



TensileTurn CNC Classic Upgrade



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- 🌐 ACCURATE AND REPEATABLE RESULTS
- 🌐 NO SURFACE GRINDER NEEDED
- 🌐 SMALL FOOTPRINT
- 🌐 PERFECT FOR UNTRAINED CNC MACHINIST
- 👍 SUPER USER-FRIENDLY
- 🌐 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 GRINDER 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

TENSILETURN 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	8000mm/min	325"/min
Swing over bed	Ø300mm	Ø11.8"		
Swing over cross slide	Ø200mm	Ø7.8"		
Center width	600mm	23.6"		
Center height	140mm	5.5"		
SPINDLE	METRIC	EMPERIAL		
RPM	300			
Spindle nose	104			
Spindle taper	MT4			
Spindle bore	Ø26mm	Ø1.02"		
Spindle speed range	30-4000mm	12-1575"		
Lathe chuck	Ø125mm	Ø4.92"		
TOOL CHANGER	METRIC	EMPERIAL		
Type	electric			
Numbers of tool position	4			
Section of tool (Max)	12x12mm	0.47x0.47"		
POWER				
Input Voltage	220 V 3ph			
DIMENSIONS	METRIC	EMPERIAL		
Overall dimension (L+W+H)	1090 x 705 x 1320mm	42.5" x 27.7" x 52.0"		
Packing size (L+W+H)	930 x 540 x 1040mm	32.2" x 21.2" x 40.9"		
Net weight/Gross weight	850KG	1873LB		
Tank capacity	25L			
Connection Requirements	Pneumatic			

UNIQUE SOLUTION FOR TENSILE AND IMPACT SPECIMEN CNC PREPARATION