



THE TENSILEMILL WAY



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ABOUT TENSILEMILL

TensileMill CNC is empowering operators of all skill levels to attain top-tier quality control results through precise and user-friendly tensile sample preparation solutions. We offer small and large high-speed machining centers specifically designed for the preparation of tensile test specimens, whether flat or round. The solutions assure the attainment of the highest quality and repeatability in results. Our main goal is to provide clients with a sample preparation method that is not only precise, dependable, and consistent but also extremely user-friendly and easy to use, catering to operators of virtually any level of experience. It is essential to recognize that inadequate sample preparation procedures can have a direct impact on the accuracy of tensile testing, impact testing and other testing results, in turn creating large scale issues as well as dissatisfied clients and suppliers. By employing TensileMill, you can completely eliminate these potential issues and ensure a speedy, seamless process of sample preparation leading to nothing but reliable test results.

WHO CAN BENEFIT FROM TENSILEMILL CNC?

					
TESTING FACILITIES	EXTRUSION MANUFACTURERS	HEAT TREATING FACILITIES	METAL FABRICATORS	AUTOMOTIVE MANUFACTURERS	TOOL MANUFACTURERS
					
QUALITY CONTROL LABORATORIES	AEROSPACE	R&D FACILITIES	GOVERNMENT FACILITIES	EDUCATIONAL FACILITIES	AND MORE...

Additionally, our global partnerships with quality manufacturers of Universal Tensile Testing Machines, Impact Testing Systems and other Quality Control equipment allows TensileMill CNC, Inc. to offer a one-stop sourcing solution for a wide variety of related quality control equipment.

