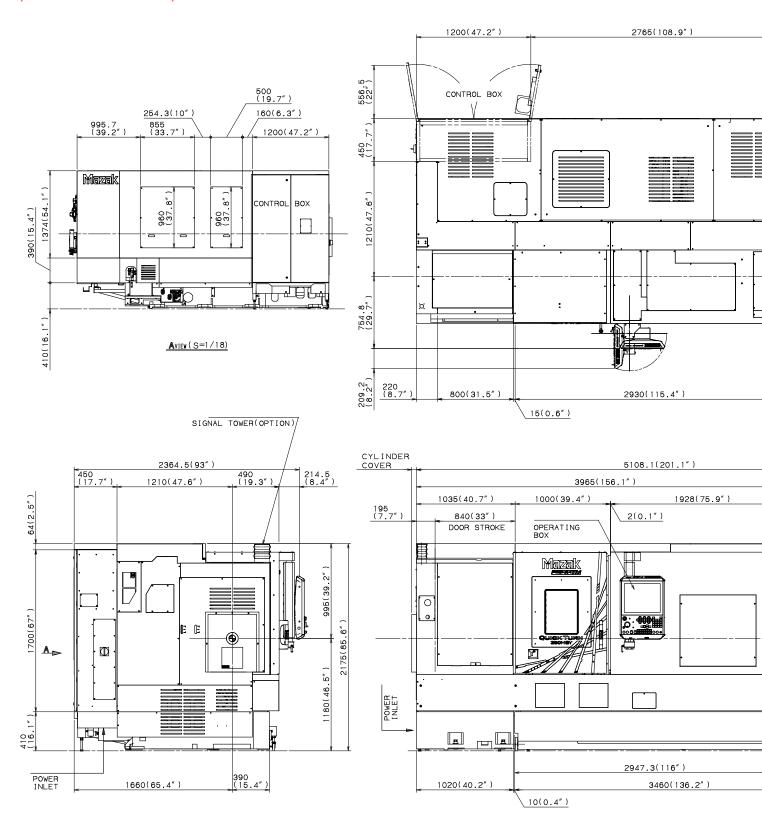
EXTERNAL DIMENSIONS — QUICK TURN 350, 350M, 350MY — 1500U



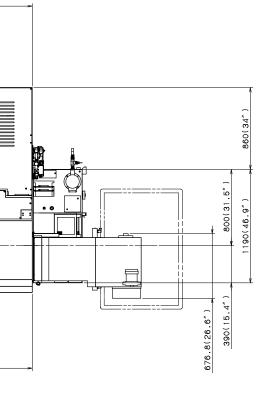
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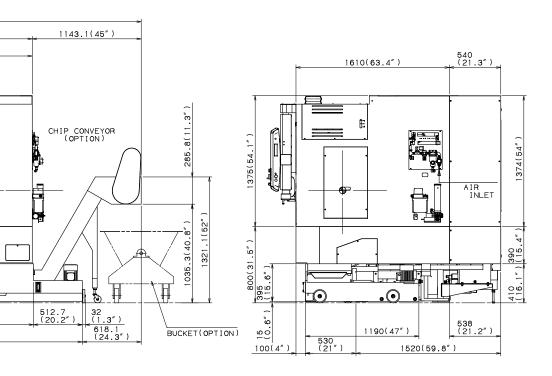


