



TSUGAMI
AMERICA

M08SY-II

TURNING CENTER WITH Y-AXIS

- 65mm Thru Bore Spindle Y Axis Turning Center
- 12 Station Driven Tool Turret
- Manual Tool Setter
- 8-Inch Main Spindle Chuck,
6-Inch Sub Spindle Chuck
- FANUC Oi-TF Plus CNC Control

tsugamiamerica.com

M08SY-II

TURNING CENTER WITH Y-AXIS

SPEED

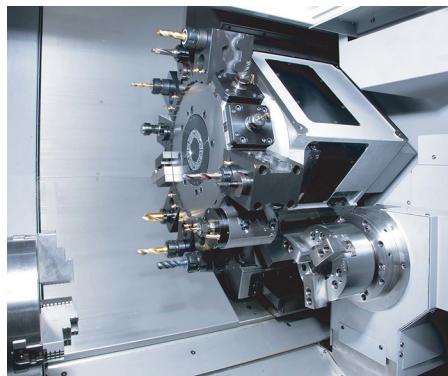
- The M08SY-II allows you to perform highly complex machining, such as turning, drilling, boring, cross-drilling and milling.
- Both the main and back spindles are equipped with state of the art integral servo motor spindles which minimize vibration and provide superior responsiveness for heavy duty cutting and fine finishing of workpieces.
- The Y-axis control enables diverse, off-center machining of complicated parts, plus incorporating the back spindle eliminates the need for secondary operations.

ACCURACY

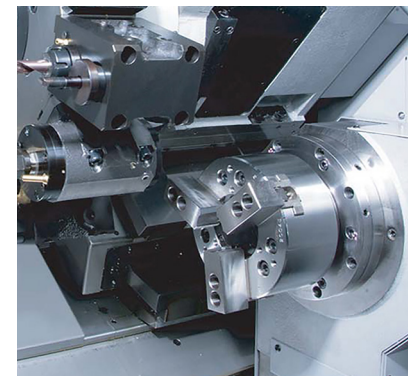
- The Y axis allows for turret tool positioning above or below center. The robust 12 station turret mounted to the Y axis allows for driven tooling to be mounted at any turret position for use on the main or back spindles.
- This tool zone flexibility coupled with the C axis provides you with the capability and flexibility to machine virtually any feature and drop your part complete.

RIGIDITY

- The M08SY-II features a very robust yet compact base, feature box way construction on the X and Y axes and weighs in at over 13,000 lbs! The box way construction allows for superior rigidity and dampening when taking heavy cuts.
- For extra peace of mind, the machines, motors, and FANUC controls are covered by an industry leading two-year parts and service warranty.



M08SY Tool Zone



M08SY Back Spindle



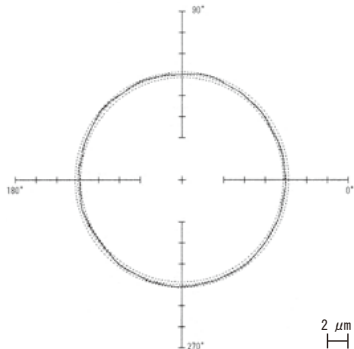
M08SY Tool Setter Standard

HIGH ACCURACY MACHINING

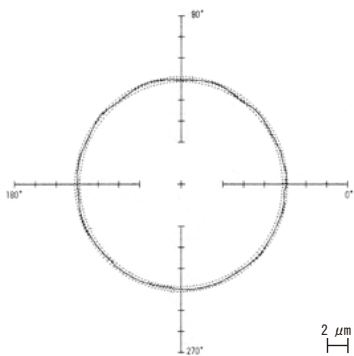
Note: The graph is an example of machining. It does not indicate guaranteed values.