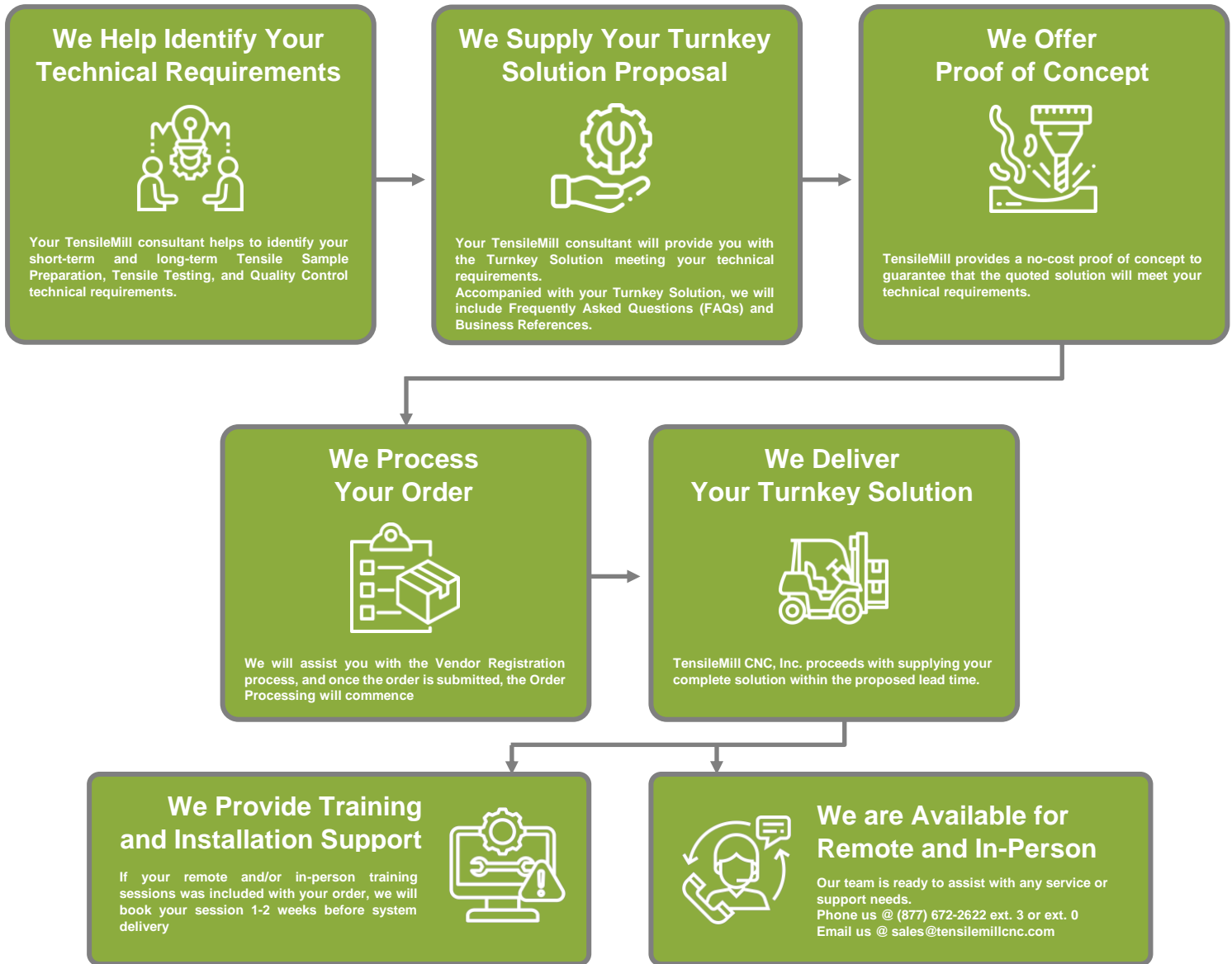


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JUSTIFYING YOUR INVESTMENT

TensileMill's systems are meticulously engineered to enhance productivity and accuracy in the process of preparing tensile samples. Here are the key factors that set us apart from our competitors.

#1. TensileSoft™ – The Most User-Friendly CNC Tensile Sample Preparation Software with General Purpose CNC Machining

One of the standout features of all TensileMill CNC systems is the inclusion of our industry-leading TensileSoft™ interface. This user-friendly interface allows operators to effortlessly input their desired industry standards, such as ASTM, ISO, DIN, JIS, and more, with just a few button presses. With each operation, our machines precisely and consistently mill the starting blanks to meet the specified standards. This exceptional functionality alone translates into significant savings in terms of labor costs and eliminates the need for costly training programs and the development of skilled, in-house CNC operators.



TensileMill CNC Inc. is committed to providing precise and reliable preparation solutions for tensile specimens in accordance with nearly all industry standards. Our solutions are designed to meet the tolerances specified by industry standards, boasting a position repeatability accuracy of 0.01mm (0.0004") or better. This level of precision exceeds the requirements of all known industry standards, guaranteeing the consistent and confident preparation of accurate specimens with the utmost safety and efficiency. In simpler terms, you can rely on TensileMill CNC to precisely prepare your flat and round tensile specimens according to your specific requirements.



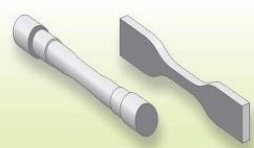
Moreover, the Tensile Software provides a seamless experience for adding and adjusting specimen sizes through our intuitive touch screen interface. This feature is available for both flat specimens on our mills and round specimens on our lathes. To witness the ease and convenience of our interface, we invite you to watch our informative video: [Link to Interface Vide](https://www.youtube.com/watch?v=vLTGg8jNYEg)



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Want to Confirm TensileMill System is the Right Solution for Your Materials? Send Your Specimens to TensileMill!

Our clients find great reassurance in entrusting their samples to our production facility. We offer a comprehensive service that includes milling your tensile samples, documenting the entire process through pictures and professional videos, and returning the samples to you for inspection. Additionally, we provide our best engineering recommendations based on your samples. If you would like to benefit from our free sample preparation service, simply inform us, and we will handle the entire process at no cost to you. We are committed to ensuring your satisfaction and facilitating your sample preparation needs. [Contact us](#) today.

Major Benefits:

- Free and no obligation service available to all of our new and existing clients.
- Eliminate your risks by getting a proof of concept with your desired model before making a financial investment.

#2. Bringing the solution(s) in-house means having complete control over your sample machining and testing process and eliminating your outsourcing costs.

