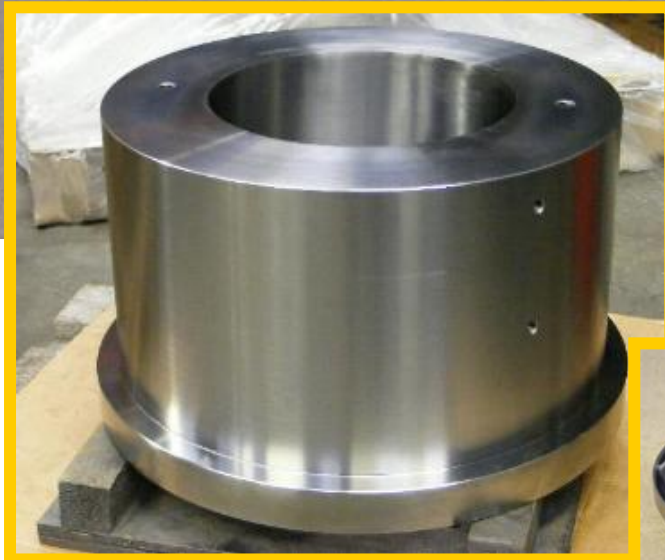




PRECISION  
MANUFACTURING AND  
MACHINE BASED CUSTOMER  
SUPPORT



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## **CONTENTS**

<b>Page 1</b>	<b>Company Profile</b>
<b>Page 2</b>	<b>Summary of Capabilities</b>
<b>Page 3</b>	<b>Plant List</b>
<b>Page 4</b>	<b>Workshop -1 Production CNC Turning &amp; Milling</b>
<b>Page 5</b>	<b>Workshop – 2 Vertical Turning and Boring 4 + 1-axis Milling &amp; Drilling</b>
<b>Page 6</b>	<b>Tooling &amp; Fixtures</b>
<b>Page 7</b>	<b>Specialist Services</b>

## COMPANY PROFILE



Maple Worcester Ltd occupies a modern 7500 sq ft Plant situated within five minutes of M5 junction six.

We put at your disposal a team of experienced Engineers and skilled Machinists equipped with a comprehensive mixture of Machine Tools capable of providing a variety of services from the design and manufacture of prototype equipment, precision Jigs and fixtures, to the reverse-engineering of spare parts for process machinery and low to medium volume component production.

The company has a well-established and prestigious customer base that includes both International organisations and UK based companies, however whatever the size of your company Maple Worcester guarantees you the same high level of service as that afforded to our largest customer. The experience we offer you in precision machining, tooling manufacture and engineering collaboration to overcome production line or component availability problems has been gained by our staff over many years in a wide range of industrial sectors.

The objective of Maple Worcester Ltd is to be considered as a complete solution to any production problems you may have from product and tooling design and development, through sub-contract component manufacture to Plant and maintenance support services.

Within this presentation is shown information that emphasises the useful and varied nature of the capacity we offer you, in addition to which we have long established relationships with well-proven suppliers for any out-sourced heat treatment or finishing processes that may be required on your orders.



## SUMMARY OF CAPABILITIES

- **Convenient Location** Proximity to Motorway Network (M5 – Junction 6)
- **Precision Machining** Low / Medium volume production of components by means of a range of CNC Machining Centres and Turning Centres, plus a Vertical Turning and Boring facility up to 2140mm Diameter.
- **CAD/CAM**
- **Reverse Engineering** Accurate reproduction of critical spare parts for process machinery or for components for which drawings are no longer available
- **Jigs and fixtures** Design and manufacture of production Jigs and fixtures
- **Prototype Design, collaboration and production.** Vast experience of applications at your disposal
- **Assembly** Assembly of fixtures or production sub-assemblies
- **Machine-Based Production Line support** Repair, re-design or modification of process machinery and production equipment

**For Capacity details see Plant list on page 3**



## PLANT LIST

### **General Precision Turning**

Okuma & Howa CNC Barfed Lathe  
390mm Dia x 750mm max length  
65mm Dia. bar Feed

Colchester CNC Barfed Lathe  
200mm Dia. x 400mm max length

Okuma & Howa CNC Chucking Lathe  
200mm Dia. x 300mm max length

Colchester Student 6 Manual Centre Lathe  
550mm Dia. x 1500mm max length

Doosan S280 CNC Lathe  
Swing over bed 480mm  
Max turning Dia. 280mm  
Max Turning Length 330mm

