



TensileTurn CNC – Industrial Upgrade Model Tensile Specimen Preparation Machine



SPECIFICATIONS

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 our award winning 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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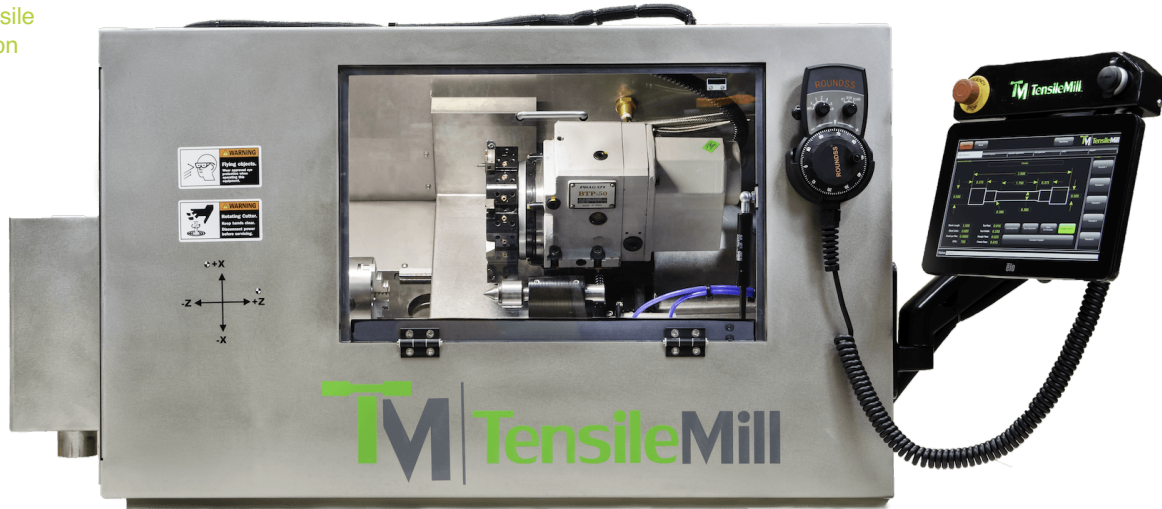
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TensileMill CNC – Industrial Upgrade

Compact Round Tensile Specimen Preparation Machine



GENERAL

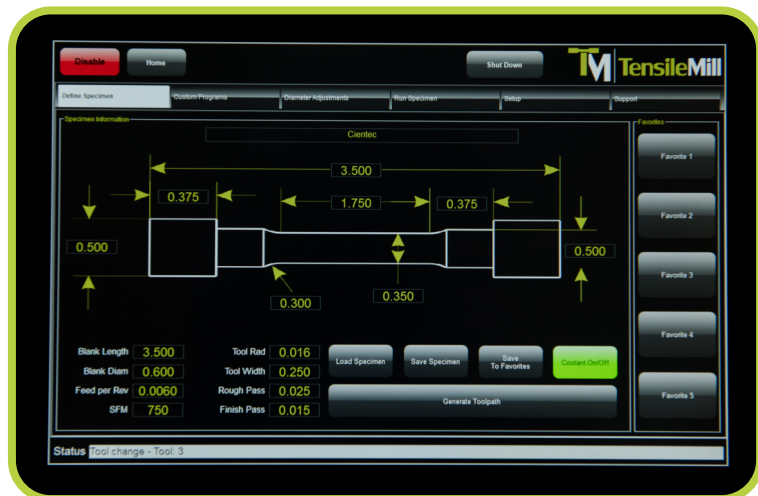
TensileTurn CNC – Industrial Upgrade Model is the upgraded version of our Classic system. The system is industry leading, user-friendly round tensile sample preparation machine featuring our state-of-the-art TensileSoft and a complete Carbon software which allows the more experience operators to program the system for universal applications for cutting, sanding, knurling, drilling, facing or turning.

TensileTurn CNC – Industrial Upgrade Model can prepare standard round tensile specimens, sub-size specimens, threaded tensile specimens, button-head tensile bars, fatigue specimens and other round testing specimens. The operator is only required to simply load the machine with either round, square or irregular stock.

This machine allows your laboratory personnel to bypass any wait times with your machining center and prepare their own tensile specimens ready for testing in a matter of minutes. The production of high quality tensile specimens combined with ease of use is what sets the TensileTurn CNC apart. It enables the rapid milling of precisely measured round and button head specimens for superior tensile testing results.

CONTROLLER

Our easy to use touch screen controller is equipped with our complete Carbon software. Our control systems include 64 Gb of storage, 4 Gb of RAM, WiFi, Ethernet, USB ports, macro B programming, 254 tool offsets, 126 work offsets, helical interpolation, drilling canned cycles, scaling and mirroring, advanced trajectory planning, cutting edge dual mode cutter compensation, and more. Along with the tensile milling software interface, Carbon also allows the operator to access the MACH4 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.



FEATURES

- Granite frame and balls crews – robust and shock absorbent frame offering a stable foundation for industrial grade high speed machining
- Stainless steel enclosure
- 4500 RPM 3.5 HP (2.6kW) Motor
- 8 position turret, 1/2" shank OD tools
- 4 Boring tool holders, 3/4" shank
- Servos: Yaskawa 400W AC Servo
- Center drilling automation
- Double the X and Y travel speeds

Technical Specification

	Imperial	Metric
Swing Over Bed	Ø8"	Ø203mm
Center Width	9"	228mm
Spindle Bore	Ø1"	Ø26mm
Spindle Speed Range (rpm)	0"-177"	0-4500 mm
Lathe Chuck	Ø4"	Ø101mm
Tool Changer Type	Electric	
Number of Tool Position	8 with 1/2" shank external tools	
Tool Holder	4 Boring Tool Holders, 3/4" Shank	
Max Section of Tool	0.47" x 0.47"	12x12mm
X Travel	7.09"	180mm
Z Travel	8.85"	225mm
X Axis Speed	500in/min	12,700 mm/min
Z Axis Speed	500in/min	12,700 mm/min
Position Accuracy	X:±0.05mm,Z:±0.03mm	
Repeat Position Accuracy	X:±0.02mm,Z:±0.02mm	
Tailstock Taper	M12	
Tank Capacity	10Gal / 38L	
Total Connection	4.4KW	
Servo Motor	Yaskawa 400W AC	
Main Motor Power	2.6KW / 3.5HP	
Main Motor (rpm)	4500	
Coolant Pump Power	1/8 HP	
Power Requirements	220V VAC 20A	
Weight	800 lbs.	362 kg
Dimensions (LxWxH)	46.4" x 43.8" x 40.4"	1179 x 1105 x 1026 mm