EXTERNAL DIMENSIONS — QUICK TURN 350MS, 350MSY — 650U

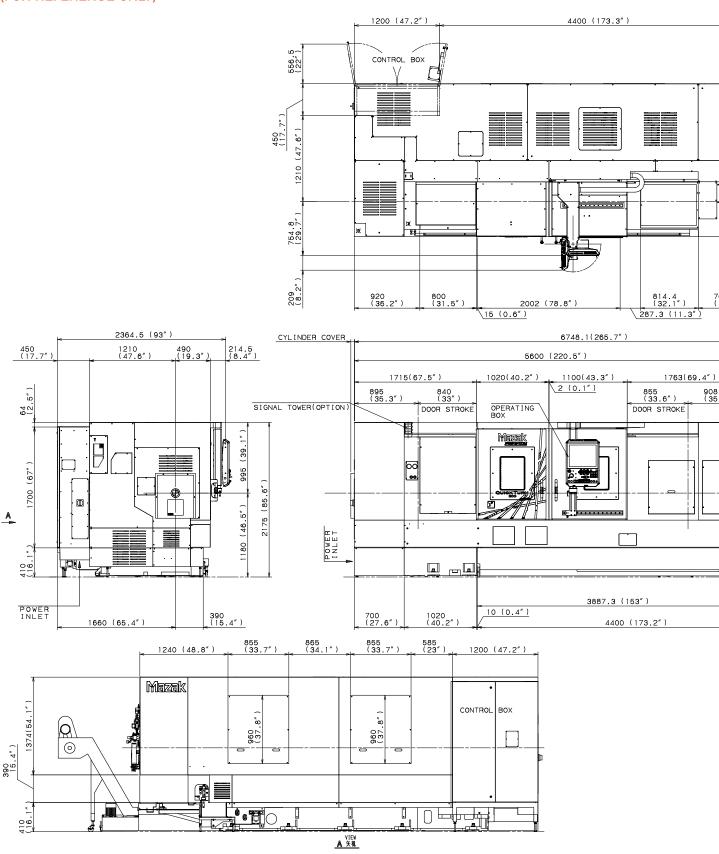


EXTERNAL DIMENSIONS — QUICK TURN 350MS, 350MSY — 650U

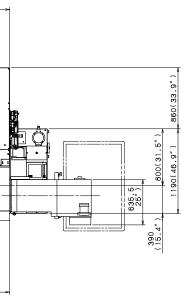


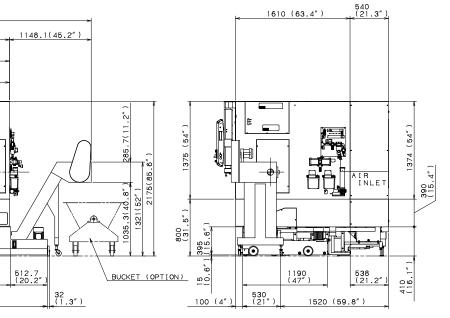


EXTERNAL DIMENSIONS — QUICK TURN 350MS, 350MSY — 1500U



EXTERNAL DIMENSIONS - QUICK TURN 350MS, 350 MSY - 1500 U





MACHINE SPECIFICATIONS – QUICK TURN 200 SERIES

				QUICK TURN 200	QUICK TURN 200M	QUICK TURN 200MS	
		Bed length		1			
	Maximum swing		in (mm)	24.02 (610) 26.50 (675)			
	Maximum bar work capacity		in (mm)	2.6 (65)			
Capacity	Maximum machining diameter		in (mm)	13.78 (350) 14.75 (380)			
σαρασιτή	Maximum machining	20	in (mm)	20.161 (511)	21.285 (538)	22.701 (575)	
	length	40	in (mm)	40.16 (1,024)	41.660 (1,058)	37.81 (960)	
	Chuck size		in	8			
Main spindle	Maximum speed		rpm	5,000			
	Motor output (30-minute rating)		hp (kW)	35 (26)			
	Chuck size		in	N/A	N/A	6	
Second spindle	Maximum speed		rpm	N/A	N/A	6,000	
Second Spindle	Motor rating		_	N/A	N/A	30	
	Motor output (25% ED)		hp (kW)	N/A	N/A	10 (8)	
	Number of tools		_	12			
Turret (upper)	Maximum speed		rpm	N/A	6,0	000	
Turret (upper)	Mill spindle motor output (10-minute rating)		hp (kW)	N/A	10 (7.5)		
	Travel (X axis)		in (mm)	7.5 (190)	9.00 (230)		
	Travel (Y axis)		in (mm)		N/A		
F	Travel (Z axis)	20	in (mm)	21.13 (535) 22.63 (575)		(575)	
Feed axes		40	in (mm)	41.50 (1,055)	42.50 (1,085)	31.875 (809)	
	Travel (Z axis)	20	in (mm)	21.75	5 (550)	23.00 (585)	
		40	in (mm)	40.75 (1,035)	41.375 (1,050)	36.625 (930)	

Specifications reflect standard VDI turret.

