

Company Profile

Thomas Brown Engineering was established in 1982 by Tom Brown, who is still our Managing Director today. We are an independent, family-run company operating from premises in Huddersfield, West Yorkshire. We are proud to deliver the very best, British-made, precision engineered components to a diverse range of industries.

Thomas Brown Engineering has built a reputation for excellence over its 40-year history and serves a wide variety of clients in the Food & Drink, Aerospace, Oil & Gas and Pharmaceutical & Medical industries.

Thomas Brown Engineering are committed to providing high quality products and services in an injury-free, safe, secure and responsible manner with minimum impact on the environment. Each and every team member has a responsibility to ensure our service and manufactured parts are of the quality our customers have come to expect. To this end we have a dedicated well-equipped inspection department. All our workforce are trained to ensure that our service offers the very best quality to our customers and adheres to our quality standards AS9100 rev D and ISO9001:2015.

Thomas Brown engineering demonstrate our ability to consistently provide a service that not only meets, but exceeds our stakeholders' expectations and -

- Prevent pollution, injury and ill health, and ensure the well-being of all personnel, sub-contractors and visitors.
- Comply with all applicable laws, legislation, regulations and other requirements.
- Provide appropriate resources, information and training to enable employees to be personally committed to practices that will ensure the above.
- Strive for continuous improvement by establishing appropriate business goals and objectives and implementing the plans to achieve them.

Accreditations

Our Quality Management System is accredited to the Aerospace Standard AS9100D & ISO 9001:2015



Continuous Improvement

Continuous Improvement has been a defining factor within our business for many years. We don't accept that what we do today will be good enough for our customers tomorrow and as such we need to find ways to continuously improve. We have found the best, and by far the most fun way to do this, is to grow our people and by doing so, we build a fun and lean culture.

The 2 Second Lean approach is a way of simplifying our continuous improvement efforts by focusing on waste. This 2-Second Lean way of approaching lean, was a concept developed by Paul Akers of FastCap in the US. The principles of growing people and eliminating waste by seeking small, incremental improvements every day can be used in every work environment.

Lean 3S and "Fix what bugs You?"

These are the two ways in which we identify and seek to eliminate waste and every day annoyances in our work. Each morning, we set aside half an hour to Sort, Sweep and Standardise our work area. This process tends to highlight where waste, in every form, is hidden in our everyday activities. There are limitless amounts of ways in which waste is involved in every process we all undertake.

Another way we approach the subject is "fix what bugs you!" Every member of our team is empowered, and given the time each day, to fix what bugs them!

As part of our commitment to continuous improvement Thomas Brown Engineering have continually invested in the latest technology and employ a wide range of modern well maintained machine tools and equipment along with experienced personnel to supply our customers with a cost effective, total supply chain manufacturing solution.

Machining Capacity

A wide range of modern well maintained CNC lathes and 4 & 5 axis milling machines. Please see full capability on the plant list at the end of this document.

A well-equipped tool room with a selection of manual lathes and milling machines

- Surface Grinding
- Centerless Grinding
- EDM Drilling
- Sawing
- Part Washing & Deburring

Inspection

A fully equipped inspection facility featuring a Mitutoyo Crysta Apex CMM with indexable SP25 scanning probe system.

Calibrated measuring equipment with master standards certified to UKAS

Laser, Dot Peen & Roll Etch Part Marking

Sylvac Optical CMM

Hardness & Surface Roughness Testing

Keyence Multi-Sensor Measurement System

Quality

AS9100D & ISO9001:2015 Quality Management Standards

Complete component & material traceability as standard

Material purchasing to customer quality requirements

Component certification to customer requirements

Managed quality & delivery performance

I.T.

Fully Equipped I.T. infrastructure.

Redthorn MRP manufacturing control software

OneCNC XR8

Autodesk Fusion 360 CAD Software

Edgecam CAM Software

Mitutoyo MCOSMOS & CAT 1000

Sielaff ASK300 & Supply Point computerised tooling inventory cabinets

Visual F.A.I.R.

Transport

Toyota 1.5-ton Counterbalance Forklift

Volkswagen Transporter Van with 900kgs payload capacity

Additional Services

Plating & Coating to customer requirements

Non-Destructive Testing


Heat Treatment Processes

Welding Processes

Please see the plant list on the next page for a full listing of all machine tools and equipment available.