By bringing the TensileMill system in-house, you gain the ultimate control over tensile sample preparation and the tensile testing process. You no longer have to worry about unjustified lead times of specimen preparation associated with outsourcing the service to a third-party machine shop. Instead, you will be able to produce your desired tensile specimens easily, accurately and in minutes. This in turn will solidify a better working relationship with your clients and/or suppliers and will bring higher levels of efficiency to your production and quality control procedures. The outsourcing costs can add up over the years, but now you can eliminate them entirely.







Major Benefits:

- Complete control over the lead times for all your testing processes
- Entirely eliminate your personal or clients' production result delays for days and sometimes weeks at a time
- Enhanced business opportunities with existing clients and suppliers



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#3. Alleviate the Stress on Your Production Machine Shop by Putting Complete Control of Tensile Sample Preparation Process in the Hands of Quality Control Personnel



By incorporating a dedicated Tensile Sample Preparation system within your organization, you can eliminate all disputes between the CNC Operators and Quality Control Team for good! No longer will there be a struggle for priority on the existing machines. The introduction of a separate Tensile Sample Preparation system ensures that the production of your large machining center remains uninterrupted, as it will no longer be affected by the procedures involved in preparing tensile specimens. Moreover, your quality control team will no longer be dependent on the machine shop to provide them with the necessary specimens for testing. Having an in-house Tensile Sample Preparation system empowers your quality control team to maintain their testing practices without relying on external sources. This streamlined approach enhances efficiency, reduces conflicts, and ensures a seamless workflow throughout your organization.

Major Benefits:



- Each member of your team will have a designated machine for a designated job to be performed efficiently and effectively.
- Prevent staff conflicts over sample preparation on a standard CNC milling center.
- Eliminate production interruptions associated with sample preparation on your standard CNC milling centers



#4. Compact and Quiet Tensile Sample Preparation Systems for Space-Constrained QC Labs

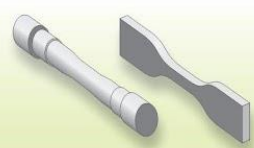
A significant portion of TensileMill's clientele consists of Quality Control Laboratories in government, educational, and manufacturing sector facilities. However, these facilities often have limited space capacity to accommodate a CNC system. That is why our compact machines are the ideal solution for in-house tensile sample preparation processes. The good news is that our most common tensile specimen preparation systems have dimensions of only 83" x 80" (210 x 203 cm) in width and depth,



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and 70" (178 cm) in height. This compact size allows for easy integration of the machine into your facility, fitting comfortably in any desired location.

Furthermore, our systems offer the added benefit of surprisingly low noise levels. The loudest entry point volume ranges between 60-90 dB, ensuring a safe and comfortable workplace environment for your operators.

With TensileMill, you can overcome space limitations without compromising on performance or operator well-being. Our compact and quiet machines enable seamless integration into your facility while providing efficient and accurate tensile sample preparation.

