

www.bowersjones.co.uk



Introduction



Background

- Bowers & Jones have been making rolls and tooling for the metal forming industry for over 60 years.
- Founded in 1954 by Mr. Arthur Bowers and Mr. Doug Jones in the Midlands of England, Wolverhampton, UK.
- Making high precision forming rolls for steel tube and section and copper rod manufacturers in “The Black Country”.
- During 1990’s B&J started a collaboration with Schmidt+Clemens in Germany and in 1997 became part of the S+C group.
- In the early 2000’s S+C ceased making tool steels to concentrate on Very High Alloy Materials for the Petro-Chemical market.
- Bowers & Jones moved to new modern premises in 2010 to accommodate the export sales from S+C.
- Merging large rolls business from Germany with small and medium roles business in the UK.
- Circa Euro 2 million investment.
- Since mid 2016, following a management buyout, fully UK independent manufacturing business.



Purpose and Vision

Our Purpose is

TO KEEP MILLS ROLLING

Our Vision

We aim to give our customers

high quality products that will
outperform our competitors in terms of
life in service and to **deliver on time** to the
agreed delivery date.



UK Manufacturing Location



BOWERS JONES
KEEPING MILLS ROLLING

Hilton Cross Business Park
Featherstone
WV10 7QZ
Wolverhampton



BOWERS JONES
KEEPING MILLS ROLLING

Large Capacity Equipment

- Approx. 2,000 m² factory area, 24/5 hrs operation with approx. 23 employees.
- State of the art, high precision turning, milling, grinding and EDM machines.
- Continuous Investment in modern machinery.
- Recent addition 5m long 1m diameter heavy duty CNC Lathe in 2015.
- Capability to machine up to 1.3m diameter and 5m in length, max weight of 8 Tonnes



Hwashion 5m long CNC lathe



Bins & Berry 1.3m OD 8T capacity



Very large Straightening Roll

Small & Medium Capacity Equipment

- Bowers & Jones were one of the first companies in the machining industry to invest in CNC technology in 1980's
- Since then there has been continuous investment in modern equipment to ensure high levels of precision and quality are maintained.
- Latest investment was in 2016, HAAS ST35 Turning Centre c€100k investment.



MAZAK Twin Turret CNC Mill/Turn Machine



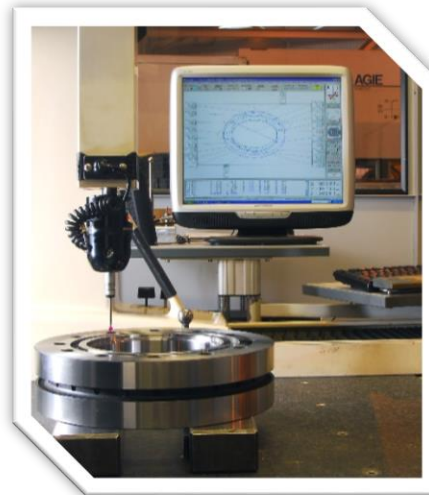
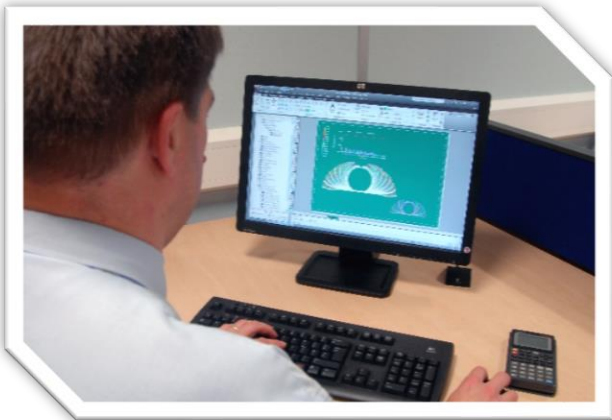
Doosan Medium CNC lathe



HAAS Turning Centre

Engineering and Design Equipment

- To complement our turning capacity B&J also have a large range of CNC and Manual Milling, Grinding and complementary machines.
- In 2018 we added a Robofil 440 EDM wire Eroding machine to the factory.
- We have also invested in state of the art design and programming software, including CMM Measuring and Scanning systems to ensure the highest levels of quality.

