



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 sample preparation solutions.

TensileMill CNC, Inc. provides precision tensile sample preparation solutions using advanced, user-friendly high-speed machining centers integrated with the world's user-friendliest software. The perfect combination of quality and robust use empowering operators of any skill level to get proficient with Tensile Sample Preparation process within hours!

HOW WE HELP CLIENTS

Accelerate Skill Development: Transform inexperienced CNC machinists into proficient operators in just hours. This eliminates training and re-training issues.

Enhance Test Reliability: Eliminate errors from poor sample preparation to ensure consistent, accurate testing.

Streamline Production: Reduce lead times and mitigate outsourcing risks with our comprehensive in-house turnkey solutions.













Deliver Robust Support: Provide both remote and in-person service to guide non-trained CNC operators promptly and effectively.

SPECIALIZED EQUIPMENT AND SERVICES

Benefit to the client: By partnering with leading global manufacturers, TensileMill provides you with state-of-the-art **Universal Tensile Testing Machines, Impact Testing Systems, Hardness Testing Systems, Longitudinal Polishers and more.**

By delivering comprehensive calibration, preventative maintenance, and training services backed by ISO 17025 and other accreditations, TensileMill provides a one-stop solution that streamlines your quality control processes and enhances overall efficiency.

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... |

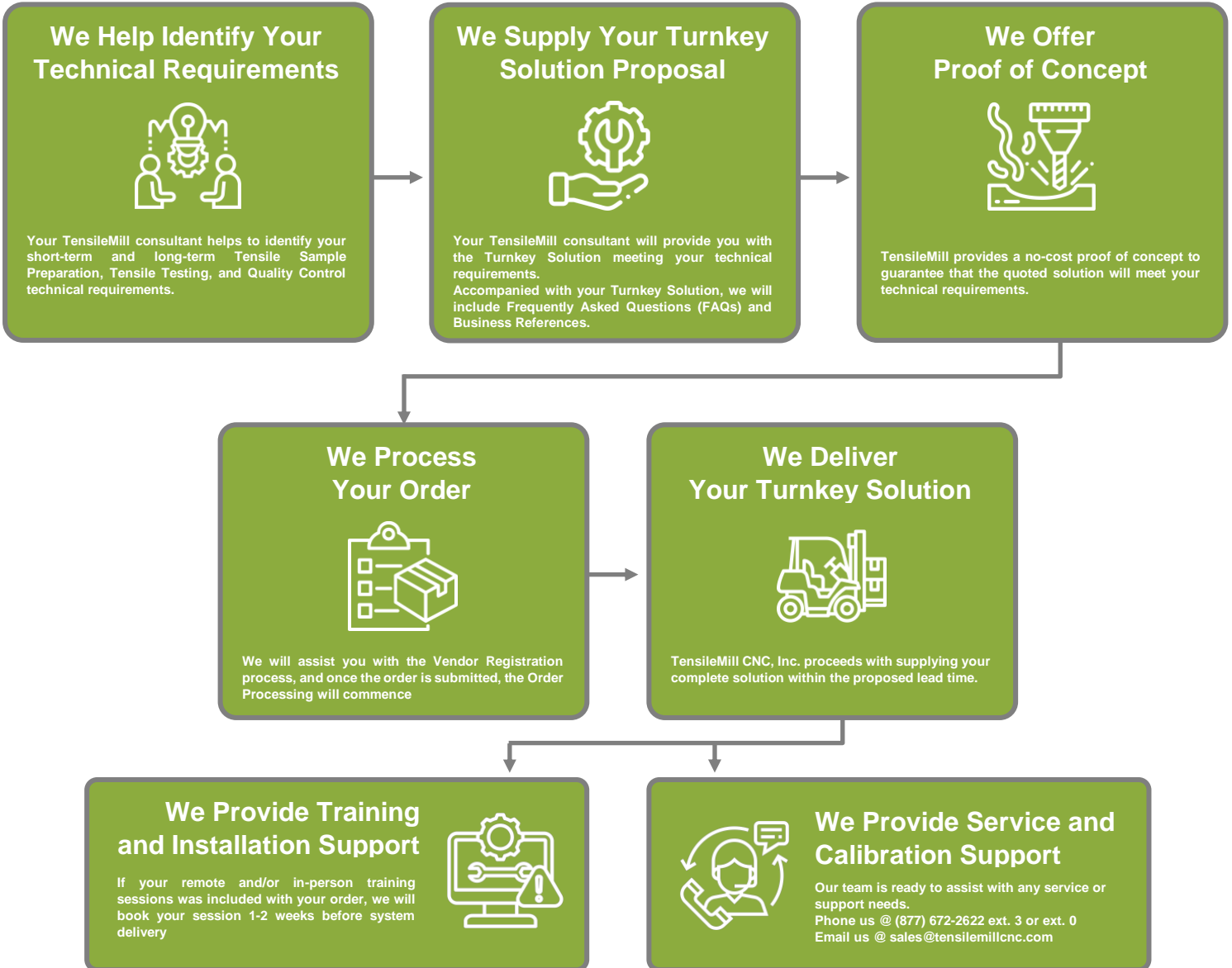


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JUSTIFYING YOUR INVESTMENT

WHY INVEST IN TENSILEMILL CNC, INC.

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 Capabilities

One of the standout features of every TensileMill CNC system is our industry-leading TensileSoft™ interface. This intuitive interface enables operators to quickly select their desired industry standards—such as ASTM, ISO, DIN, JIS, and more—with just a few button presses. This remarkable functionality allows non-trained CNC operators to prepare tensile specimens accurately and reliably every time, resulting in significant labor cost savings and eliminating the need for expensive training programs or the development of skilled, in-house CNC operators.



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 experience the ease and convenience of our interface, we invite you to watch our informative video.



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[Watch Interface Video on YouTube](#)

MAJOR BENEFITS:

Offers complete versatility for virtually all types of tensile sample preparation requirements Enables lightning-fast training of inexperienced CNC operators, making them proficient in tensile sample preparation within just a few hours. Eliminates concerns about retraining new quality control equipment operators.

#2. Gaining You Full Control of Your Testing Process While Eliminating Outsourcing Costs

By bringing the TensileMill system in-house, you gain complete control over both tensile sample preparation and the testing process. This eliminates the high costs and long lead times associated with outsourcing specimen preparation to third-party machine shops. Instead, you can produce the required tensile specimens quickly, accurately, and in just minutes. In turn, this enhances your relationships with clients and suppliers while boosting the efficiency of your production and quality control procedures. Use the [ROI Calculator](#) to assess your current outsourcing expenses and build a compelling business case for your in-house testing needs.