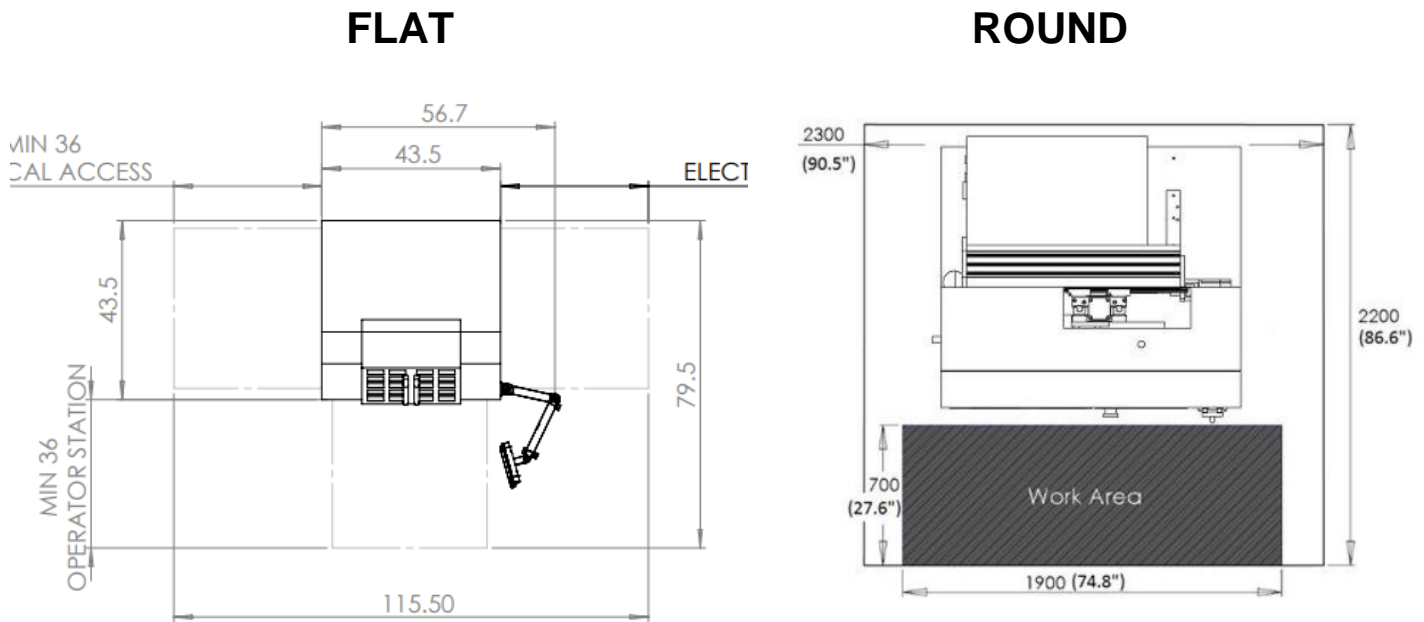




Fig. 4 Top view of working space, all dimensions in mm



Major Benefits:

- Ability to fit your TensileMill system in virtually any workspace despite room limitations
- Eliminates the needs for specialty space or facilities to accommodate your tensile sample preparation equipment
- Low noise levels for safe operation in laboratory environment



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#5. Simple, Low Maintenance Machines

One of the standout advantages provided by TensileMill CNC Inc. is the focus on easy and cost-effective maintenance across all our machines. We prioritize user-friendly maintenance procedures to ensure smooth operation and longevity of our equipment.

To assist with maintenance schedules, all machines are supplied with an operational manual that serves as a valuable resource. The daily and weekly maintenance procedures for our systems are quick and incur minimal costs.



The primary expenses associated with operating our machines are related to consumables and bi-annual oil and coolant changes. While consumable pricing may vary based on individual user requirements, the costs for coolant and waylube typically range from \$95.00 to \$150.00 annually. These [spare parts and consumables](#) are mostly readily available and can be easily sourced via TensileMill directly. In-personal services are also available should you wish to opt. into our maintenance plans.

Major Benefits:

- Truly easy system maintenance prevents constant operator involvement and unforeseen long-term expenses
- Low annual maintenance cost relative to virtually any other type of similar equipment.



#6. World-Class Service and Support You Can Rely On

Highly Skilled North American CNC and UTM Engineering Team:

TensileMill takes pride in its dedicated North American CNC and UTM engineering team, ensuring expertise in user-friendly and low-maintenance equipment. Our team is committed to delivering efficient and prompt support whenever needed, with offices located in the USA and Canada.

Global Presence and Partnerships:

TensileMill has established strong partnerships throughout North America, Europe, and East Asia, ensuring swift resolution of technical concerns. Our teams in the USA and Canada, coupled with a global network, emphasize our commitment to addressing your needs comprehensively, wherever you may be.



Remote and In-Person Support:

Our team offers both remote and in-person assistance to get your operations back on track quickly. Recognizing the importance of minimizing downtime, TensileMill prioritizes responsive client service and technical expertise via remote and in-person technical support services. No matter the challenge, we got your back.






Annual Calibrations:



Annual calibrations services for Universal Testing Equipment, Impact Tester and Hardness Testers are available globally.



Major Benefits:

- Prompt and reliable support from qualified North American and/or European CNC engineering team
- Eliminate the risk of dealing with resellers of industrial equipment employing non-qualified sales representatives with little to no CNC machining experience.
- Remote or in-person readily available global service
- Eliminate the system support concerns even if your facility is located in a different country.



