TensileMill

TensileMill CNC MINI
Compact Flat Tensile Specimen Preparation Machine

- SMALL FOOTPRINT
- PERFECT FOR UNTRAINED CNC MACHINIST
- TURNKEY SOLUTION
- SUPER USER-FRIENDLY
- ACCURATE AND REPEATABLE RESULTS
- FREE PROOF OF CONCEPT

DESCRIPTION

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 (2022 Upgrade)

GENERAL

TensileMill CNC MINI – Compact Flat Tensile Test Sample Preparation is better than ever. Do not let the apparent "size" of the unit full you. This machine is specifically design 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 foot print, larger table size, higher power, and better precision & repeatability all for a lower price!

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

It has never been easier to prepare high quality tensile specimens with ease. Our TensileMill CNC MINI comes standard with a 21" 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.

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, 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.

SPECIFICATIONS

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.

TECHNICAL SPECIFICATIONS

DIMENSIONS	
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) 1829 x 1092 x 1321mm (72 x 43 x 52 inch)
Unit Dimensions:	Open Door (LxWxH) 1829 x 1855 x 1321mm (72 x 73 x 52 inch)
Suggested Floor Dimensions	(LxWxH) 2100 x 2000mm (82.7 x 78.5 inch)

SPINDLE	
Rotating Speed of Spindle	24,000rpm
Spindle Motor Power	2.2 KW (3hp) Water Cooling
Taper	spindle

SERVO	
Servo Power	0.54 hp (400 W)
Servo Torque	566.0 oz-in (4.0 Nm)
Max Feedrate	500 ipm (12.7 m/min)

POWER	
Input Voltage	220 V 1 ph
Total Power	3.3 kW (15 Amps)

CONTROLLER	
Controlling Code	Tensile Soft – TensileMill interface on 21" Touch Screen Control
Full Carbon CNC Package	Upgrade Available

MACHINE VOLUME	
Loudest Volume at Point of Entry	70 – 90 dB

ADDITIONAL FEATURES	
Position Repeatability Accuracy	0.01mm / 0.0004"
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)

OPTIONS:	
TurnKey Package	Standard with Main Instrument
(1) .250" ER Collet	
(1) .250" Shank Endmill	
(1) Custom Tensile Clamp	Applicable for ASTM, ISO, DIN, JIS and EN standards
Fixture	Upgrade Available

NOTE:

TensileMill CNC MINI is undergoing door design upgrade to improve safety standards and user-friendliness.

PERFECT SOLUTION FOR TENSILE AND ALL OTHER CNC MACHINING REQUIREMENTS