

Malaysia Lab Equipment List

- **300,000 lb. Tensile Tester** - Testing of externally threaded fasteners for tensile, proof load, and yield strengths; testing of internally threaded fasteners for proof loads. *Software U.T.M Program, Version 1.0, 2009.*
- **Rockwell Hardness Testers** - Testing Rockwell hardness in the B,C scales and 30N scale.
- **Portable Hardness tester** – Hardness testing per ASTM A956
- **Micro-Hardness Tester** - Hardness testing using the Vickers scale. *Software Version 5.0.*
- **Portable XRF** - Rapid alloy identification, PMI (positive material identification). *Software Version 3.7.*
- **Skidmore Willhelm** – Measurement of Prevailing Torque Test for Nut
- **Corrosion Test Chamber** - Salt spray (fog) testing per ASTM B117
- **Charpy Impact Machine** - Impact testing up to 264 ft-lbs with a temperature range of +410°F to -202°F. *Software VersioImpact V6.1, Version 1.0.*
- **Optical Comparator** - Dimensional inspection of linear measurements, angles, thread profiles, and radii
- **Torque Wrenches** – Testing of the torsional strength of fasteners.
- **Coating Thickness Gage** – Measure the coating thickness of the sample.
- **Dimensional Inspection** - Utilizing ring and plug, variable thread, length, and protrusion gages, calipers, micrometers, and pitch micrometers
 - Ring Gages (Go and No-Go external thread inspection)
 - Plug Gages (Go and No-Go internal thread inspection)
 - Pitch Micrometer
 - Digital Indicator
 - Outside (OD) Micrometer
 - Digital Vernier caliper
 - Height Gage
 - Length Gage
 - Recess Penetration Gage
 - Wobble Gage
 - Protrusion Gage
 - Thread Measuring Wires
- **Metallography Grinding & Polishing Machines** – Sample preparation for macro or microhardness using water and various grits of sandpaper and polishing compounds to provide a smooth surface.
- **Mounting Press Machine** – Sample preparation for microhardness readings, using a molded medium to immobilize the sample for accurate indentation readings.
- **Cut-off Saw** – Sample preparation (sectioning) using an abrasive wheel and coolant.