

Fastenal (Shanghai) Lab Equipment

200,000 & 20,000 lb. Tensile Tester---Testing externally threaded fasteners for tensile and proof load; Testing internally threaded fasteners for proof loads. **Software: U.T.M Program 2007**

Rockwell Hardness Tester--- Testing Rockwell hardness in the BW and C scales, and surface hardness on the 30T and 30N.

Vickers Hardness Tester--- Hardness testing using the Vickers scale HV10 and HV30.

Software: HMS-V version 4.0

Micro-hardness Tester--- Hardness testing using the Vickers scale w/ 100, 300 & 500 grams force. **Software: HMS-V version 4.0**

Skidmore-Wilhelm---Measurement of clamp load between internal and external thread assembly.

Ring and Plug Gauges---Go and No-Go thread inspection for inch and metric sizes.

Salt Spray Tester – perform the salt spray test by test method ASTM B117.

Zoom scope (CMM) --- Dimensional inspection of linear measurements (X, Y, Z), angles, thread profiles, concentricity and radiuses. **Software: ARCS SI-901 V5.4.2**

Projector --- Dimensional inspection of linear measurements (X, Y, Z), angles, thread profiles, and radiuses. **Software: Inspec 2D Version3.5.2.8**

Portable XRF---Rapid Alloy Identification, PMI (Positive Material Identification). **Software: XL3_7.1E**

Roughness tester--- measuring the surface condition on the parts. **Software: 5.0B**

Coating thickness tester--- measuring the coating thickness by the test method ASTM B499.

Drive Test Plates, Torsional Collets, and Ductility Blocks---Performance testing for tapping, thread cutting, and thread rolling screws.

Length Gages---6 and 12 inch gages for measuring lengths.

Recess Checker---Recess depth and penetration depth on cross-recessed, hex, six lobe, and square drives.

Protrusion Gauge---Measurement of head protrusion on countersunk fasteners.

Drill Drive Tester---Drill-Drive performance test for self-drilling tapping screws.

Additional Equipment:

Torque Wrenches, Slot Width Gages, Digital Calipers, Micrometers, Straightness Gage, Wobble Gage, Ductility blocks, Pin gages, Pitch Micrometers.