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#7. Standard Warranty and Extended Warranty

When you choose TensileMill CNC Inc., your equipment is backed by a comprehensive 12-month warranty from the date of delivery. This warranty covers the machine from top to bottom, excluding parts affected by normal wear and tear. We prioritize your satisfaction and ensure that your investment is protected.

At times, TensileMill includes a complimentary extended warranty package ranging from 24 to 36 months. These offers are usually available for a limited time and should be taken advantage of within 30 days. They can be obtained by issuing a purchase order.

In addition to the warranty, we offer a unique and valuable bonus: our Life-Time Consultation Advantage. This service provides ongoing support, problem resolution, and technical consultations tailored to your specific requirements for the entire lifespan of your equipment. Whether you need assistance with minor repairs, calibration services, or any other support, our Life-Time Consultation Advantage is available to you at no additional cost.

At TensileMill CNC Inc., we go beyond the standard warranty to offer a comprehensive Life-Time Consultation Advantage, providing you with ongoing support and technical guidance throughout the life of your equipment.



NOTE: Additional warranty options are available for purchase with the main system.



Major Benefits:

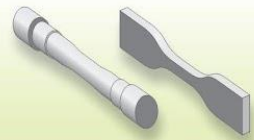
- Minimum of 12 Months Manufacturing Warranty
- Extended Warranty options available
- Life-Time Consultation Advantage will cover your minor support needs, avoiding any further financial investments for the lifetime of the system



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OUTSOURCING VS BRINGING EQUIPMENT IN-HOUSE

Companies that outsource tensile sample preparation and testing to third-party laboratories often face several significant challenges that impact their operations. The major 4 challenges include:

Extended Lead Times:

Testing Delays: Third-party labs serve multiple clients, potentially leading to longer lead times that can disrupt production and slow down product development.

Limited Control: Companies must rely on external schedules, and unexpected lab issues (equipment, personnel) can further delay timelines for sample prep and testing.

Loss or Damage to Shipments

Lost/Damaged Samples: Risk of shipment loss or damage causes delays. This is especially an issue for specialty products with NDA requirements.

Shipping Costs/Delays: Transportation costs add up, and logistical or customs delays can worsen lead times, especially internationally.

Quality Control Concerns:

Inconsistent Standards: Labs may use different protocols, leading to unreliable results, affecting certification and compliance.

Miscommunication: Misunderstandings can result in improper sample prep or testing, requiring retesting and causing delays.

Limited Flexibility / Responsiveness:

Customization Limits: Labs may lack flexibility for urgent or customized requests, delaying urgent tests.

Communication Delays: Additional layers of communication slow feedback and issue resolution, leading to inefficiencies.

Overall Impact

These challenges cause inefficiencies, unexpected costs, and delays, affecting competitiveness, reputation, and client expectations.



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BRINGING EQUIPMENT IN-HOUSE: RETURN ON INVESTMENT

Bringing TensileMill's Sample Preparation and Testing Equipment in-house addresses all four major challenges and offers the following returns on investment:

The below charts will help analyze the tangible financial costs associated with outsourcing these services to a Third Party



Based on a Volumes of 250 - 1000 Samples Annually



Description	@250 Samples	@500 Samples	@1000 Samples
Annual Sample Volume	250	500	1000
Cost of Machine and Sample Testing Bundle	\$ 200.00 / sample	\$ 195.00 / sample	\$ 190.00 / sample
Annual Cost	\$ 50,000.00	\$ 97,500.00	\$ 190,000.00
5-Year Cost	\$ 250,000.00	\$ 487,500.00	\$ 950,000.00
Average Turnaround Lead Times (Batch)	1-4 Weeks Based on Sent Sample Volume		
Additional Notes	<ul style="list-style-type: none"> • Pricing in USD • Shipping and Insurance Costs are not included • By plugging your numbers into the above chart based on your actual costs, your team should be able to clearly identify the tangible financial investments 		

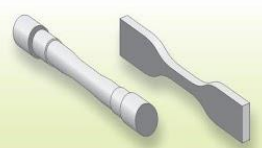
*** The chart above is based on illustrative figures derived from North American market averages for CNC shops and ISO 17025 Certified Testing Laboratories.