MACHINE SPECIFICATIONS — QUICK TURN 200 SERIES

				QUICK TURN 200MY	QUICK TURN 200MSY
		Bed length			
	Maximum swing		in (mm)	26.50 (675)	
	Maximum bar work capacity		in (mm)	2.6 (65)	
Capacity	Maximum machining diameter		in (mm)	14.75 (380)	
oupuonty	Maximum machining	20	in (mm)	21.285 (538)	22.701 (575)
	length	40	in (mm)	41.660 (1,058)	37.81 (960)
	Chuck size		in	8	
Main spindle	Maximum speed		rpm	5,000	
	Motor output (30-minute rating)		hp (kW)	35 (26)	
	Chuck size		in	N/A	6
Second spindle	Maximum speed		rpm	N/A	6,000
Second Spinale	Motor rating		_	N/A	30
	Motor output (25	% ED)	hp (kW)	N/A	10 (8)
	Number of tools		_	12	
Turret (upper)	Maximum speed		rpm	6,000	
Turret (upper)	Mill spindle motor output (10-minute rating)		hp (kW)	10 (7.5)	
	Travel (X axis)		in (mm)	9.00 (230)	
Feed axes	Travel (Y axis)		in (mm)	4.00 (100)	
	Travel (Z axis)	20	in (mm)	22.63 (575)	
		40	in (mm)	42.50 (1,085)	31.875 (809)
	T 1 /7	20	in (mm)	21.75 (550)	23.00 (585)
	Travel (Z axis)	40	in (mm)	42.13 (1,070)	36.625 (930)

MACHINE SPECIFICATIONS – QUICK TURN 250 SERIES

				QUICK TURN 250	QUICK TURN 250M	QUICK TURN 250MS	
		Bed length			1		
	Maximum swing		in (mm)	24.04 (610)	24.04 (610) 26.50 (675)		
	Maximum bar work capacity		in (mm)	3.0 (65)			
0 "	Maximum machining diameter		in (mm)	13.78 (350)	13.78 (350) 14.75 (380)		
Capacity	Maximum	20	in (mm)	18.733 (475)	19.858 (504)	21.275 (541)	
	machining	40	in (mm)	39.108 (995)	40.358 (1,024)	36.38 (927.5)	
	length	60	in (mm)	58.858 (1,495)	59.858 (1,524)	N/A	
	Chuck size		in	10			
Main spindle	Maximum speed		rpm	4,000			
	Motor output (30-minute rating)		hp (kW)	35 (26)			
	Chuck size		in	N/A	N/A	6	
Cocond onindle	Maximum speed		rpm	N/A	N/A	6,000	
Second spindle	Motor rating		_	N/A	N/A	30	
	Motor output (25% ED)		hp (kW)	N/A	N/A	15 (11)	
	Number of tools		_	12			
Turret (upper)	Maximum speed		rpm	N/A	N/A 6,000		
Turret (upper)	Mill spindle motor output (10-minute rating)		hp (kW)	6,000	10 (7.5)		
	Travel (X axis)		in (mm)	8.75 (190)	9.00 (230)		
	Travel (Y axis)		in (mm)	N/A			
	Travel (Z axis)	20	in (mm)	20.25 (515)	22.75 (575)	22.63 (575)	
Food avec		40	in (mm)	40.75 (1,035)	43.13 (1,095)	31.875 (809)	
Feed axes		60	in (mm)	60.50 (1,555)	62.75 (1,595)	N/A	
	Travel (Z axis)	20	in (mm)	20.625 (550)	21.75 (550)	23.00 (585)	
		40	in (mm)	42.13	(1,070)	36.625 (930)	
		60	in (mm)	61.81 (1,570)		N/A	

Specifications reflect standard VDI turret.

MACHINE SPECIFICATIONS — QUICK TURN 250 SERIES

				QUICK TURN 250MY	QUICK TURN 250MSY
		Bed length			
	Maximum swing		in (mm)	26.50 (675)	
	Maximum bar work capacity		in (mm)	3.0 (65)	
Canacity	Maximum machining diameter		in (mm)	14.75 (380)	
Capacity	Maximum	20	in (mm)	19.858 (504)	21.275 (541)
	machining	40	in (mm)	40.358 (1,024)	36.38 (927.5)
	length	60	in (mm)	59.858 (1,524)	N/A
	Chuck size		in	10	
Main spindle	Maximum speed		rpm	4,000	
	Motor output (30	-minute rating)	hp (kW)	35 (26)	
	Chuck size		in	N/A	6
Cocond onindle	Maximum speed		rpm	N/A	6,000
Second spindle	Motor rating		_	N/A	30
	Motor output (25	% ED)	hp (kW)	N/A	15 (11)
	Number of tools		_	12	
Turret (upper)	Maximum speed		rpm	6,000	
ταποι (αρροί)	Mill spindle motor output (10-minute rating)		hp (kW)	10 (7.5)	
	Travel (X axis)		in (mm)	9.00 (230)	
	Travel (Y axis)		in (mm)	4.00 (102)	
	Travel (Z axis)	20	in (mm)	22.75 (575)	22.63 (575)
Food avec		40	in (mm)	43.13 (1,095)	31.875 (809)
Feed axes		60	in (mm)	62.75 (1,595)	N/A
	Travel (Z axis)	20	in (mm)	21.75 (550)	23.00 (585)
		40	in (mm)	42.13 (1,070)	36.625 (930)
		60	in (mm)	61.81 (1,570)	N/A

