









TensileMill CNC

Industrial Upgrade

-  **TURNKEY SOLUTION**
-  **ACCURATE & REPEATABLE RESULTS, EVERY TIME!**
-  **SMALL FOOTPRINT**
-  **PERFECT FOR UNTRAINED CNC MACHINIST**
-  **SUPER USER-FRIENDLY**
-  **FREE PROOF OF CONCEPT**

DESCRIPTION

The TensileTurn CNC – Industrial Upgrade Model is a conveniently sized automatic CNC lathe for industrial use designed to prepare accurate round tensile specimens to achieve the highest accuracy in tensile results. The system features touch screen tensile milling interface to allow any operator, with or without machining experience, to quickly prepare tensile specimens as per your desired size. By simply selecting a common tensile size from our library of common standards (ASTM, ISO, DIN, etc) or by entering your own dimensions on the touch screen numerical keypad, TensileTurn CNC – Industrial Upgrade Model is ready to machine a wide range of materials, starting specimens blanks with various finishes and automation capabilities, such as automatic center drilling function.

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TensileTurn CNC - Industrial Upgrade

Round Tensile Sample Preparation Machine

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Compact Round Tensile Specimen Preparation Machine



ACCURATE & REPEATABLE RESULTS, EVERY TIME!



SUPER USER-FRIENDLY



SMALL FOOTPRINT



PERFECT FOR UNTRAINED CNC MACHINIST



TURNKEY SOLUTION



FREE PROOF OF CONCEPT

TensileTurn CNC - Industrial Upgrade Model is a high-performance CNC tensile sample preparation system, specifically engineered for efficient and precise round tensile specimen preparation. As the enhanced version of our Classic model, this system features TensileSoft™ v2.0—the industry's most user-friendly software for tensile test specimen machining—now paired with the world's first Fanuc Controller integration for this application. The advanced programming package supports a full range of CNC operations, including turning, facing, knurling, sanding, drilling, and cutting, while delivering the simplest and most intuitive process available for non-trained CNC machinists.

This system allows your quality control team to produce a wide range of tensile specimens, including standard round tensile bars, sub-size round samples, threaded specimens, fatigue test specimens, and button-head tensile bars. With the ability to accept round, square, or irregular stock shapes, the TensileTurn CNC lathe simplifies tensile test sample preparation—even for operators with minimal machining experience.

By bringing round tensile sample preparation in-house, your facility gains full control over testing timelines, eliminating outsourcing delays and reducing overall costs. The system is designed to operate independently from your general-purpose machining centers, freeing up production capacity while allowing the quality control team to prepare tensile specimens on demand—in just minutes.



FEATURES

- Granite frame and balls crews – robust and shock absorbent frame offering a stable foundation for industrial grade high speed machining
- Stainless steel enclosure
- 3500 RPM 2 HP (1.5kW) Motor
- 8 position turret, 1/2" shank OD tools
- 4 Boring tool holders, 3/4" shank
- Servos: FANUC Bis 0.5 Servo
- Center drilling automation



CONTROLLER

Our easy to use touch screen controller is equipped with our complete Carbon software. Our control systems include 2Mb of storage, Ethernet, USB ports, macro B programming, 16 tool offsets, 6 work offsets, drilling canned cycles, scaling and mirroring, turning CAN cycles, cutting edge dual mode cutter compensation, and more. Along with the tensile milling software interface, Carbon also allows the operator to access the FANUC Industrial CNC Software used for professional CNC Control functions. Our Carbon software is constantly having new features developed, and every TensileMill CNC system includes updates at no additional cost.

Technical Specifications	Imperial	Metric
Swing Over Bed	08"	0203mm
Center Width	9"	228mm
Spindle Bore	Ø1"	Ø26mm
Spindle Speed Range (rpm)	50-3500	
Lathe Chuck	Ø4"	Ø101mm
Tool Changer Type	Electric	
Number of Tool Position	8 with ½" shank external tools	
Tool Holder	4 Boring Tool Holders, ¾" Shank	
Max Section of Tool	0.5" x 0.5"	12,7mm x 12,7mm
X Travel	7.09"	180mm
Z Travel	8.85"	225mm
X Axis Speed	600in/min	15 m/min
Z Axis Speed	600in/min	15 m/min
Position Accuracy	±0,0004"	±0,01mm
Repeat Position Accuracy	±0,0002"	±0,005mm
Tailstock Taper	M12	
Tank Capacity	10Gal / 38L	
Total Connection	3,2KW	
Servo Motor	FANUC Bis 0.5 350W AC	
Main Motor Power	1,4KW 2HP	
Main Motor (rpm)	3500	
Coolant Pump Power	1/8 HP	
Power Requirements	220V VAC 20A	
Weight	800 lbs.	362 kg
Dimensions (LxWxH)	43,8" x 26" x 42,5"	1,1m x 0,66m x 1,1m

UNIQUE SOLUTION FOR ROUND TENSILE SPECIMEN CNC PREPARATION