Roundness

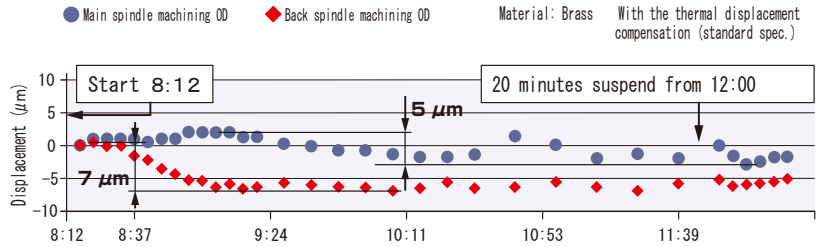
Main spindle
Roundness: 0.4 μm
Natural diamond tool



Back spindle
Roundness: 0.4 μm
Natural diamond tool

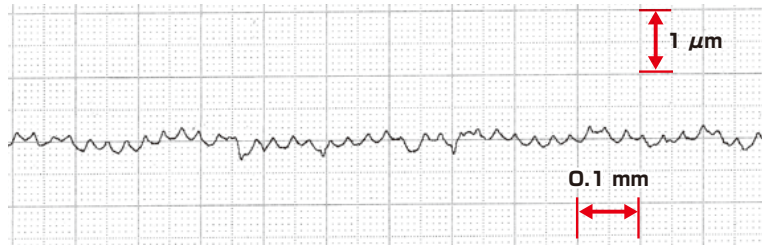


Continuous machining accuracy without warm-up operation: Main spindle: 5 μm/ Back spindle: 7 μm



