



Sheffield
Technology



DISRUPTIVE LASER CUTTING TECHNOLOGY CHANGE YOUR WAY OF THINKING

Rapid laser cutting of materials up to 60mm thick



Strenx®

Docol®

Ympress®

alform®

Copper

Aluminium

Brass

Cort-Ten®

Weathering®



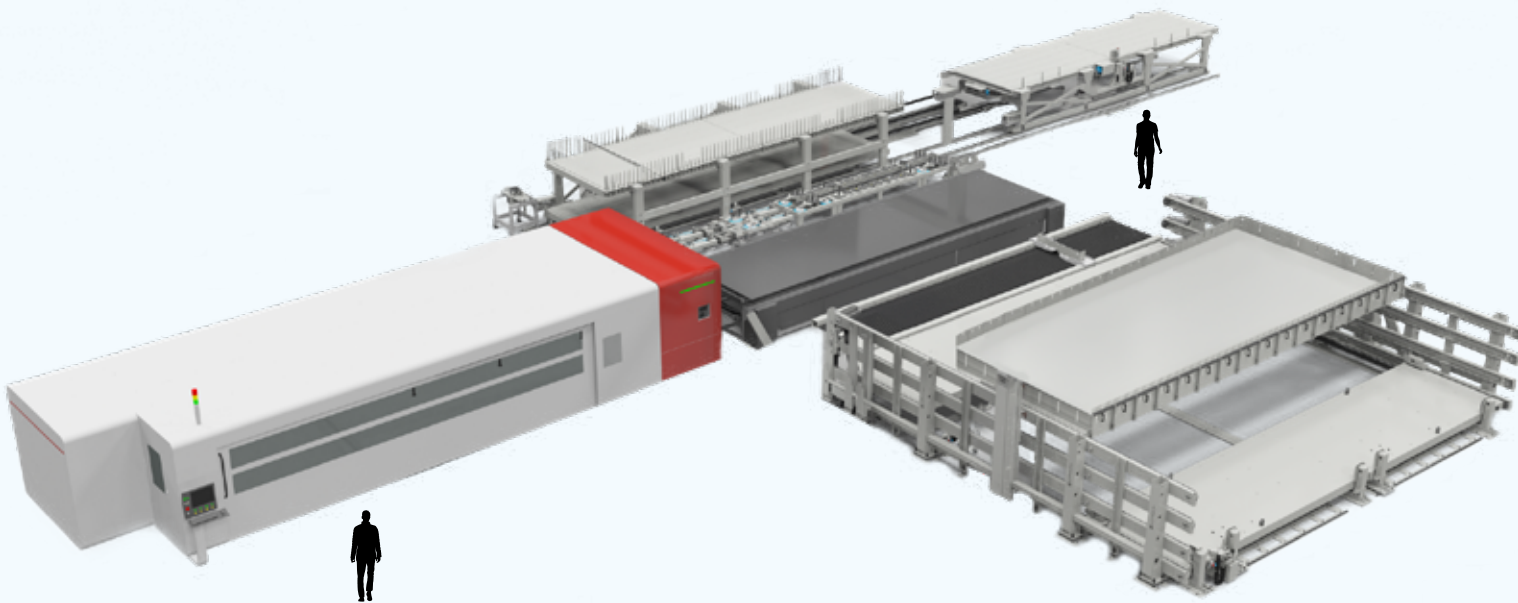
Capabilities

- Laser profiling
- High definition fibre laser
- Bending and folding
- Machining
- Robotic welding
- Batch fabrication
- Project management
- Design for manufacture



Tomorrow's Disruptive Technology, Today

Rapid processing up to 60mm thick armour, carbon and stainless steel sheet 6m x 2m.



Benefits of working with Sheffield Technology



Fast-Track

We understand urgent requirements arise, so we invested in the fastest most precise laser to provide the ultimate Fast-Track service. This can be same-day, next-day and three-day service.



Knowledge

In engineering, like life, experience is key to making informed decisions, our group senior management team draws on over 350 years combined engineering experience.



Quality

Quality is key to winning new and enhancing existing business. With a rich pedigree in Nuclear and Defence we understand quality like no other business.

Fibre laser power disruptive technology

Our state-of-the-art laser processing system provides the very latest technology and is the first to market in the UK. Our 24kW Trumpf TruDisk fibre laser cutting system provides a 6m x 2m envelope, processing materials up to 60mm thick in a wide variety of materials. The machine is best in class, offering exceptional speed, accuracy and efficiency.



