



Since 1939, Brown and Holmes has maintained an enviable position in the marketplace by delivering superior quality workholding solutions.

We believe in working with our customers to deliver the best possible solution for their individual requirements.

We pride ourselves on offering a complete service - our skills include design, manufacture, assembly, testing and inspection, tooling support, installation and after sales support.



Whatever your requirements, whatever your industry, Brown and Holmes can deliver the right workholding solution for your needs. Whether you are looking for an off-the-shelf product or a bespoke solution, Brown and Holmes can deliver on time and within budget.

We specialise in the supply of standard and semi-standard CNC Cubes and Tombstones, test rigs, jigs and fixtures, special machines and gauges. We also offer precision machining and complex assembly work. Brown and Holmes is the sole agent for Forkardt workholding equipment within the UK and Ireland.

Contact us on:

Tel: 01827 63591 Fax: 01827 63591 Email: [info@brownandholmes.co.uk](mailto:info@brownandholmes.co.uk)  
[www.brownandholmes.co.uk](http://www.brownandholmes.co.uk)

Apollo, Lichfield Road Industrial Estate, Tamworth, Staffs. B79 7TA





## Our versatile workshop consists of the following plant and equipment:

### Milling

Mazak VTC800-30SLR 5 axis Vertical Machining Centre  
Mazak VCN 410A-2 Vertical Machining Centre (x2)  
Mazak VTC300 VMC with 4th axis capability (x2)  
Cincinnati CFV800i H30 VMC  
XYZ SMX4000 NC Vertical  
Devlieg 3H-72 Horizontal  
Devlieg 3H-48 Horizontal  
Devlieg 43-48 Horizontal  
Devlieg 2B-36 Horizontal  
Bridgeport Turret machines

### Turning

Mazak Nexus Quick Turn 250M with driven tooling  
Mazak Quick Turn 20  
Mazak Quick Turn 200 II MY  
Doosan Puma 600  
Colchester Triumph 2000

### Grinding

Jones & Shipman 1300 & 1400 Universal  
Myford Universal  
Favretto FR-S Surface grinder  
Jones & Shipman 1400 & 1400L Surface grinders  
Arter Tub Grinder

### Jig Boring

4G Societe Genevoise

### Jig Grinding

Hauser 5SM

### Wire Erosion

Sodick VZ 500L

### Inspection

Temperature controlled inspection room housing the following equipment:  
Nikon Evolution 25.12.10 CNC Co-ordinate Measuring Machine  
Truth CNC Co-ordinate Measuring Machine  
Faro Arm – Quantum - 8ft (2.4m) span  
Renishaw PH10M motorized probe  
Trimos Electronic Height Gauges  
Grade 'A' Granite Surface plate  
Spin table

### Integrated software (Latest release)

Mastercam CAD/CAM offline programming  
AutoDesk Inventor  
Siemens Solid Edge  
Siemens NX  
Solidworks

### Assembly Department

Fully equipped Fitting Shop  
Internal and External Engineering support  
On-site Service team for installation and after sales service  
Lifting equipment up to 3 tonne capacity

### Miscellaneous equipment

80 litre Vibratory Bowl Finisher TBT-80  
Spray Booth  
Straightening Press (up to 40 tonne load)

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## Capacity List - Milling:

<u>Machine</u>	<u>X axis travel</u>	<u>Y axis travel</u>	<u>Z axis travel</u>
Yamazaki VTC 800-30 SLR 5 Axis VMC with integral rotary table	3000mm	800mm	720mm
Yamazaki VTC 300 C2 VMC (x2)	1740mm	760mm	800mm
Yamazaki VCN 410A-2 VMC (x2)	560mm	410mm	510mm
Yamazaki VTC 300 with 4 <sup>th</sup> axis capability	1740mm	760mm	800mm
Cincinnati CFV800i H30 VMC	800mm	540mm	560mm
XYZ SMX4000 NC Vertical	1000mm	600mm	580mm
Devlieg 3H-72 Horizontal	1828mm	1524mm	406mm
Devlieg 3H-48 Horizontal	1220mm	920mm	406mm
Devlieg 43-48 Horizontal	1220mm	1070mm	508mm
Devlieg 2B-36 Horizontal	920mm	610mm	305mm

## Capacity list – Jig Boring:

<u>Machine</u>	<u>X axis travel</u>	<u>Y axis travel</u>	<u>Z axis travel</u>
4G Societe Genevoise	700mm	600mm	600mm

Larger size work pieces can be accommodated on certain machines, dependent upon the shape and weight of the item in question.

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### Capacity list – Grinding:

<u>Machine</u>	<u>X axis</u>	<u>Y axis</u>	<u>Z axis</u>
Jones & Shipman 1400 Universal	--	356mm diameter	1020mm
Myford Universal	--	127mm diameter	305mm
Favretto FR-S Surface Grinder	2000mm	1000mm	500mm
Jones & Shipman 1400 Surface Grinders	205mm	610mm	350mm
Arter Tub Grinder	--	1000mm diameter	250mm

### Capacity list – Turning:

<u>Machine</u>	<u>Y axis swing (diameter)</u>	<u>Z axis travel</u>
Doosan Puma 600	900mm	3200mm
Nexus Quick Turn 250M with driven tooling	350mm	1000mm
Mazak Quick Turn 20	250mm	400mm
Nexus Quick Turn 200 II MY	300mm	650mm
Colchester Triumph 2000	190mm	1200mm

### Capacity list – Inspection:

<u>Machine</u>	<u>X axis</u>	<u>Y axis</u>	<u>Z axis</u>
Nikon Evolution CMM	2500mm	1200mm	1000mm
Truth CMM	1100mm	650mm	850mm
Trimos Electronic Height Gauge	--	--	1000mm
Grade 'A' Granite Surface plate	900mm	1200mm	--

### Capacity list – Jig Grinding:

<u>Machine</u>	<u>X axis</u>	<u>Y axis</u>	<u>Z axis</u>
Hauser 5SM	700mm	500mm	600mm

Larger size work pieces can be accommodated on certain machines, dependent upon the shape and weight of the item in question.

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