MAJOR BENEFITS:

- Gain complete control over the lead times for all your testing processes, eliminating delays in production results that can last for days or even weeks.
- Eliminate outsourcing costs entirely.
- Enhance business opportunities with existing clients and suppliers, securing consistent year-over-year growth.



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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 disputes between the **CNC Operators** and the **Quality Control Team** for good! No longer will there be a struggle for priority on the existing machines. The introduction of a **dedicated 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.



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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.

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.

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.

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. In order to confirm if in-house testing is the right solution for you, you may use our [ROI Calculator](#). Simply input your operational data to compare your outsourcing expenses and other costs, helping you make an informed decision on streamlining your testing process.

The below charts is a simple representation of financial costs associated with outsourcing tensile testing services.

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 for more accurate data and Business Case Development, please use the [ROI Calculator](#)



THE TENSILEMILL GUARANTEE

At TensileMill, we ensure that your financial investment in equipment comes with complete peace of mind. Our professional business guarantee serves as a **proof of concept**, verifying the quality and reliability of our products and services. We offer a comprehensive service that includes **milling and/or testing your tensile samples**, documenting the entire process through detailed photographs and professional videos, and then returning the samples for your inspection. Additionally, our team provides expert engineering recommendations drawn from years of industry expertise, ensuring that the solution we quote is precisely the right one for your needs. To further demonstrate our commitment, we offer a **free sample preparation service**—simply [contact us](#), and we will handle the entire process at no cost. This is our promise to deliver optimal satisfaction and peace of mind with TensileMill's equipment.



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ADDITIONAL BENEFITS

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

TensileMill CNC equipment is designed for facilities with limited space while ensuring efficient tensile sample preparation. Our compact systems, measuring just 83" x 80" and 70" in height, seamlessly integrate into your workspace without sacrificing performance. Additionally, with noise levels between 60-90 dB, our machines promote a safe and comfortable work environment.

To further assist your maintenance team with machine setup, please feel free to request our comprehensive FAQ sheet on product features and installation guidelines.