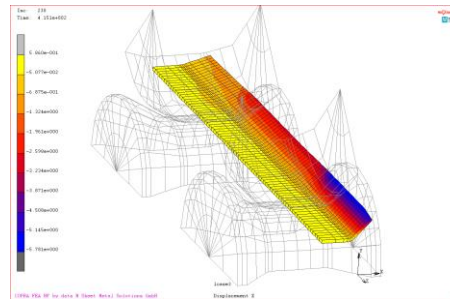
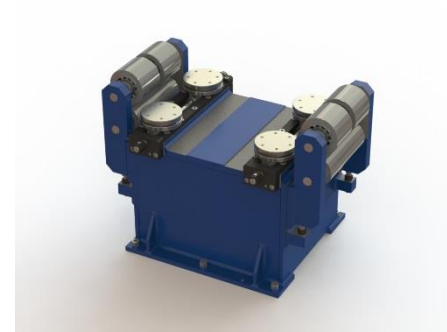


Roll Tooling



Our Products and Services

Mill Equipment



Design Services

Some of our Customers



Global Customer Base



Enhance Life in Service

- The roll design, quality of the materials and methods of manufacture are critical to the life span of the roll.
- For the relatively small cost of a good quality roll, you will save time and money in reduced re-profiling costs, replacement costs and lost production due to change overs by buying from Bowers & Jones.

Our Competitors Tool Life

Bowers & Jones
products last on
average much longer

Bowers & Jones Tool Life

**Chemical
Composition
of Material**

**Tool Steel
Quality**

**Heat
Treatment**

**Surface
Condition**

Tool Design

Rolls for Tube and Section

- Bowers & Jones design and manufacture rolls for:
 - Welded Tube and Pipe Mills
 - Seamless Tube and Pipe Mills
 - Hot and Cold Reduction Mills
 - Cold Formed Sections and Profiles
 - Hollow Structural Section



Rolls for Straightening Tube and Bar

- Bowers & Jones design and manufacture rolls for:
 - Black and Bright Bar
 - Tubes and Pipes
 - Sections and Rails
- One piece and two piece rolls are available:
 - For tube and bar straightening
 - One Piece Rolls
 - through hardened with tempered back journals
 - Two Piece Rolls
 - roll body with separate shaft made from Tough Engineering Steel



Rolls & Wheels for Copper

- Usually utilised on continuous casting rolling line
e.g. Contirod, Southwire, Continuous Propertizi lines.
- Extremely demanding process on the rolls
- Wheels for Continuous Rotary Extrusion Process (CRE)

The process utilises friction to generate heat which plasticises the feed stock being extruded.
Used for small to medium sized profiles of copper and aluminium.



Engineering Projects

Our design expertise and industry experience combined with our manufacturing capability means we can design, build and install mill rolling equipment.



£1.8m (€2.3m) Project completed in 2014
For making Copper Electrical cable.

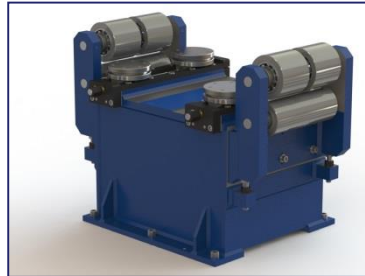
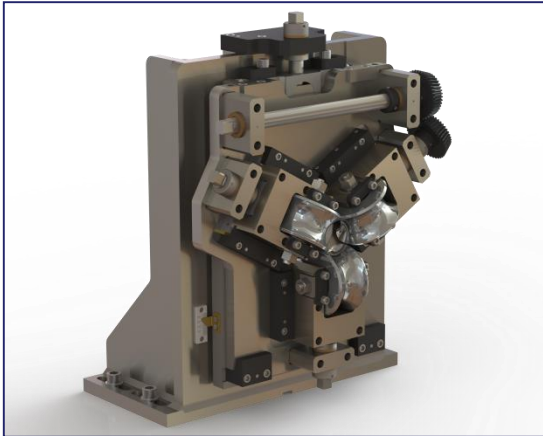


Bespoke Tape Rolling
Machine - 4 made in total.

