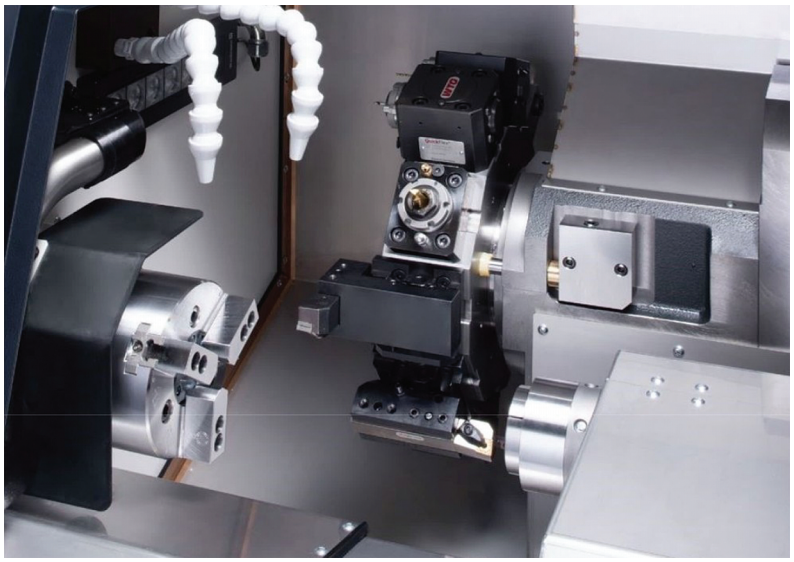
# Japan-Made Mill-Turn Lathe



The new Japan-made GEN TURN C 42MYS from Expand Machinery is a small footprint 6-axis mill-turn lathe with a sub spindle, featuring axial and radial milling/drilling capability on all 10 tool stations. A Y-axis is utilized on tool turret for off centerline milling and drilling. This universal design allows the flexibility of efficient chuck and bar work and is suited to provide for a completed part in just one operation. Available are 42 mm, 1-5/8" bar and 52 mm, 2" bar capacity versions. The 6" chucks on the main spindle and 5" chucks on the sub spindle can be used for workholding.

The machine uses the FANUC 0i-TF Plus control for reliability and ease of operation. The fast indexing, bi-directional, 10-station tool turret uses the rigid base mounted (BMT) tooling system. The tool count can be increased using toolholders that hold multiple tools by taking advantage of the Y-axis turret shift. The BMT tooling provides for enhanced cutting stability and improved tool alignment and centering characteristics. Internal and external tooling can be mixed on any tooling station for tooling set-up flexibility. Driven tools can be used on all tool stations, and double-ended driven tools can machine front and back on both spindles to increase the tool count for more complex workpieces.

The dual opposed main and counter spindles are fully synchronized for accurate workpiece transfer, even on irregular shaped machined surfaces. Both spindles feature a high-performance C-axis that provides 360,000 radial positions, as well as full contouring capability. Even machining 4-axis simultaneous contouring features can be achieved. The radial spindle position is accurately secured during the cut by a powerful hydraulic disk brake. A Marposs tool setter is standard, which is helpful in reducing set-up time and assisting in overall production efficiency. The included parts catcher deposits the finished parts on the outbound parts conveyor belt for mark-free production.

"Dual-wound FANUC motors with built-in spindles provide the maximum cutting torque without suffering the losses that belt-driven spindles create," said a company spokesperson. "This design provides for a high rate of spindle acceleration and deacceleration for reduced part cycle times."

The counter spindle has coolant forced through the spindle, as well as spindle air blast, to clean the collet or chuck jaws to help ensure an accurate and secure grip on the next workpiece. Multiple brands and sizes of dead-length collet chucks can be utilized for workholding on the machine.

See the GEN TURN C42MYS in action at the Expand Machinery booth 338187 at IMTS in Chicago, along with eight additional machines that can help expand manufacturing capability. Expand Machinery offers a full range of CNC Swiss as well as a GEN MILL CNC milling machines, GEN TURN CNC machines and a full range of GANESH manual and CNC toolroom lathes and milling machines.

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