### **Specialist Turning of Large Components**

Doosan S550L Heavy Duty CNC Turning Centre  
Swing over bed 710mm  
Max turning Dia. 550mm  
Max turning Length 1130mm

Colchester Mastiff CNC Turning Centre  
Swing over bed 554mm  
Swing over cross slide 370mm  
Distance between centres 2000mm

Colchester Mastiff 1400 Manual Lathe  
368mm Max. Dia. x 1500mm Max length

### **Vertical Turning & Boring**

Webster & Bennett CNC '6ft Dia' Vertical Turning and  
Boring Machine.  
Max Swing 2140mm  
Elevating beam to 1200mm max height

### **Milling / Machining Centres**

Auerbach FBE Bed-Type Milling Machine fitted  
With 360 degree 4<sup>th</sup> axis Rotary Table and manually  
operated Universal milling head.  
X=1500mm, Y=900mm, Z=900mm

Cincinnati Arrow CNC VMC  
X=1020mm, Y = 510mm, Z = 850mm

Cincinnati Sabre CNC VMC  
X = 1000mm, Y = 500mm, Z = 500mm

Cincinnati 5VC-750 CNC VMC  
X = 762mm, Y = 381mm, Z = 508mm

Beaver Vertical Milling Centres  
X = 700mm, Y = 500mm, Z = 400mm (1 M/C)  
X = 700mm, x Y = 350mm, Y = 400mm (2 M/C)

Uniprize Universal Mill  
1300mm x 360mm

Bridgeport Turret Milling Machine  
1210mm x 225mm

### **Grinding**

Ring Grinder – 375mm Dia.  
Jones & Shipman 1400P surface Grinder  
Jones & Shipman 1300 Universal Grinder

### **Miscellaneous**

Metal Disintegrator – for rapid removal of broken taps,  
drills, studs etc.

Pollard Four Spindle Drill

Norton 8 Tonnes capacity Fly Press

Alexander Band Saw

Britweld MIG Welder

Butters TIG & MMA 125 amp Welder

Fitting Facilities



**Maple  
Worcester**

Precision Manufacturing & Machine Based Customer Support

## WORKSHOP FACILITIES - 1



**Above:** CNC Turning up to 550mm Diameter.

**Top right:** View of main CNC Machine shop.

**Inset:** Mastiff Lathe with 2000mm between Centres.



**Right:** Bar-feed and Chucking lathes for medium volume component production.

**Maple Worcester Ltd** utilises two spacious working areas, one of which is primarily dedicated to production machining.

Images above and right show elements of the main CNC machine shop within which are housed the general CNC Turning and CNC Milling facilities,



**Examples of the wide variety of work produced by Maple Worcester Ltd.**

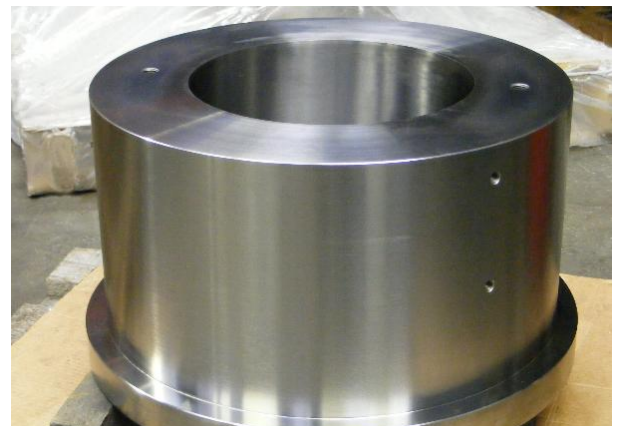
**Left:** A Lamborghini Brake Disc, precision manufactured in Stainless Steel or Titanium as specified.

**Right:** Reproduction antique Brass Stanchions for a leading manufacturer of Theme Park equipment.



**WORKSHOP FACILITIES – 2**

**Vertical Turning and Boring**



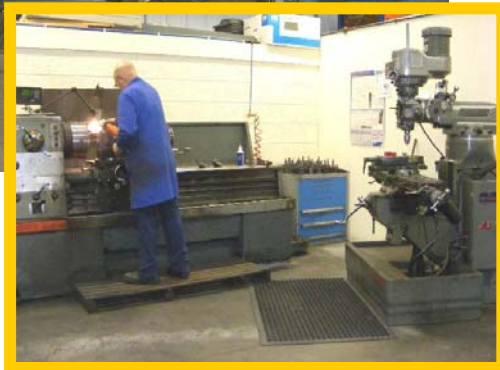
**Above: Webster & Bennet 6ft CNC Vertical Turning & Boring Machine. Top right: A Bearing -Housing mounted on the Webster & Bennett turntable ready for initial machining, shown below this is a finished 500 mm Diameter Hub for a leading manufacturer of Mining Equipment after Turning and Boring operations.**

