

Cooper & Turner Group have fully equipped, fully accredited state of the art laboratories located at our Sheffield and China manufacturing facilities.

[sales@cooperandturner.com](mailto:sales@cooperandturner.com)

[www.cooperandturner.com](http://www.cooperandturner.com)

The wide range of tests include:

- ❖ Tensile and proof load testing
- ❖ Drive and torsional strength testing
- ❖ Pull-out tests on assembled fastening elements
- ❖ Measurements of thread forming torque, stripping torque and breaking torque
- ❖ Determination of the optimum tightening torque
- ❖ Hardness measurement
- ❖ Measurement of coating thickness
- ❖ Environment simulation test (corrosion test)
- ❖ Chemical analysis
- ❖ Measurement of the resulting preload
- ❖ Friction coefficient tests



## TESTING EQUIPMENT – UK & CHINA

**NDT TESTING INCLUDES:**  
 Ultrasonic  
 Magnetic Particles  
 Liquid Penetrant  
 Remote Visual Inspection (RVI)  
 Eddy Current Testing

**ARL OPTICAL EMISSION SPECTROMETER**

**PRESSURE TESTING EQUIPMENT**

**ROCKWELL HARDNESS TESTING MACHINE**

**MICRO HARDNESS TESTING MACHINE**

**CHARPY IMPACT TESTING MACHINE**

**Torque 'V' Tension testing equipment capable of testing bolts up to M80, 5,000kN/6,000kN**

**SALT SPRAY TESTING EQUIPMENT: measures corrosion in accordance with ISO 9227 and ASTM B177**

**THREADED GAUGES**

**Tensile Testing Machine 3,000 kN capacity, capable of testing a full size bolt up to M64 – 10.9 (UK) & M72 -10.9 (China)**

