TensileMill

TensileMill CNC

Classic Upgrade

- **FLAT TENSILE & IMPACT SPECIMEN PREPARATION**
- **NO SURFACE GRINDER NEEDED**
- **SMALL FOOTPRINT**
- **PERFECT FOR UNTRAINED CNC MACHINISTS**
- **SUPER USER-FRIENDLY**
- **FREE PROOF OF CONCEPT**

DESCRIPTION

Experience unparalleled ease of use with the **TensileMill CNC - Classic Upgrade**, the world's first flat tensile and impact test specimen preparation machine. Our innovative TensileSoft™ design, integrated with the Fanuc controller, sets a new standard for simplicity, catering to both non-trained and experienced CNC operators.

This versatile unit is perfect for specimens up to 14" (350mm) in length, 2" (50mm) in width, and 0.5" (12.5mm) in thickness. Equipped with an industrial-grade 3.2kW (4.3hp) spindle, it offers ±0.13mm accuracy and ±0.02mm repeatability, covering virtually all ASTM, ISO, DIN, and JIS standards. The machine can handle samples up to 60 HRC, and with our triple clamping fixture, it prepares up to 3 sets of 1.0" thick stacks efficiently and accurately every time.

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TensileMill CNC - Classic Upgrade

2in1 Flat Tensile And Impact Specimen Preparation Machine

GENERAL

TensileMill CNC - Classic Upgrade is the world's first hybrid system capable of accurate and repeatable preparation of both Impact and Flat Tensile Specimens, offering a truly comprehensive in-house solution for your testing needs. Additionally, TensileMill CNC - Classic Upgrade can be complemented by an Impact / Pendulum test specimen notching machine to prepare the best U & V-notch impact samples.

- **NO SURFACE GRINDER NEEDED**
- **REDUCED VIBRATION AND NO-CHATTER**
- **SMALL FOOTPRINT**
- **PERFECT FOR UNTRAINED CNC MACHINISTS**
- **TURNKEY SOLUTION FOR FLAT TENSILE AND IMPACT SPECIMEN PREPARATION**
- **BEST ON MARKET HYBRID SPECIMEN FIXTURE**
- **SUPER USER-FRIENDLY**
- **FREE PROOF OF CONCEPT**

The TensileMill CNC - Classic Upgrade delivers accurate and stable metal impact sample preparation in line with ASTM E23 requirements. Designed to save operators up to 90% of preparation time, it can prepare up to 8 samples simultaneously, making it a true game-changer in tensile and impact test specimen preparation.

FEATURES

- Rugged cast iron frame and linear guide ways provide a stable foundation for high-speed machining
- Automatic Oil Lubrication for the Rails and Bearings
- The TensileMill CNC software is regularly updated and expanded. Major changes are notified and updates are performed remotely at no additional cost.
- The software includes a library of preprogrammed ASTM, ISO, JIS, and DIN specimen sizes.
- Easily program your own specimen dimensions by entering the gauge length, width of the reduced section, radius of the filet, total length of the specimen, length of the reduced section, length of the shoulders, and the width of the shoulders.
- The latest FANUC controller allows operators to fully utilize the machine for custom programming of other shapes or parts.

COMPREHENSIVE SOLUTION FOR METAL SAMPLE TESTING PREPARATION

TensileMill CNC - Classic Upgrade is perfect for CNC metal impact test specimen preparation capable of preparing the two most common pendulum impact test specimens of 10x10x55mm and 7.5x10x55mm in compliance with ASTM E23 standards. For industries requiring reliable metal testing equipment, TensileMill CNC - Classic Upgrade simplifies the Charpy / Izod impact test CNC preparation process, supporting both impact and tensile tests. This makes it the top solution for ASTM E23 compliant specimen preparation.

Designed for precise impact test sample machining, TensileMill CNC - Classic Upgrade ensures every metal specimen complies with ASTM E23. Our CNC solutions cater to all your metal specimen preparation needs, providing a seamless experience for ASTM E23 tests in Ontario. Whether for impact test samples or Charpy test ASTM E23 preparation, TensileMill CNC - Classic Upgrade is your choice for precision and efficiency.

Experience the future of metal testing with TensileMill CNC - Classic Upgrade. It meets and exceeds ASTM E23, optimizing your testing processes with reliable and efficient technology. Enjoy the unique advantage of our 2-in-1 system, capable of preparing both impact and flat specimens with unmatched accuracy.

TensileMill clients can benefit from a turnkey solution for their impact specimen sample preparation by opting for the Notching and Broaching System for V-Notch and U-Notch needs. These motorized solutions will allow you to prepare up to two notched samples at a time in accordance with ASTM standards, with just the push of a button. Our TensileMill CNC Classic Upgrade can also do impact sample preparation.

The Classic Upgrade model is the first on the market all-in-one solution for tensile specimen preparation and impact sample preparation. The unit also offers user-friendly interface allowing for project versatility.

TECHNICAL SPECIFICATIONS	IMPERIAL	METRIC
Working/ Traveling Area	15"/ "x 15"/ "x 8"	40 x 40 x 20 cm
Gantry Clearance (Distance between Gantry and Table Top)	7.87"	200 mm
Spindle Nose Clearance (Distance between spindle nose and Table Top)	1.97"	50 mm
Spindle Motor	3.2 KW Water Cooling Spindle	
Taper	ER 20 Collet / ISO20 Optional	
X/Y/Z Drives	High precision PMI rolling ball screw drives	
X/Y/Z Axis Servo Motors	FANUCNSK	
X/Y/Z Axis Bearings	NSK Ball Bearings (Precision Grade) - Made in Japan	
X/Y/Z Axis Max Traverse Speeds	10,000 mm/min	
Feed Rate	1-3,000 mm/min	
Positioning Precision	± 0.13 mm	

TECHNICAL SPECIFICATIONS	IMPERIAL	METRIC
Repeatability	± 0.02 mm	
Coolant Pump Flow	± 20 L/min	
Rotating Speed of Spindle	24,000rpm	
Max Torque at Low Speeds	2.8 N.m	
Frame	Heavy Duty Fully Casted Machine Body and Frame on Casters	
Controller Interface	Fanuc Touch Screen Controller (Upgrade 15.6" Touch Screen Interface Di-MP)	
Table	T-Slot Cast Iron Working Table –	
Operating Voltage	220V / 50/60Hz / 3 Phase	
Unit Dimensions: Closed Door (WxDxH)	59" x 52" x 79"	1.5 x 1.35 x 2 m
Suggested Floor Dimensions (LxWxH)	82.7 x 78.5"	2100 x 2000mm
Weight	2,640lbs	1,200kg

Stay ahead of the competition and optimize your testing processes with the TensileMill CNC - Classic Upgrade. Be a pioneer in your industry by leveraging our cutting-edge technology, enabling your operators to prepare flat and impact tensile specimens with unmatched precision, efficiency, and compliance with ASTM, ISO, DIN, JIS, and other industry standards. Choosing the TensileMill CNC - Classic Upgrade gives you a significant advantage, streamlining your operational workflow and leaving your competitors behind. Don't miss this opportunity to revolutionize your specimen preparation process and elevate your business to new heights.

UNIQUE SOLUTION FOR TENSILE AND IMPACT SPECIMEN CNC PREPARATION