Qty	Resource	Working Envelope (mm)	Product Type	Image
CNC MACHINING/MILLING				
1	Brother M200x3 with BV7-870 Speedio Robotic Arm Auto Loading System	200 x 200	Robotic Loading for Fast Cycle Times High Precision turn/mill volume & surface finished parts [blocks, brackets & mounting plates]	
1	Mikron HPM 450U 5 axis & jig boring 7 Pallet Loading System	450 x 450 x 450	High Precision volume & surface finished parts	
1	Mikron Mill E500U 5 axis & jig boring 7 Pallet Loading System	500 x 450 x 400	High Precision volume & surface finished parts	
1	Mazak Horizontal 4 axis Milling Centre with Probing Twin Pallet	1020 x 730 x 730	High Precision volume machined parts	
2	CNC Hardinge XR1000 4-axis with Probing	1020 x 610 x 570	Simple to Medium complexity	
1	CNC Bridgeport VMC760 4-axis with Probing	800 x 511 x 490	Simple to Medium complexity	
CNC TURNING				
1	Victor V Turn 40 Lathe	550 x 2100	Heavy duty machining, high accuracy & quality surface finish to 2-3 microns depending on length of product	
1	Star SR 32J Sliding Head	32mm	Fast Cycle Times Repeat Turn/Mill parts Qty 50 -5000 [PINS,SCREWS,WASHERS,NUTS,BOLTS]	
1	Star SR 20 RIV Sliding Head	20mm	Fast Cycle Times Repeat Turn/Mill parts Qty 50 -5000 [PINS,SCREWS,WASHERS,NUTS,BOLTS]	
2	Star SW-12RII Sliding Head	13mm	Fast Cycle Times Repeat Turn/Mill parts Qty 50 -5000 [PINS,SCREWS,WASHERS,NUTS,BOLTS]	

1	Nakamura WY-250 Twin Spindle Twin Turret	65mm	Shafts, bolts & precision parts 20 microns [PINS,SCREWS,WASHERS,NUTS,BOLTS] [copper fittings for power gen]	
1	Nakamura NTJ100 Twin Spindle Twin Turret Full B axis Swivel 190 degrees	52mm	Shafts, bolts & precision parts 20 microns [PINS,SCREWS,WASHERS,NUTS,BOLTS] [copper fittings for power gen]	
1	Citizen Miyano ABX-80	80mm	High Precision mill/turned parts up to 80mm diameter	
1	Doosan Puma 3100	300 x 760	Blanks & Shafts [DISK PACK VALVE CONTROLLERS]	
1	Emag VL5Auto Feed Vertical Lathe	200 x 200 x 150	Blanks, castings [eg HI-FI FACIAS]	
TOOL ROOM				
1	Grinding Surface Table	600 x 300	Surface Grinding	
1	Dedtru Centreless Grinding & Profile Grinding		Centreless Grinding & Profile Grinding	
1	Sunnen SSH 1680 Honing Machine		Honing	
1	Anotronic River 300 CNC EDM Drill		Depp Hole Drilling	
	Range of Manual Lathes & Milling Machines		Manual Turning & Milling Prototyping, Jig & Fixture Manufacturing.	
INSPECTION				
1	Mitutoyo CMM including SP25 scanning probes Mitutoyo Geo Cat 1000 3D inspection software	1000 x 800 x 800	CMM Inspection	
1	Mitutoyo RA-114 Roundness Testing Machine		Roundness, Concentricity, Runout, Parallelism Measurement	
1	Mitutoyo SJ-400 Surface Test		Surface Roughness	
1	Tesa Micro-Hite 350 Digital Height Gauge		Height / Length / Diameter measurement	
1	Keyence Multi-Sensor Measurement System		High Precision Optical, Laser & Probe Measurements	
1	Rockwell Hardness Tester		Hardness Testing	
1	Baty R550 Shadow master Optical Profile Projector		Optical Comparator	

1	Vibro & Roll Etching Tools		Part Marking	
1	Boxford Laser Engraver with Rotary Axis		Part Marking	
1	Fibre-optic bore scopes		Optical Comparator	
1	Sylvac Scan 50+ Optical Measuring Machine		Optical Scanning	
1	Ultrasonic Surface Thickness Measuring		Surface Coating Measuring	

More information, including all our latest news and investments, can be found on our website at:

www.thomas-brown-engineering.co.uk

Please don't hesitate to get in touch with the team if you have any questions on:

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