MACHINE SPECIFICATIONS – QUICK TURN 350 SERIES

				QUICK TURN 350	QUICK TURN 350M	QUICK TURN 350MS	
		Bed length					
	Maximum swing		in (mm)	26.77 (680)	26.77 (680) 29.50 (750)		
	Maximum bar work capacity		in (mm)	4.0 (102)			
Consoitu	Maximum machining diameter		in (mm)	16.540 (420)			
Capacity	Maximum	26	in (mm)	23.8000 (603)			
	machining	60	in (mm)	62.720 (1,538)			
	length	80	in (mm)	82.920 (2,053)			
	Chuck size		in	12			
Main spindle	Maximum speed		rpm		4,000		
	Motor output (30-minute rating)		hp (kW)	40 (30)			
	Chuck size		in	N/A	N/A	10	
Cocond onindle	Maximum speed		rpm	N/A	N/A	4,000	
Second spindle	Motor rating		_	N/A	N/A	30	
	Motor output (25% ED)		hp (kW)	N/A	N/A	35 (26)	
	Number of tools		_	12			
Turret (upper)	Maximum speed		rpm	N/A	N/A 6,000		
rarrot (appoi)	Mill spindle motor output (10-minute rating)		hp (kW)	N/A	10 (7.5)		
	Travel (X axis)		in (mm)	10.13 (260) 10.75 (10.75 (275)	
	Travel (Y axis)	26	in (mm)	N/A			
		60	in (mm)		N/A		
Feed axes		80	in (mm)		N/A		
	Travel (Z axis)	26	in (mm)	25.50 (645) 26.385 (670)		5 (670)	
		60	in (mm)	62.38 (1,580)	63.25 (1,605)	63.12 (1,603)	
		80	in (mm)	82.50 (2,095)	83.50 (2,120)	N/A	
	Travel (W-Axis	26	in (mm)	25.5 (648) 26		26.63 (650)	
	and Tailstock)	60	in (mm)	62.25 (1,585)			

Specifications reflect standard VDI turret.

MACHINE SPECIFICATIONS — QUICK TURN 350 SERIES

				QUICK TURN 350MY	QUICK TURN 350MSY
		Bed length			
	Maximum swing		in (mm)	29.50 (750)	
	Maximum bar work capacity		in (mm)	4.0 (102)	
Canaaitu	Maximum machining diameter		in (mm)	16.540 (420)	
Capacity	Maximum	26	in (mm)	23.8000 (603)	
	machining	60	in (mm)	62.720 (1,538)	
	length	80	in (mm)	82.920 (2,053)	N/A
	Chuck size		in	12	
Main spindle	Maximum speed		rpm	4,000	
	Motor output (30	-minute rating)	hp (kW)	40 (30)	
	Chuck size		in	N/A	10
Cooond onindle	Maximum speed		rpm	N/A	4,000
Second spindle	Motor rating		_	N/A	30
	Motor output (25	% ED)	hp (kW)	N/A	35 (26)
	Number of tools		_	12	
Turret (upper)	Maximum speed		rpm	6,000	
Turrot (appor)	Mill spindle motor output (10-minute rating)		hp (kW)	10 (7.5)	
	Travel (X axis)		in (mm)	10.13 (260)	11.00 (280)
	Travel (Z axis)	26	in (mm)	6.00 (150)	
		60	in (mm)	6.00 (150)	
		80	in (mm)	6.00	(150)
Feed axes	Travel (Z axis)	26	in (mm)	26.385 (670)	
		60	in (mm)	63.25 (1,605)	63.12 (1,603)
		80	in (mm)	83.50 (2,120)	N/A
	Travel (W-Axis	26	in (mm)	25.5 (648)	26.63 (650)
	and Tailstock)	60	in (mm)	62.25 (1,585)

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







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 QUICK TURN Series utilizes a high efficiency lubrication system that has reduced oil consumption more than 90% when compared to 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 period for lower power consumption when the machine is in the stand-by state.



QUICK TURN 250



Power Consumption Display (Optional)

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



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.

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



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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 QUICK TURN 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.

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.





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Click here to register for after hours parts support.

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