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THE TENSILEMILL GUARANTEE

At TensileMill, we understand the importance of peace of mind when making a financial investment in equipment. That's why we offer a professional business guarantee in the form of [proof of concept](#), to ensure the quality and reliability of our products and services. Our clients can rest assured knowing that when they entrust their samples to our production facility, they will receive a comprehensive service.

This service includes milling and/or testing your tensile samples, documenting the entire process through pictures and professional videos, and returning the samples to you for inspection. Additionally, we provide our best engineering recommendations based on years of industry expertise. This is how we guarantee that the quoted solution is the right solution for you.

If you'd like to benefit from our free sample preparation service, simply [contact us](#), and we will handle the entire process at no cost to you. We are committed to ensuring your satisfaction and facilitating your sample preparation needs, offering you optimal peace of mind in the quality of TensileMill's equipment.



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ADDITIONAL BENEFITS

Never Stress About the Consumables and Spare Parts

At TensileMill CNC Inc., we prioritize ensuring that spare parts and consumables are readily available for our clients. We maintain a comprehensive stock of spare parts, as well as consumables such as endmills, inserts, and fixtures. In the rare event that a specific item is not in stock, our lead times are minimal, minimizing any potential downtime. Learn more about TensileMill's [consumables and spare parts and additional services](#)

When it comes to consumables, we provide an adequate supply to get you started with your machine. However, if you have existing relationships with tooling suppliers that you prefer to work with, rest assured that our machines are fully compatible with most tooling available on the market. This flexibility allows you to leverage your existing supplier relationships.

One significant advantage of purchasing consumables through TensileMill is that we supply endmills, inserts and fixtures that have undergone rigorous testing with various materials. This ensures the highest level of precision machining for your tensile specimens. By choosing our tried and tested consumables, you can confidently achieve exceptional results with consistent precision.

At TensileMill CNC Inc., we strive to provide a seamless experience by offering readily available spare parts and consumables. Our commitment to precision and compatibility allows you to efficiently operate your machine and achieve superior tensile specimen machining.

- **Fixtures and Inserts:**

The unit comes standard with all the fixtures and inserts required for your specific types of material. This is part of our Turnkey Package with the main machine. Additional inserts and fixtures are typically provided in the BONUS section of the quotation.



- **Endmills**

The flat tensile specimen equipment comes standard with a recommended end-mill for your material application. Softer materials require different endmills than harder materials. Our engineers provide the best recommendation based on the type and hardness of the material that you will be milling and the overall milling volumes.



All spare parts and consumables will be available for TensileMill's systems indefinitely.



- **Coolant:**

The system comes standard with a recirculating water based coolant system. We recommend the following brands for tensile specimen preparation and other CNC machining requirements: Cim Cool, Hocut, and Blaser. All can be purchased locally and TensileMill can assist in finding you a local supplier if required.

Major Benefits:

- Receive a 1 to 2 years included in your consumables starter kit with the purchase of any TensileMill system.
- Non-proprietary parts for the ultimate peace of mind
- Most all consumables and spare parts are either in stock or have relatively short lead times.

What Are the Safety Features of TensileMill Systems?

Each tensile sample preparation machine is designed with the latest, state-of-the-art safety features such as emergency stops, heavy-duty protection covers and more, as part of our Safety-First initiative. We have successfully passed the safety standards by some of the most rigorous inspectors in North America in automobile, aerospace and government R&D facilities. All of our systems are fully enclosed and cannot be accessed by the operator during the cutting cycles.

Major Benefits:

- Fully enclosed systems designed to eliminate operator injuries.

North American Equipment

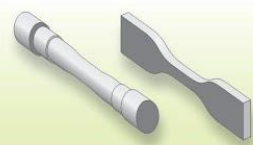
Without exception, all TensileMill CNC Inc.'s machines and consumables undergo the final assembly, quality inspection and manufacturing processes in North America.



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PROFESSIONAL BUSINESS REFERENCES

The Software is astonishing! We particularly enjoy the library of common standards. In our initial discussion of technical specifications, we asked for the machine to be programmed for the ASTM E8 standard based on our customer needs at that time. We were pleasantly surprised to find the software was equipped with many ASTM, ISO, JIS, and DIN standards. This came particularly handy when our recently acquired customers needed us to prepare them with tensile samples according to ISO standards.

