



**PERFECT SOLUTION FOR ROUND TENSILE  
SAMPLE PREPARATION**

**Technical Specifications** TensileTurn

|                           |                         |
|---------------------------|-------------------------|
| Total connection          | 3.5KW                   |
| Main motor power          | 2.2KW                   |
| Coolant pump power        | 40W                     |
| <b>Capacity</b>           |                         |
| Swing over bed            | Ø300mm                  |
| Swing over cross slide    | Ø200mm                  |
| Center width              | 600mm                   |
| Center height             | 140mm                   |
| <b>Spindle</b>            |                         |
| Spindle nose              | 1:4                     |
| Spindle taper             | MT4                     |
| Spindle bore              | Ø26mm                   |
| Spindle speed range       | 30-4000mm               |
| Lathe chuck               | Ø125mm                  |
| <b>Tool changer</b>       |                         |
| Type                      | electric                |
| Numbers of tool position  | 4                       |
| Section of tool (Max)     | 12x12mm                 |
| <b>Travel</b>             |                         |
| X axis                    | 180mm                   |
| Z axis                    | 465mm                   |
| X axis rapid speed        | 6000mm/min              |
| Z axis rapid speed        | 8000mm/min              |
| <b>Accuracy</b>           |                         |
| Position accuracy         | X:±0.05mm,Z:±0.03mm     |
| Repeat position accuracy  | X:±0.02mm,Z:±0.02mm     |
| <b>Tailstock</b>          |                         |
| Tailstock taper           | MT2                     |
| Tailstock sleeve diameter | Ø30mm                   |
| Tailstock sleeve travel   | 80mm                    |
| <b>Dimensions</b>         |                         |
| Overall dimension (LxWxH) | 62.5" x 27.75" x 59.65" |
| Packing size (LxWxH)      | 72" x 37.2" x 72.65"    |
| Net weight/Gross weight   | 800/900KG               |
| Tank capacity             | 25L                     |

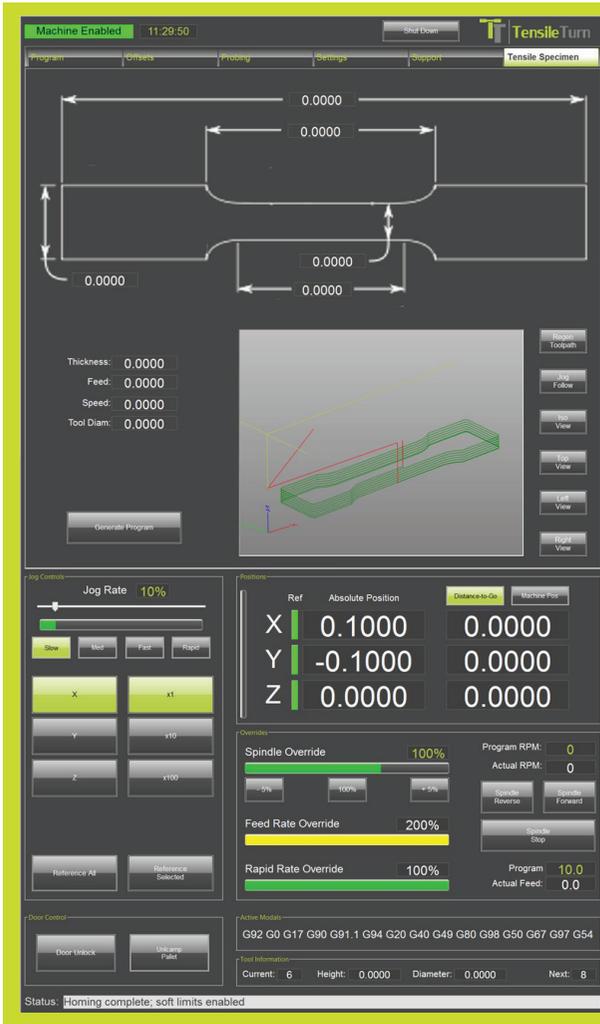
**FEATURES**

- » **2.2KW Heavy Duty Motor**
- » **3-Jaw Universal Manual Chuck**
- » **Tailstock Center**
- » **25L Coolant Tank Capacity**
- » **16" Long and 2" Diameter Capacity**

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TensileTurn - Lathe Sample Preparation Machine



## General

The TensileTurn is a conveniently sized automatic CNC lathe designed to prepare accurate round tensile specimens to achieve the highest accuracy in tensile results. The TensileTurn features our award winning touch screen tensile milling interface to allow any operator, with or without machining experience, to quickly prepare tensile specimens as per your desired size. By simply selecting a common tensile size from our library of common standards (ASTM, ISO, DIN, etc) or by entering your own dimensions on the touch screen numerical keypad, the TensileTurn is ready to machine specimens up to 2" in diameter and up to 16" in length after only a few simple steps.

The TensileTurn also features our complete Carbon software which allows the more experience operators to program the TensileTurn for universal applications for cutting, sanding, knurling, drilling, facing or turning.

TensileTurn CNC can prepare standard round tensile specimens, sub-size specimens, threaded tensile specimens, button-head tensile bars, fatigue specimens and other round testing specimens. The operator is only required to simply load the machine with either round, square or irregular stock.

The TensileTurn allows your laboratory personnel to bypass any wait times with your machining center and prepare their own tensile specimens ready for testing in a matter of minutes. The production of high quality tensile specimens combined with ease of use is what sets the TensileTurn CNC apart. It enables the rapid milling of precisely measured round and button head specimens for superior tensile testing results.

## Controller

Our easy to use touch screen controller is equipped with our complete Carbon software. Our control systems include 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, and every TensileMill CNC system includes updates at no additional cost.