Surface roughness

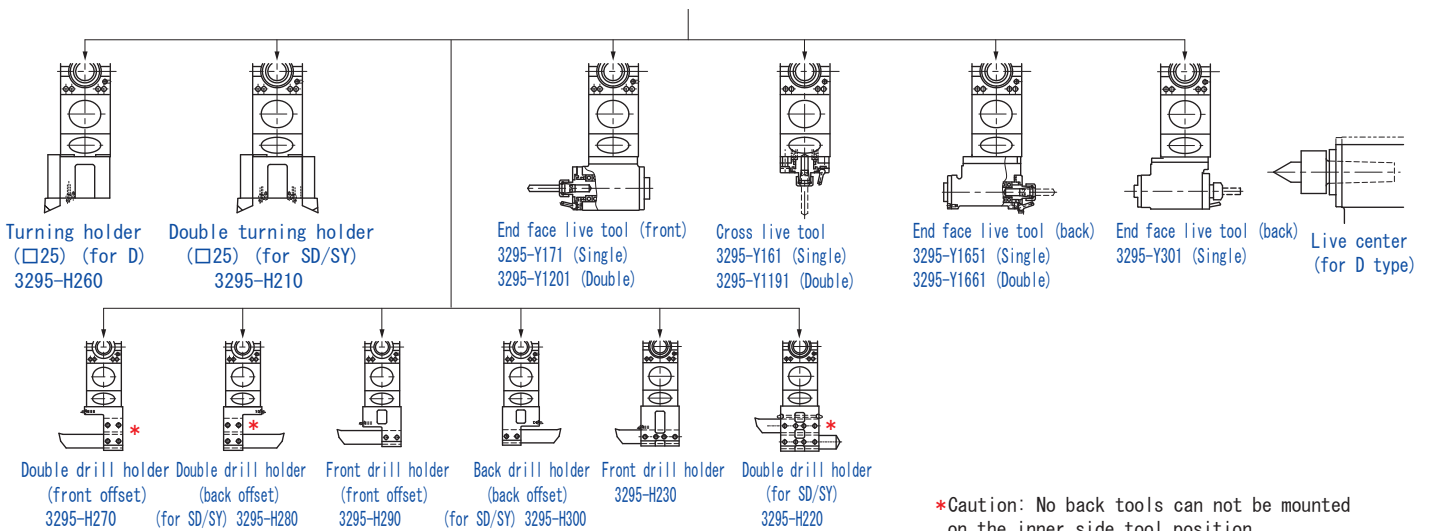
Material: Brass



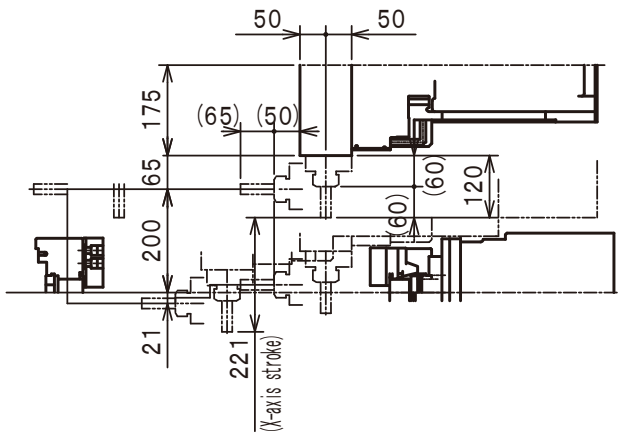
Ra = 0.06 μm Longitudinal magnification = 10,000
Rz = 0.36 μm Lateral magnification = 100

Note: The accuracy described above may not be obtained according to machined material, processing condition or the ambient environment.

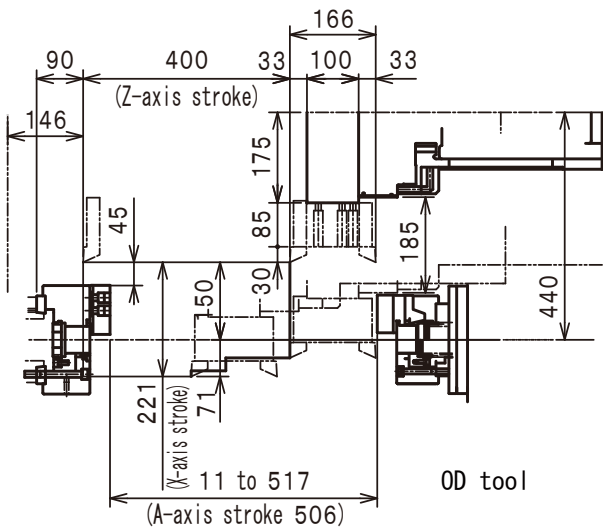
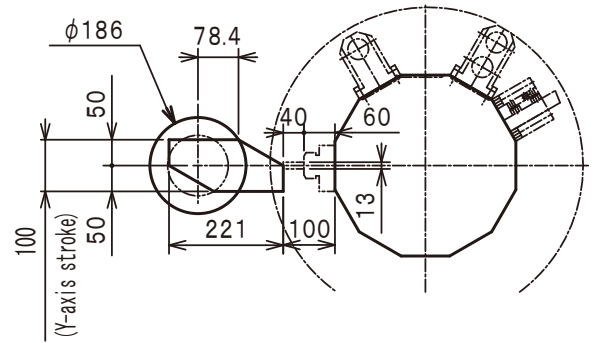
TOOL HOLDER (OPTION)