**4+1 Axis Milling and Drilling**

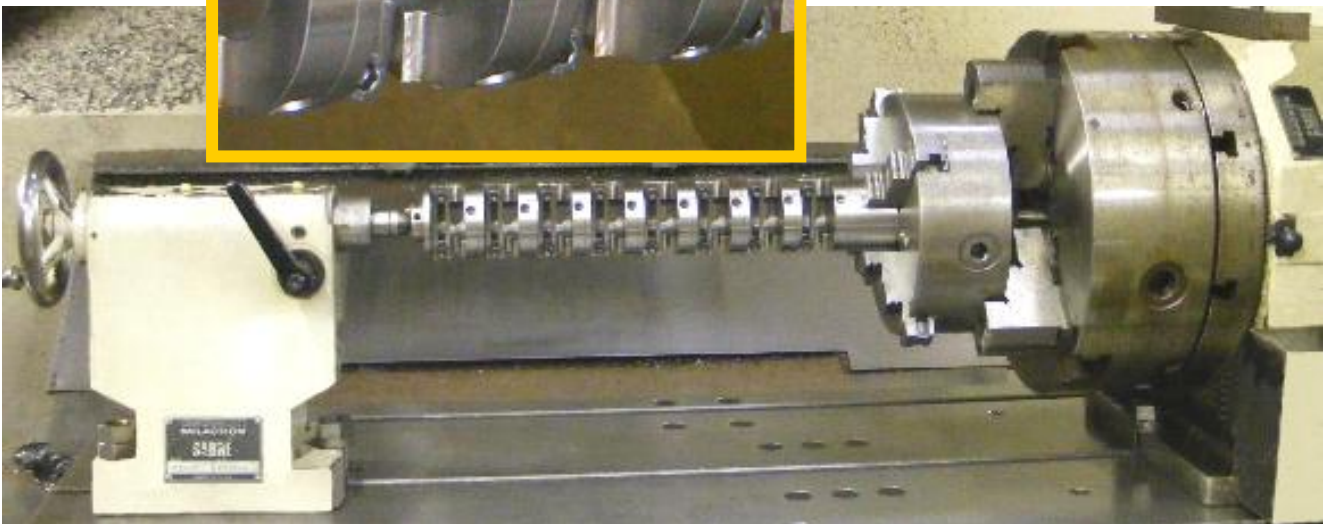


**The Auerbach FBE 1500** fitted with a 360 degree rotary table and manually operated Universal Head (see inset left) provides Maple Worcester Ltd with a useful 4 + 1 Axis milling and drilling capability for components up to 1500mm x 900mm x 900mm in size.

## Tooling & Fixtures



**Maple Worcester Ltd** operates a dedicated Tool Room facility for the development and manufacture of jigs, fixtures and Prototype components. Shown above are the Grinding Section (**Top Left**) and the general machining/assembly area (**inset**). **Top right** is a typical assembly fixture, below and inset is an example of a machining fixture for the precision turning of multiple parts, designed and manufactured by our Engineers.



## SPECIALIST SERVICES

### Machine Based Customer Support

### Shared Engineering Expertise

### Critical Spares Service

### Established and Trusted Partnerships

### Assured Quality

Machining facilities available for Tooling, Production and Inspection fixtures, Prototyping, Sub-Contract precision machining and maintenance purposes.

Collaboration to overcome prototyping and production engineering issues, including material choice and cost effective production procedures.

Maple Worcester Ltd can manufacture and maintain a stock of reverse-engineered spare parts to support your process machinery. We will also provide a stock holding of critical components to support your production effort (**see below**)

Long term arrangements with external suppliers regarding Heat Treatment, Fabrication and Finishing processes.

Full inspection of all components prior to delivery

### Parts Stockholding

**Right:** A section of our dedicated **spares** and components storage area.

We carry many hundreds of critical items in stock for our customers.

Use of this facility allows for availability of these specified spares or components within a 48 hours maximum period or as otherwise agreed. Stored Items can be collected, or delivered by our own transport, or courier.



**Please note that our Spares stock holding facility is available to all new customers on request. For further details of this service please contact us on 01905 754567.**