Material

Thickness

Brass	12.7mm	→
Copper	16mm	→
Aluminium	40mm	→
Stainless Steel	60mm	→
Armour	60mm	→
Carbon Steels	60mm	→



Up to 60mm thick

- Armour
- Abrasion & Wear Resistant Steel
- Weathering steel
- Carbon Steels
- Structural & High Strength Steels
- Stainless/Austenitic Steel
- Duplex
- Nickel Alloys
- Pressure Vessel & Boiler Steels

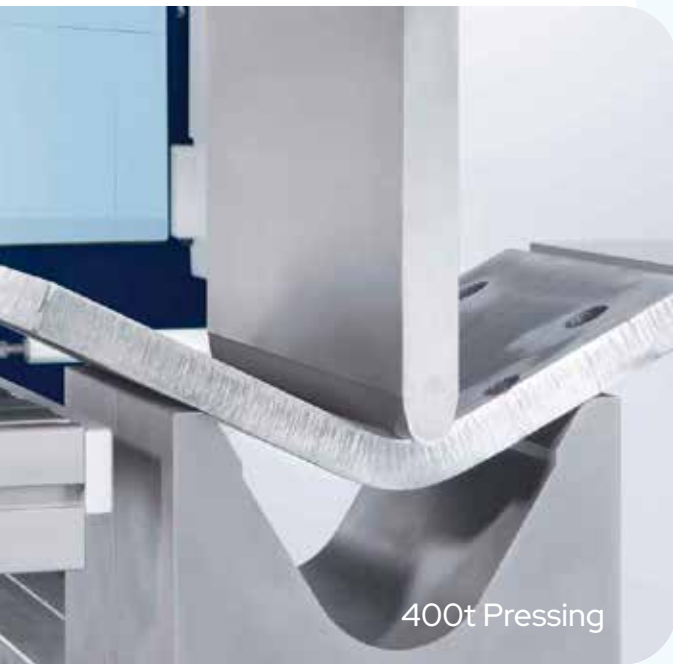
Other Thicknesses

Up to 40mm thick - Aluminium

Up to 16mm thick - Copper

Up to 12.7mm thick - Brass & Bronze





4.3.3 Project Key Risks

A visual overview of the active Risks, both specific and the delivery risk. If there are NO Risks on the project, the Trophy Icon is displayed, rather than the bar graph.



Capability and Added Value Services

A comprehensive range of skills and technology

Rapid Turnaround

With ready access to a wide reaching supply chain, we can offer rapid turnaround, including complex, high volume and specialist materials.

Design for Manufacture

Increasingly, our clients rely on our participation in the detailed design process to ensure cost-effective design and manufacturability.

Project Management

Our team of project managers work alongside our design and engineering department to ensure that projects progress efficiently throughout the project life cycle.



Full coded welding

Engineering and Manufacturing Services

Full turnkey capability

More than just a profiling specialist, with a comprehensive range of skills and technology enabling us to offer a host of fabrication and engineering services.

With modern manufacturing techniques, including Cobot welding cells and advanced CNC press braking enabling us to offer bespoke fabrications or large-scale batch production.

Supported by our sister site in Oldham, where we have a wide range of modern machining centres, project management and design capability.

Services

Press bending
Batch fabrication
Bespoke fabrication
Robotic welding

CNC floor boring
Large scale machining up to 5-axis
Turn-mill
Automated multi-pallet machining





Sectors



Aerospace

The Aerospace and Space sector which includes commercial/military aircraft, drones, satellites, space vehicles, unmanned aerial vehicles (UAVs), is growing exponentially year on year to meet global expectations, with new developments, increased performance demands, plus environmental considerations.



Construction, Crushing & Mining

Traditional methods of processing high strength and wear resistant materials for these sectors has been revolutionised, with our state of the art 24kW , 6m x 2m fibre laser.



Defence

We have over 25 years' experience processing Armour Plate for civilian and military applications. As we continue to develop processing techniques not only in laser cutting, up to 60mm, but also traditional machining methods. Please contact us to discuss your specific application/requirements.



Architecture

Contemporary, architectural metal cladding is an ideal means of adding value in terms of appearance as well as performance to modern buildings. Here at Sheffield Technology, we can process all architectural metals, including Aluminium, Stainless Steel, and Weathering Steels. Supporting architects & designers with the opportunity for creativity and innovation.