Denso Manufacturing and Denso Automotive Group

Happy with our investment. We received a better value at a more competitive price. Before buying, we sourced 3 quotations, including TensileMill. TensileMill met all technical needs and had the added value of the easy to use software interface. The unit was lower priced relative to the competition and fit well in our budget.

Extruded Aluminum Corporation

We specialize in part production with inconel metals. Our materials are upwards of 50HRC and require a tensile tester with 5000 kN capacity. Daily we prepare roughly 30-40 samples. We were out there looking for a robust and user-friendly machine to be operated by our junior engineers in our new R&D division. We had sent our samples to TensileMill to be tested before making the final purchase. The guys at TensileMill turned our samples, made a video of the process and sent the sample back to us for inspection. We were very impressed. TensileMill CNC MINI was the solution for our needs. Over the years, this machine had proven itself over and over to be both powerful and reliable. Since we purchased the MINI, our capacity had increased to roughly 50 samples per day. After months of rigorous work with the unit, the only maintenance expense we have are the endmills. We had looked into purchasing them with other suppliers, however they last about a third of the time that TensileMill's endmills do, yet the cost is about the same.

Merit Technologies World

Before buying the unit, we had never heard of TensileMill CNC Inc. Our trust was earned when TensileMill invited us to visit their facility and see the unit's operation for ourselves. We brought our specimens along for the trip. I must say, that at first I was very skeptical, because I have never heard of a "tensile preparation designated machine". The good news is that skepticism is no longer an issue. We are proud owner of the TensileMill CNC MINI. What more, we really appreciate the way TensileMill handled themselves prior to the purchase and how they are continuously showing their support after the fact. We get occasional courtesy check ups to make sure that we are all set. It is nice to be cared for.

Magna International

Very impressed with the before and after sales service. We got the Tensilemill mini model. Our lab staff had some initial challenges with the set up, however Thomas was extremely helpful in guiding us through the process and getting our guys up and running. The unit works perfectly.

Blue Origin

We very much enjoy our MINI and Industrial Upgrade lathe systems for our steel and composite tensile dog bones. The machines are used daily and perform with excellent accuracy and repeatability. Our quality lab operators are very satisfied and are very comfortable with the machines. Highly recommend.



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Hexion

Fantastic controller design for tensile milling. Thank you!!!

Superior Extrusions, Inc.

Happy with our investment. We received a better value at a more competitive price. Before buying, we sourced 3 quotations, including TensileMill. TensileMill met all technical needs and had the added value of the easy to use software interface. The unit was lower priced relative to the competition and fit well in our budget.

LifeTime Products

I give a 5-star review for TensileMill CNC for their exceptional quality, user-friendliness, and technical support for the purchase of a 100kN Universal Testing Machine.

Firstly, the quality of the machine is exceptional. It is evident that TensileMill CNC takes great pride in their work and pays attention to every detail of the manufacturing process. The machine is built to last, and its precision and accuracy are remarkable.

Secondly, the user-friendliness of the machine is second to none. The software is intuitive and easy to use, and the machine is straightforward to set up and operate. TensileMill CNC provides comprehensive documentation and training, ensuring that their customers get the most out of their machine.

Overall, I highly recommend TensileMill CNC for anyone in the market for a Universal Testing Machine. Their exceptional quality, user-friendliness, and technical support make them the clear choice for anyone looking for a reliable and high-performing machine. Five stars all around!

Soheil S. - University of Arkansas Little Rock

The MINI is an exceptional product that truly exceeds expectations. The team behind this product truly understands the needs of their customers, and they go above and beyond to ensure that the TensileMill CNC MINI is not only functional but also easy to use. The level of customer service is top-notch, and any questions or concerns are promptly addressed. With its user-friendly interface and outstanding performance, the TensileMill CNC MINI is a must-have for anyone in need of precision machining.

It is also nice that all the necessary tooling are either stocked or have relatively low lead times. I particularly like how TensileMill treats us to free consumables, once in a while.

Jeff L. - Engineering - Wheeling Nippon Steel



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