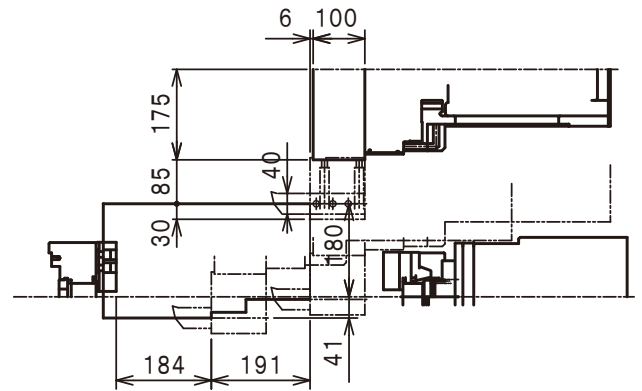
WORK ZONE & MODULAR TOOLING



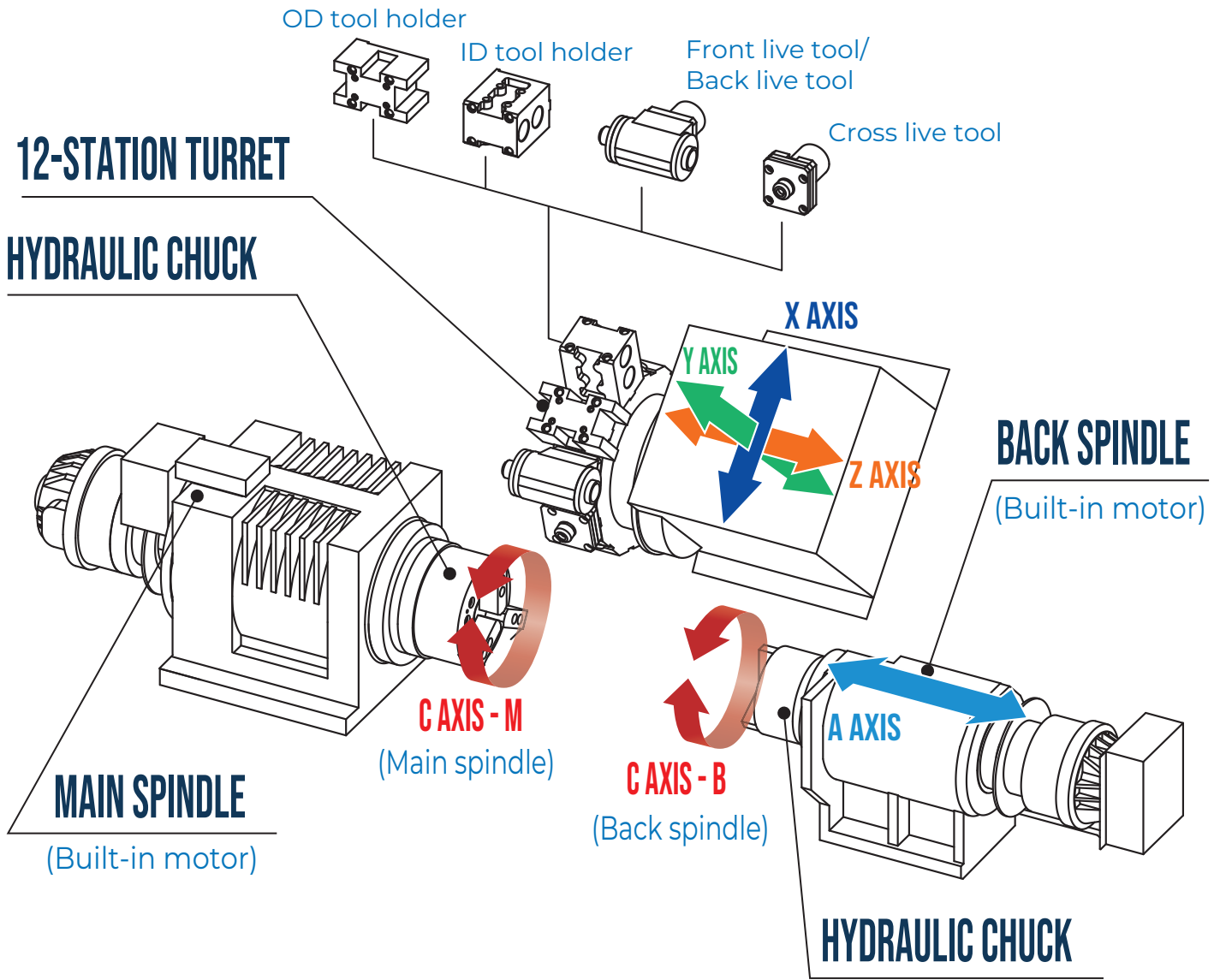
Live tool



OD tool



ID holder



Note: Shown figure includes options.

