

## PRODUCT SPECIFICATIONS

### Hydraulic Tensile Test Machine

DESCRIPTION: General Requirements.

Provide a hydraulic Tensile Test Machine to perform mechanical testing of deformed carbon and low-alloy steel bars otherwise known as rebars. The test machine's main frame to be free standing or floor mounted to allow rebar set-up and testing from the floor or ground level. Typical test specimens are rebar segments approximately 3-feet in length. Test machine to include basic designed grips and controls for simple operation.

SPECIFICATIONS:

1. AASHTO T244 or ASTM A370 – Mechanical Testing of Steel Products.
2. AASHTO M31 or ASTM A615 – Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement

CAPACITY: 600kN or approximately 134,000 pounds-force (lbf)

REBAR RANGE: #3 to #8 minimum.

GRIPS: Grip rebar sizes from #3 to minimum #8, and with adequate clearance between grips for rebar gauge length of 8 inches and elongation test in 8 in. ~~Extensometer capable but is not required.~~

CONTROL UNIT: Workstation with latest Windows operating system and user-friendly touch screen.

ACCESSORIES: Included to test rebars for various size specified above.

ELECTRICAL REQUIREMENTS: ~~110 Volts or 220 Volts~~ hydraulic system pump and motor.

SAFETY FEATURES: Safety features to be incorporated to protect both operator and testing machine. ~~A frame enclosure is not required.~~

SHIPPING: Includes freight and delivery to ship to address. Includes off-load of machine from truck or trailer to ground level, and transport of machine to interior of facility or "Inside delivery," at ground level ~~approximately 25 ft.~~ and clear 10 ft high roll-up doors. ~~Destination does not have a loading dock.~~

INSTALLATION: ~~Set-up, Check-out and Calibration. Floor mount with anchor bolts. To be contracted separately after delivery.~~

TECHNICAL SUPPORT, PROGRAMMING AND TRAINING – ~~8 hrs. Includes classroom and hands on training on software, equipment operation and maintenance. Create programs for~~

~~mechanical testing of rebar for Yield, Tensile and Elongation.~~ To be contracted separately after delivery and installation.

INSTRUCTION MANUAL: Machine to have instruction manual detailing installation, operation, maintenance, and calibration procedures.

ADDITIONAL FEATURES: Capability to control device by local touch screen device or computer software.

WARRANTY - Minimum 2 years.