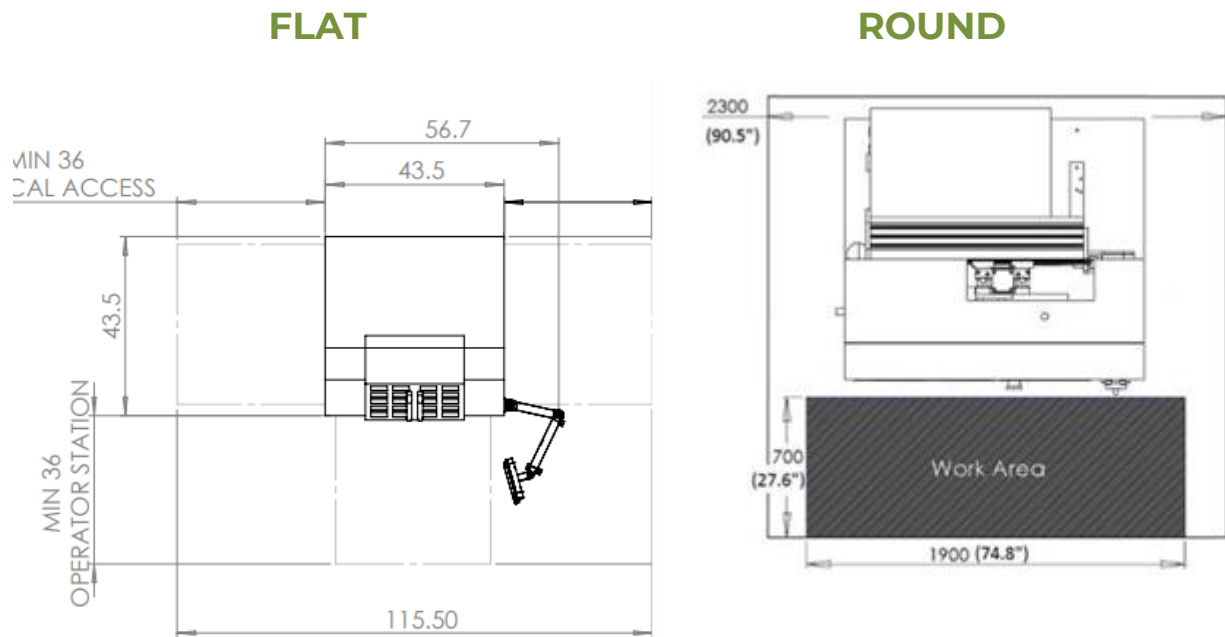


Fig. 4 Top view of working space, all dimensions in inches

MAJOR BENEFITS:

- **Maximize Workspace Efficiency:** Our TensileMill system fits into virtually any environment, sparing you from the constraints of limited space.
- **Reduce Overhead Costs:** Eliminate the need for costly, specialty facilities by integrating our system seamlessly into your existing workspace.
- **Ensure a Safe, Comfortable Environment:** Benefit from low noise levels that enhance laboratory safety and operator comfort.



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#5. Low Maintenance Solution and Service Package Options

TensileMill CNC equipment delivers low maintenance, high efficiency, and significant cost savings with user-friendly procedures that keep downtime minimal. Our optimized spare parts and consumables are not only affordable but also readily available directly from TensileMill, ensuring smooth and uninterrupted operations. In addition, our comprehensive service packages go above and beyond by offering Preventative Maintenance, Troubleshooting, and Training Solutions to empower both new and experienced operators, maximizing productivity and prolonging equipment life. For personalized support or to schedule preventative maintenance, please visit: <https://www.tensilemillcnc.com/request-support>



MAJOR BENEFITS:

- **Minimized Operator Burden:** Our system’s truly easy maintenance prevents constant operator involvement and helps you avoid unexpected long-term expenses.
- **Cost Efficiency:** Enjoy significantly lower annual maintenance costs and free training / re-training bonus value ensuring long-term savings and operational efficiency.

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

Expert Support You Can Trust: Our highly skilled North American CNC and UTM engineering team ensures you receive expert, low-maintenance equipment support, avoiding the pitfalls of unreliable service and minimizing system disruptions.

Global Network for Swift Resolution: With robust partnerships across North America, Europe, and East Asia, we guarantee prompt and effective [technical support worldwide](#), so you can sidestep delays and maintain seamless operations.



Flexible Assistance to Minimize Downtime:

Benefit from both remote and in-person support designed to quickly address issues, reducing downtime and keeping your operations running smoothly.