MACHINE STANDARD SPECIFICATIONS

STANDARD SPECIFICATIONS

ITEMS	M08SY-II
Max. Machining Diameter	Ø280/Ø65 (Barstock) Mm (Ø11.02/Ø2.56 (Barstock) In.)
Max. Machining Length	380 Mm (14.96 In.)
Chuck Size	8 Inch
Max. Main Spindle Speed	4,500 Rpm
Main Spindle Interface	A2-6
Main Spindle Bore	Ø73 Mm (2.87 In.)
Number Of Stations	12
Od Tool Shank	1.0"
Drill Holder ID Bore	1.5"
Max. Back Spindle Speed	4,500 Rpm
Back Spindle Interface	Ø140 Flat Nose
Back Spindle Bore/ Ø	Ø59 / Ø2.32
Back Spindle Chuck	6 Inch
Max. Live Tool Speed	5,000 Rpm
Main Spindle Motor	7.5/11 Kw (10/14.8 Hp)
Back Spindle Motor	5.5/7.5 Kw (7.4/10 Hp)
Live Tool Motor	1.5/3.7 Kw
X/Z-Axis Motor	1.8 Kw (2.4 Hp)
A/Y-Axis Motor	A: 1.2 Kw Y: 1.8 Kw (A: 1.6 Hp Y: 2.4 Hp)
Stroke X/Z	X: 221 Mm Z: 400 Mm (X: 8.70 In. Z: 15.75 In.)
Stroke A/Y	A: 506 Mm Y: ±50 Mm (A: 19.92 In. Y: ±1.97 In.)
Rapid Traverse Rate X/Z	X: 24 M/Min Z: 27 M/Min (X: 945 lpm Z: 1,062 lpm)
Rapid Traverse Rate A/Y	A: 30 M/Min Y: 12 M/Min (Z: 1,181 lpm Y: 472 lpm)
Power Source Requirements	30 Kva
Compressed Air Requirement	0.5 Mpa
Air Discharge Rate	100 NI/Min
Coolant Capacity	42 Gallons
Size (Width X Depth X Height)	2,470mm X 1,850mm X 1,930mm (97.24 In. X 72.83 In. X 75.98 In.)
Weight	5,900 Kg (13,007 Lbs)

INCLUDED ACCESSORIES

ITEMS
Work Catcher With Conveyor
Pneumatic Ejector
Sub Spindle Chuck 6" - 3 Jaw Hollow
(3) Double Turning Holder
(4) Double Drill Holder
(2) Boring Sleeve (.75" Id)
(2) Boring Sleeve (1.0" Id)
(2) Cross Drill Head
(2) Front/Back Drill Head
Work Stopper
Cut-Off Holder
Internal Illumination Light
Door Interlock
300 Psi Coolant Thru Turret
300 Psi Coolant Thru Ejector
Hydraulic Cylinder Unit
Standard Tools
Plate, Leveling Bolt
Transit Clamps
Spindle Air Purge
Thermal Compensation
Live Tool Rigid Tap
Main/Back Spindle C-Axis (With Brake)
Foot Switch
Tool Setter - Manual Swivel Type

