



Regardless of whether you need to test standard steel or aluminium etc. or complex high strength alloys for the automotive and aerospace industry, Testometric have test systems available that are compliant with all international standards. Models are available up to 600kN capacity, complete with specifically designed grips, fixtures, extensometers and software.

Grips

Various manual wedge, pneumatic and hydraulic grips are available for tensile testing, plus fixtures for compression, flexural shear, hardness testing and cupping tests.

Extensometry

A specialised range of precision extensometers is available covering all aspects of strain measurement including contact, automatic, and video.

Software

Comprehensive metals test software is available with pre-defined calculations to international standards. They include stress, strain and load rate control and relevant calculations such as UTS, proof stress, yield stress, Young's modulus and all strain values including Poisson's ratio etc.

Configurable test methods include:-

ASTM E8M Standard test methods for tension testing of metallic materials (Metric version)
ASTM E21 Standard test methods for elevated temperature tension tests of metallic materials
ASTM A 370 Standard test methods and definitions for mechanical testing of steel products
ASTM F519 Standard test method for mechanical hydrogen embrittlement evaluation of plating/coating processes and service environments
ASTM B557 Tension testing wrought and cast aluminium- and magnesium-alloy products
BS18/1 Tensile testing of metals. Part 1: Non-ferrous metals
BS18/2 Tensile testing of metals. Part 2: Steel (general)
BS240 Brinell hardness test. Part 1: Testing of metals
prEN845-3 Specification for ancillary components for masonry Part 3: Bed joint reinforcement of steel meshwork
BS 1140 Resistance spot welding of uncoated and coated low carbon steel
BS1639 Bend testing of metals
BS2874 Copper and copper alloy rods and sections (other than forging stock)
BS3855 Modified Erichsen cupping test for sheet and strip metal
BS4449 Carbon steel bars for the reinforcement of concrete
BS4482 Cold reduced steel wire for the reinforcement of concrete
BS4483 Steel fabric for the reinforcement of concrete
BS4545 Mechanical testing of steel wire
BSISO 5600 2740 Powder metallurgical materials and products. Part 3: Methods of testing sintered metal materials and products, excluding hardmetals. Section 3.7 Tensile test pieces
BSISO 5600 3325 Powder metallurgical materials and products. Part 3: Methods of testing sintered metal materials and products, excluding hardmetals. Section 3.8 Determination of transverse rupture strength
BSISO 5600 3928 Powder metallurgical materials and products. Part 3: Methods of testing sintered metal materials and products, excluding hardmetals. Section 3.10 Fatigue test pieces
BS EN 10002-1 Tensile testing of metallic materials. Part 1: Method of test at ambient temperature
EN10002-5 Yield/proof/tensile strength etc.
DIN50106 Testing of metallic materials. Compression test
DIN50111 Testing of metallic materials. Bend test
DIN50145 Testing of metallic materials. Tensile test. (German copy)

