



BRODER METALS GROUP Metal Processing & Testing

At Broder Metals Group we understand the difficulties in finding materials to comply with increasingly demanding specifications.

That's why we offer both the testing of materials with intent to meet EN 10204 3.2 and full manufacturing or conversion processing to meet EN 10204 3.1 and 3.2.

Metal Processing and Testing Services			
Forgings	We can supply black (as forged) as well as rough or finished machined fully tested and complying with all modern standards or to customer's own specifications.		Our bespoke service can handle the production of forgings from 1" diameter to 3 metres and up to a weight of 3 tonnes.
Top Turning	Tensile Elevated	Maximum diameter 406.4mm	Maximum length 2800mm
Heat Treating	Single items to full batch treatments		
Cutting	Maximum diameter 800mm		
Milling	Maximum size 1200 mm square x 600mm long		
Boring	Maximum bore diameter 600mm	Maximum length 2500mm	
Reeling	More than 1" diameter 33000mm maximum length	Less than 1" diameter 1400mm maximum length	All of our subcontractors are approved to relevant standards, all material is sourced from European and US origin unless previously agreed.
Metallurgical Testing	Fraction volume counting, inclusion counts, cleanliness check , grain size, intergranular examination, decarburisation measurement, case depth.		
Mechanical testing	Room temperature, tensile elevated, temperature tensile stress rupture, impacts (Charpy/izod), % shear and lateral expansion, hardness surveys.		
Corrosion Testing	Pitting and crevice corrosion, intergranular corrosion.		
Ultrasonic Inspection	Full inhouse UT level PCN		
Chemical Analysis	Gas analysis (hydrogen, oxygen and nitrogen)	Optical emission	Wet chemistry
Third Party Witness	Management of independent witnessing by: customer, Lloyds register, TUV, Royal Sun Alliance and others.		