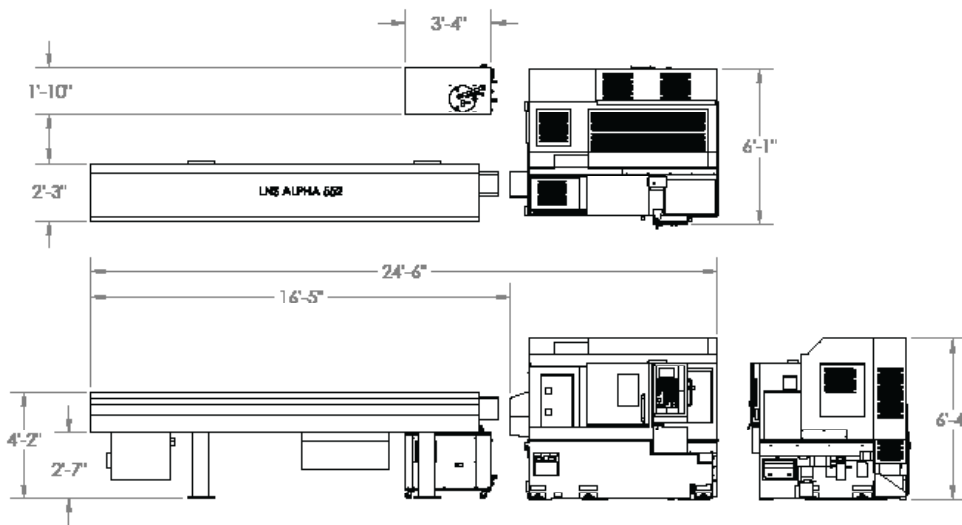
NC SPECIFICATIONS

NC UNIT

NC ACCESSORIES

ITEMS	M08SY-II
Nc Unit	FANUC 0i-TF Plus
Controllable Axes	X,Y, Z, C ^M , C ^B , A
Least Input Increment	0.001 mm (.000040 in.)
Maximum Commandable Value	± 8 digits
Interpolation Method	Linear / circular
Cutting Feed Rate	1 to 6,000 mm/min (1 to 236 in/min)
Feed Rate Override	0 to 150%, 10% step
Dwell	G04, 0 to 99999.999
Absolute/Incremental Command	X, Y, Z, CM, CB, A: Absolute U, V, W, HM, HB: Incremental
Tool Offset Value	± 6 digits
Tool Offset Pairs	64 pairs
Lcd/Mdi	10.4" color LCD
Display Language	English
Part Program Storage Size	2 MB (equivalent to tape length 2,560 m)
No. Of Registerable Programs	1,000
Miscellaneous Function	M Code 4 digits
Spindle Function	S Code 4 digits
Tool Function	T Code 4 digits

ITEMS	M08SY-II
Chasing Function	Standard
Continuous Thread Cutting	Standard
Manual Pulse Generator	Standard
Memory Card I/O Interface	Standard
Rs232c I/O Interface	Option
Back Ground Editing	Standard
Run Time/Parts Number Display	Standard
Custom Macro	Standard
Constant Surface Speed Control	Standard
Tool Geometry / Wear Offset	Standard
Programmable Data Input	Standard
Chamfering And Corner R	Standard
Multiple Repetitive Cycle	Standard
Expanded Program Editing	Standard
Direct Drawing Dimension Input	Standard
Inch/Metric Conversion	Standard
Canned Cycle For Drilling	Standard
Rigid Tapping	Standard
Abnormal Load Detection	Standard
Manual Handle Retrace	Option
Variable-Lead Thread Cutting	Standard
Thread Cutting Cycle Retract	Standard
Cylindrical Interpolation	Standard
Polar Coordinate Interpolation	Standard
ion	Standard
i	Option



Since 1978, Tsugami America (formerly known as Tsugami/Rem Sales) has been the exclusive source for Precision Tsugami CNC machine tools in North America. Headquartered in Windsor, CT, Tsugami America provides machine tools and engineering expertise through an extensive network of authorized distributors and technical centers. Technical support and customer service are available throughout North America. Our distributors' trained service personnel provide technical support throughout the long life-cycle of our Tsugami machine tools, and work hand-in-hand with Tsugami America's engineers to deliver common-sense solutions to everyday problems.

Our application engineers help customers tackle and solve the toughest high-precision manufacturing challenges, on-time and on-budget. We have a 40-year history and reputation of serving the needs of small parts manufacturers in North America with the highest level of expertise and customer care. Our industry-respected, knowledgeable staff is comprised of both long-time employees and fresh faces all who share a commitment to provide you, our customers, with the competitive advantage to "do more with less" every day.

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