

TensileMill CNC MINI – FAQs

What are the power and amperage requirements for TensileMill CNC MINI?

The system requires 220V power supply single phase and 15 amps.

The MINI tensile sample preparation machine has a voltage tolerance of 200-240V. The system should not be stepped down to 110v. It is below the system's voltage cut-off for most of the components and therefore the machine will not run with a 110v input.

What type of receptacle would be recommended for the system?

TensileMill CNC MINI requires a 3 prong, 20A receptacle. You will simply need to plug the receptacle or you can hardwire to a disconnect.

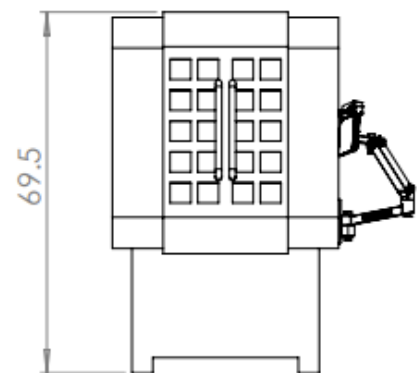
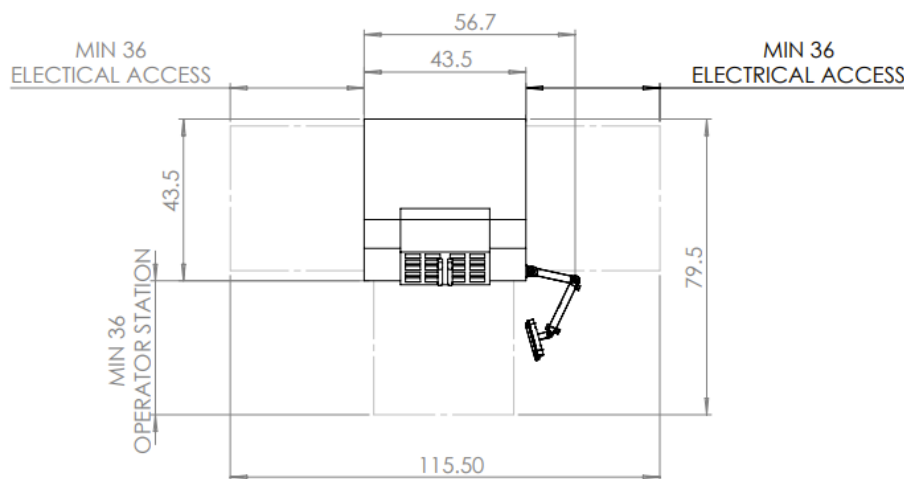
Does the MINI system require a water connection?

The unit comes standard with a re-circulating coolant and way lube systems. No water connection is required. There is an optional pneumatic connection.

This is a floor standing system that can be installed based on your preference. As an option, we suggest to have the machine be slightly tilted towards the right front side for more efficient fluid circulation.

What are the space requirements (footprint) for TensileMill CNC MINI?

The suggested floor dimensions are (LxW) 2100 x 2000mm (82.7 x 78.5 inch)
Suggested electrical access requirements diagram can be seen below



The MINI is equipped with an internal recirculating fluid chamber. It is recommended that it be changed every 6-12 months. Generally speaking, the spindle cooling fluid only needs to be changed once a year and the cutting fluid needs to be topped off when it gets low. Some of the recommended brands are Cim Cool, Hocut, and Blaser.

What is the suggested lubrication fluid to be used with TensileMill CNC MINI?

The MINI flat specimen preparation machines come standard with a Way Lube system but requires you to purchase your own machine lubricating oil. The oil required is ISO 68 equivalent way lube. Some brand suggestions include Mobil, Shell, Irving, etc.

What types of tables and clamping fixtures are included as a turnkey package with the MINI?

Though compact, the MINI sample preparation machine comes standard with a triple sample fixture. This fixture is designed to maximize production efficiency and minimize operator involvement time. It allows to stack 3x the samples (or sample stacks). By clicking a pre-set setting in the software, the operator can get the machine started and move on to other projects while the samples are being prepared only to come back to accurate tensile specimens.

The clamping set is supplied with regular, sub-size and large size clamps based on clients' requirements, as part of the Turnkey Solution Package.



Is it possible to upgrade to the CNC Unlock function after the purchase of the main unit?

Yes. You may issue an order for your CNC upgrade package at any time. The upgrade can be performed remotely.

What are the common consumables for the TensileMill CNC MINI? Are these readily available?

The MINI comes standard with a recommended end-mill for your material application as part of a Turnkey Solution Package. Softer materials require different end mill bits than the 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 volume.

All end-mills are designed and manufactured uniquely for tensile sample preparation needs. As a result, the longevity of each unit is superior to any comparable end mill on the market.

The endmills can be purchased with TensileMill CNC, Inc. or through your preferred local tooling distributor.

What are the common spare parts for MINI? Are these readily available?

Outside of endmills, after a couple years of rigorous use it is possible that the spindle may require replacement. We have seen them run for as many as 14 years and as little as 6 years in a heavier production environment. The components are subject to a short lead time and can be ordered at any time by contacting TensileMill CNC, Inc.

Most spare parts and consumables are available in-house or can be delivered within a few days/weeks. Contact us today or submit your request on-line.