Mill Equipment

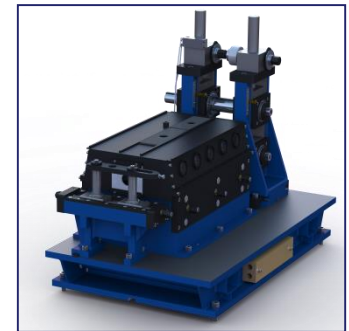
- Roll Strip Flatteners
- Turk's Head Roll Units
- Section Forming Solutions
- De-Twist Units
- Raft Assembly
- Cut-off and die sets
- Pinch Roll Units
- Entry Tables
- Weld Box Sets
- Individual Rolls Stands

Weld Unit



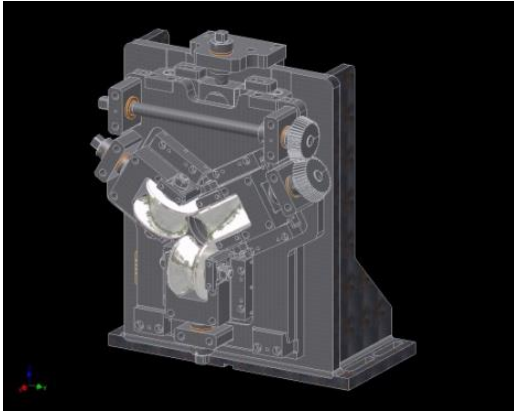
Entry Table

Mill Stands

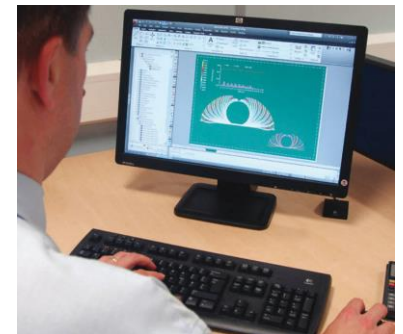
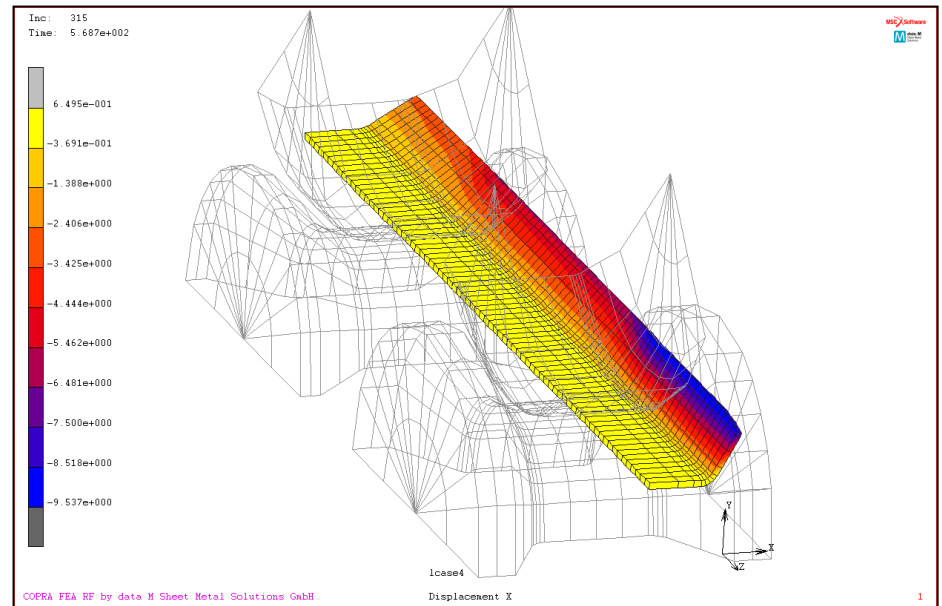


Weld Box

Design Services



- Full 2D & 3D design capabilities
- FEA Simulation software program
- Feasibility Studies and full roll design service.
- Benefits to the customer are reduction in commissioning time and costs.
- Full confidence in the product performance
- Projects cost are accurate and with minimum or zero contingency costs.



For more information go to

www.bowersjones.com

