



TensileTurn CNC

Classic Upgrade



- ④ 2220 Meridian Blvd., Suite #AF937, Minden, NV, 89423, USA
- ④ 11407 SW Amu St., Tualatin, OR, 97062, USA
- ④ 4071 L.B. Mcleod Rd. Ste D PMB 34, Orlando, FL, 32811, USA
- ④ 847 Sumpter Road, Belleville, MI, 48111, USA
- ④ 918 16 Ave NW, Calgary, AB, T2M 0K3, Canada

- ④ **ACCURATE AND REPEATABLE RESULTS**
- ④ **NO SURFACE GRINDER NEEDED**
- ④ **SMALL FOOTPRINT**
- ④ **PERFECT FOR UNTRAINED CNC MACHINIST**
- ④ **SUPER USER-FRIENDLY**
- ④ **FREE PROOF OF CONCEPT**

DESCRIPTION

The TensileTurn CNC Classic Upgrade Model is a robust, compact CNC lathe designed to prepare accurate round tensile specimens and support consistent, high quality tensile test results. The system features our TensileSoft 2.0 touchscreen interface and enhanced 15 inch controller, allowing any operator, with or without machining experience, to quickly prepare specimens to your required dimensions. By selecting a common specimen size from our built in standards library (ASTM, ISO, DIN, etc.) or entering custom values using the touchscreen keypad, the TensileTurn CNC Classic Upgrade Model is ready to machine materials up to 55 HRC. With efficient workholding and the ability to process multiple stacked samples, it helps reduce lab delays and supports accurate, repeatable specimen preparation in minutes.

TensileTurn CNC - Classic Upgrade

ROUND Tensile Specimen Preparation Machine

GENERAL

The TensileTurn CNC Classic Upgrade Model is a robust, compact CNC lathe designed to prepare accurate round tensile specimens and support consistent, high quality tensile test results. The system features our TensileSoft 2.0 touchscreen interface and enhanced 15 inch controller, allowing any operator, with or without machining experience, to quickly prepare specimens to your required dimensions. By selecting a common specimen size from our built in standards library (ASTM, ISO, DIN, etc.) or entering custom values using the touchscreen keypad, the TensileTurn CNC Classic Upgrade Model is ready to machine materials up to 55 HRC. With efficient workholding and the ability to process multiple stacked samples, it helps reduce lab delays and supports accurate, repeatable specimen preparation in minutes. Notching machine to prepare the best U & V-notch impact samples.

TensileTurn CNC Classic Upgrade Model is a compact CNC lathe designed for accurate round tensile specimen preparation. The system uses TensileSoft 2.0 with a 15 inch touchscreen controller, so operators, even without machining experience, can prepare specimens by choosing a standard from the built in library such as ASTM, ISO, or DIN, or by entering custom dimensions on the touchscreen keypad. The machine is also equipped with FANUC software for CNC control and programming. The Classic Upgrade model supports CNC operations such as turning, facing, knurling, sanding, drilling, and cutting. It can prepare multiple specimen types including standard round tensile specimens, sub size specimens, threaded tensile specimens, button head tensile bars, fatigue specimens, and other round testing specimens. Operators can load round, square, or irregular stock, and the system is intended to produce consistent specimen dimensions for tensile testing. The system is positioned as a lab focused solution that helps avoid delays linked to using general machining centers. With quick setup and simple operation, it is intended to allow personnel to prepare high quality round tensile specimens for testing in minutes.



ACCURATE AND REPEATABLE RESULTS



NO SURFACE GRINDING NEEDED



SMALL FOOTPRINT



PERFECT FOR UNTRAINED CNC MACHINIST



SUPER USER-FRIENDLY



FREE PROOF OF CONCEPT

FEATURES

- 2.2 kW heavy duty motor
- 3 jaw universal manual chuck
- Tailstock center
- 25 L coolant tank capacity
- 16 inch long and 2 inch diameter capacity

CONTROLLER

Our easy to use touchscreen controller is equipped with our complete FANUC 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, and dual mode cutter compensation. Along with the tensile milling software interface, FANUC also allows the operator to access the MACH4 Industrial CNC Software used for professional CNC control functions. Our FANUC software is constantly having new features developed, and every TensileMill CNC system includes updates at no additional cost.

TECHNICAL SPECIFICATIONS

TENSELTURN CNC			TRAVEL	METRIC	EMPERIAL	
Total connection		3.5KW		X axis	180mm	7.1"
Main motor power		2.2KW		Z axis	465mm	18.3"
Coolant pump power		40W		X axis rapid speed	6000mm/min	236"/min
CAPACITY	METRIC	EMPERIAL	Z axis rapid speed	8000mm/min	315"/min	
Swing over bed	Ø300mm	Ø11.8"	ACCURACY	METRIC	EMPERIAL	
Swing over cross slide	Ø200mm	Ø7.8"	Position accuracy	X±0.02mm Y±0.03mm	Z±0.002" Y±0.001"	
Center width	600mm	23.6"	Repeat position accuracy	X±0.02mm Y±0.03mm	X±0.0007" Y±0.0007"	
Center height	140mm	5.5"	TAILSTOCK	METRIC	EMPERIAL	
SPINDLE	METRIC	EMPERIAL	Tailstock taper	MT2		
RPM	300		Tailstock sleeve diameter	Ø30mm	Ø1.18"	
Spindle nose	104		Tailstock sleeve travel	80mm	3.15"	
Spindle taper	MT4		POWER			
Spindle bore	Ø26mm	Ø1.02"	Input Voltage	220 V 3ø		
Spindle speed range	30-4000mm	12-157.5°	DIMENSIONS	METRIC	EMPERIAL	
Lathe chuck	Ø125mm	Ø4.92"	Overall dimension (L*W*H)	1980 x 705 x 150mm	62.2" x 27.75" x 5.91"	
TOOL CHANGER	METRIC	EMPERIAL	Packing size (L*W*H)	939 x 945 x 1446mm	72" x 37.2" x 70.42"	
Type	electric		Net weight/Gross weight	850KG	1873.LB	
Numbers of tool position	4		Tank capacity	25L		
Section of tool (Max)	12*12mm	0.47x0.47"	Connection Requirements	Pneumatic		



UNIQUE SOLUTION FOR TENSILE AND IMPACT SPECIMEN CNC PREPARATION