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Reliable Accredited Annual Calibrations: Our global calibration services for Universal Testing Equipment, Impact Testers, and Hardness Testers meet the full scope of accreditation under [ISO 17025 and NADCAP](#) requirements. This ensures precise, compliant performance, significantly reducing the risks of measurement errors and compliance issues.

MAJOR BENEFITS:

- **Expert Support on Demand:** Enjoy prompt and reliable assistance from our qualified North American and European CNC engineering team, avoiding delays and the uncertainty of unqualified service.
- **Flexible Global Service:** Benefit from readily available remote or in-person support worldwide, minimizing operational disruptions regardless of your location.
- **Peace of Mind Anywhere:** Eliminate concerns about system support even when your facility is located overseas, ensuring seamless operations and continuous service.

#7. Standard Warranty and Extended Warranty

When you choose TensileMill CNC Inc., your equipment is comprehensively covered from top to bottom with a robust 12-month warranty, along with the option for limited-time complimentary extensions of **36 months**. Our commitment extends further through the Life-Time Consultation Advantage, providing you with ongoing technical guidance, troubleshooting, and support throughout the lifespan of your equipment—TensileMill always has your back. For added peace of mind, we invite you to request our **business reference list** of clients who have relied on our warranty and support for over five years, offering firsthand insight into TensileMill’s support from people just like you. Additionally, flexible warranty options are available to tailor the protection of your investment to your specific needs.



MAJOR BENEFITS:

Comprehensive Protection: Your equipment is covered from top to bottom with a robust 12-month warranty, and limited-time complimentary extensions, ensuring world-class coverage and peace of mind.

Lifetime Support: Our Life-Time Consultation Advantage guarantees ongoing technical guidance, troubleshooting, and support throughout your equipment’s lifespan—TensileMill always has your back.

Proven Reliability: For further assurance, request our business reference list featuring clients who have benefited from our warranty and support for over 5 years, so you can gain firsthand insights into our exceptional service.

Flexible Warranty Options: Additional warranty packages are available to tailor the protection of your investment to your specific needs.



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#8 Never Stress About the Consumables and Spare Parts

At TensileMill CNC Inc., we ensure that **spare parts and consumables**—including spindle motors, VFD drives, endmills, inserts, fixtures, and more—are readily available to minimize downtime. Our comprehensive stock and short lead times, with overnight options when necessary, guarantee you get the parts you need quickly to prevent down time.

Our machines come standard with all the essential fixtures, inserts, and a recommended endmill tailored to your material application. Plus, our equipment is fully compatible with most tooling on the market, allowing you to maintain your existing supplier relationships. Every component undergoes rigorous testing to ensure precision machining and optimal performance.

We are committed to a seamless service experience, with all spare parts and consumables available indefinitely. This dedication to accessibility and quality ensures that your machine operates efficiently, delivering consistent, exceptional results every time.



MAJOR BENEFITS:



Extended Consumable Coverage: Receive a 1–2 year supply of essential consumables, included in your starter kit with any TensileMill system purchase.


Non-Proprietary Parts: Enjoy ultimate peace of mind with parts that work seamlessly with your existing supplier relationships.

Rapid Spare Parts Availability: Benefit from a comprehensive stock and short lead times—including overnight options—to minimize downtime and keep your operations running smoothly.



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#9. What Are the Safety Features of TensileMill Systems?

Our tensile sample preparation machines offer unmatched safety with front-access emergency stops, heavy-duty protection covers, and fully enclosed systems that prevent operator access during cutting cycles. TensileMill’s solutions meet CE, CSA, UL, and other certifications upon request, ensuring compliance with North America's most rigorous safety inspections—from the automobile and aerospace industries to government R&D facilities—so your team and assets remain fully protected while you achieve optimal performance.

MAJOR BENEFITS:

- **Enhanced Operator Safety:** Fully enclosed systems are designed to eliminate injury risks.
- **Certified Reliability:** Meets CE, CSA, UL, and other stringent safety standards for trusted performance.



NORTH AMERICAN EQUIPMENT



At TensileMill CNC Inc., every machine and consumable are assembled and quality inspected right here in North America, guaranteeing top-tier manufacturing standards.

Moreover, our ability to produce equipment in either Canada or the USA ensures that you avoid any **tariff-related complications, safeguarding your budgets** against politically induced challenges.



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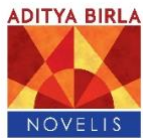
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