Electronics

Manufacturers are continually looking for faster, more reliable and cost-effective methods for precision cutting of metals for electronics and industrial applications. Laser processing can now be the preferred method, with inherent advantages, unlike traditional processes, lasers stay sharp and precise always producing a clean, smooth accurate edge.



Nuclear

Experience is crucial to project delivery in all sectors, but never more so, in the safety critical nuclear industry. Here at Sheffield Technology, we have accumulated years of experience in the delivery of numerous projects both in the United Kingdom and abroad. With experience in shield doors, thru-wall plugs, glove boxes, waste containment, grade-1 fasteners, are just a few areas of capability.



Rail

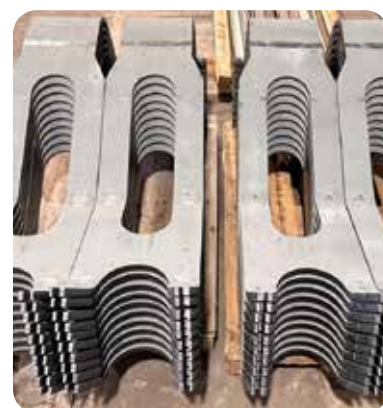
We have very long and highly successful relationship with the UK rail sector, both in manufacture and providing design for manufacture to assist with cost effective production of new and aftermarket solutions.



Sub Sea

Fabrication and Machining for the Oil & Gas and Subsea Sectors is in our DNA here at Sheffield Technology, we have a proven track record as a tier one supplier to many of the global companies in this sector. We can process up to 60 tons and work in a 12m x 3.2 envelope for machining, greater for fabrication dimensions, please request additional information

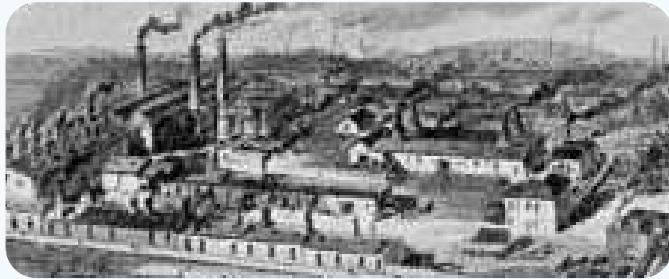
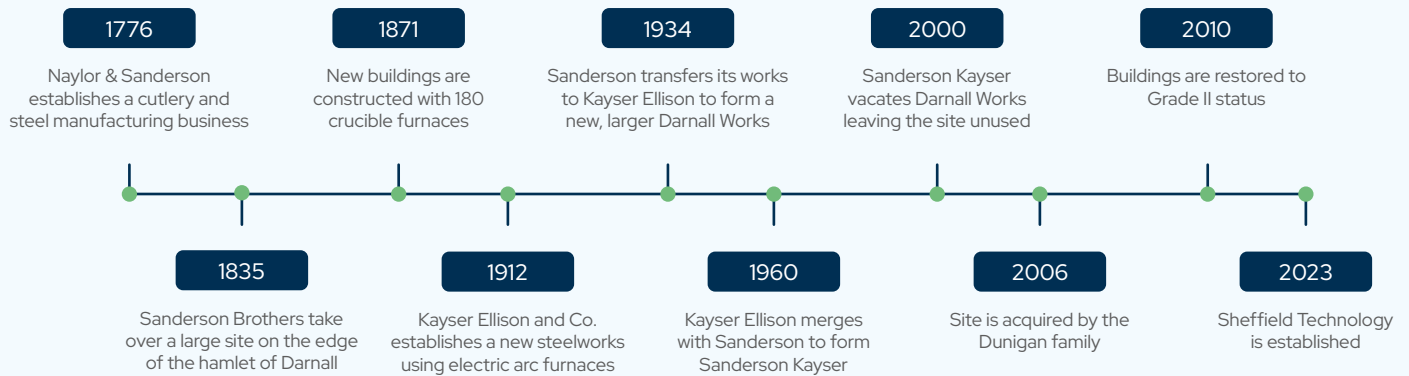
Typical Components





Continuing Sheffield's Manufacturing Legacy

Sheffield Technology, 7.5-acre Darnall Works site



Our core values

— Safety — Quality — Integrity — Honesty — Teamwork



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Technology

Sheffield Technology®

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