



TensileMill CNC MINI – Compact Flat Tensile Specimen Preparation Machine

SPECIFICATIONS

The newly enhanced TensileMill CNC MINI has quickly climbed through the ranks as the optimal tensile sample preparation system in the global market place. Since the recent upgrades, the MINI surpasses our Classic model by virtually all parameters. Due to the MINI's small footprint, this compact tensile sample preparation system is ideal for accommodating smaller space requirements.

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TensileMill CNC MINI

Compact Flat Tensile
Specimen Preparation Machine

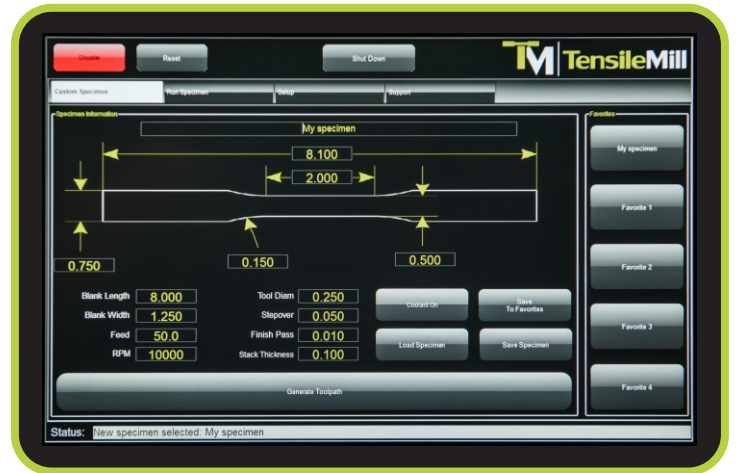


GENERAL

TensileMill CNC MINI – Compact Flat Tensile Test Sample Preparation is better than ever. Do not let the apparent "size" of the unit fool you. This machine is specifically designed for the ultimate flexibility in tensile specimen preparation as well as full CNC machining capabilities. Since the latest upgrades to the system, the MINI is now superior to our Classic model by virtually all parameters. You can now benefit from a smaller footprint, larger table size, higher power, and better precision & repeatability all for a lower price!

It has never been easier to prepare high quality tensile specimens with ease. Our TensileMill CNC MINI comes standard with a 10" LCD screen equipped with our famous Tensile Software. The machine is operated by our powerful Carbon software with a user-friendly tensile milling interface. The interface allows the operator to quickly and easily enter your desired tensile specimen size based on the parameters listed in your ASTM, ISO, DIN, JIS or other industry standard. By simply entering your required measurements, the machine is ready to mill in seconds. Despite the small size of this machine, the standard 2.2kW (3hp) Water Cooling Spindle along with our designated tooling can prepare soft, hard and Inconel materials in large volumes.

The tensile software interface saves and provides quick access to previously entered specimen sizes. It also includes a diverse library of preprogrammed tensile specimens allowing the operator to quickly launch a program without having to enter any measurements at all. With your new TensileMill CNC MINI - Compact Flat Tensile Sample Preparation machine you may also upgrade to our Carbon software interface, making this unit a hybrid of tensile sample and a CNC machine. Our intuitive and powerful CNC control system comes with virtually endless possibilities.



CONTROLLER

Our easy to use touch screen controller can be upgraded to a complete Carbon software. The upgrade includes a 21" touch screen with 64 Gb of storage, 4 Gb of RAM, WiFi, Ethernet, USB ports, macro B programming, 254 tool 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.

SPECIFICATION

TensileMill CNC MINI is a compact high speed, machining center designed for the testing industry in mind. Although small in size, TensileMill CNC MINI is built on a heavy cast iron frame and all axes slide smoothly on linear rails. 24,000 RPM ISO20 spindle and high powered servos provide excellent machining capability. The newly enhanced TensileMill CNC MINI has quickly climbed through the ranks as the optimal tensile sample preparation system in the global market place. Since the recent upgrades, the MINI surpasses our Classic model by virtually all parameters. Due to the MINI's small footprint, this compact tensile sample preparation system is ideal for accommodating smaller space requirements. The machine can also prepare virtually all types of tensile specimen standards, as well as it has a full scope of all purpose CNC machining capabilities. The advanced software allows to the operators to reach accurate and repeatable milling results in seconds with a push of 2-3 buttons. Don't let the small size fool you, the MINI is capable of accommodating medium to high volumes of tensile specimen preparation for materials with hardness values of up to 60HRC.

Technical Specifications TensileMill CNC MINI

Dimensions	44.5 x 42.00 x 70.0 in (1130 x 1066 x 1778mm)
Working/ Traveling Area	400mm x 400mm x 200mm (15.75 x 15.75 x 7.87 inch)
Weight	1500 lb (680 kg)
T-Slot Size	12mm (0.472 inch)
Unit Dimensions: Closed Door (LxWxH)	1250 x 1100 x 1700mm (49.2 x 43.3 x 67 inch)
Unit Dimensions: Open Door (LxWxH)	2100 x 1200 x 1700mm (82.7 x 47.2 x 70 inch)
Suggested Floor Dimensions (LxWxH)	2100 x 2000mm (82.7 x 78.5 inch)
Rotating Speed of Spindle	24,000rpm
Spindle Motor Power	2.2 KW (3hp) Water Cooling spindle
Taper	ER 20 Collet / ISO20 Optional
Servo Power	0.54 hp (400 W)
Servo Torque	566.0 oz-in (4.0 Nm)
Max Feedrate	500 ipm (12.7 m/min)
Input Voltage	220 V 1 ph
Controlling Code	Tensile Soft – TensileMill interface on 10" Touch Screen
Full Carbon CNC Package	Upgrade Available
Loudest Volume at Point of Entry	70 – 90 dB
Position Repeatability Accuracy	0.01mm / 0.0003"
Max Engraving Speed	10,000mm/min / 394"/min
Motor Drive	Servo
Drive Mechanism	Precision Ballscrew
Tool Shank	Up to 12.00mm / 0.47"
Frame	Cast iron
Connection Requirements	Pneumatic (optional)