

MANUFACTURING DIVISION: CAPACITIES



BROADBENT

MANUFACTURING DIVISION



A total solution for the engineering industry

Based in West Yorkshire in the UK, Thomas Broadbent & Sons Ltd's Manufacturing Division offers a complete subcontracting solution for all engineering disciplines, from fabrication and machining to assembly and testing.

Meeting your precise specifications

Our highly skilled, apprentice-trained manufacturing workforce excels in precision manufacturing. Together, these experts fabricate, machine and assemble Broadbent's large industrial centrifuge products to the exacting tolerances and standards our clients need.

Wide-ranging materials capability

The Division brings together impressive experience and expertise in working with a vast range of materials from traditional to the more exotic. We handle everything from mild steels through to 300 series, duplex and super duplex stainless steels, as well as nickel, Monel, Hastelloy and titanium, all of which can be fabricated and machined components.

World-class facilities

Our 85,000ft² (8,000m²) premises comprise three main manufacturing bays with 20 x 20ft (6 x 6m) access and lifting facilities up to 25 tonnes.

Our precision services include:

fabrication machining assembly
dynamic balancing blasting painting testing.



- Max turning diameter: 3500mm
- Max height under toolbox: 3200mm
- Max table weight: 25 tonnes
- Max table speed: 180 RPM
- Traverse axes (Milling)

- X Axis: +/-2000mm
- Y Axis: 2000mm
- Z Axis: 2000mm
- C1 Axis: 360° in 0.001° increments



ASQUITH BUTLER

Large 5 axis CNC machining center with Siemens 840C control, 5000mm X 4000mm table capacity, 2500mm dia rotary table, automatic attachment and 60 tools autochanger.

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- Milling Capacity
- Traverse axes
- X Axis: 6000mm
- Y Axis: 3500mm
- Z Axis: 1500mm
- B Axis: 360° in 0.001° increments
- Max table weight: 25 tonnes
- Inline milling & drilling attachment
- Max speed: 2250RPM
- Universal milling attachment
- (full CNC universal head).
- C Axis: 360° around center of ram
- A Axis: +/-90° rotation around X axis (combined with C to point in any direction from horizontal to vertical)
- Max speed: 2250RPM



DORRIES SCHARMANN VTL 2800 / 280 SIEMENS 840D

- Table Size: 2,800mm (110.23") dia
- Max Load: Table 25,000 kg (24.60 ton)
- Max Swing: 2,800mm (110.23")
- Max Work Height: 3,400mm (133.85")
- Ram Stroke: 2500mm (98.42")
- Rapid Traverse: 1200mm/min (47.24"/min)
- Ram Cross section: 300mm (11.81")
- x 300mm (11.81")
- Min Bore for Ram: 410mm (16.14") dia
- Spindle Speeds: 0.3 – 180 rpm
- Main Drive: 2 x 60 kW
- Live Spindle Speeds: 6 – 2000 rpm
- Live Spindle Power: 30 kW
- Max Turn Tool Weight: 200 kg (440 lbs)
- Max Mill Tool Weight: 40 kg (88 lbs)
- Through Coolant: Yes



DORRIES SCHARMANN VTC SINUMERIK 840 C

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- Table Size: 1800mm (70.80") dia
- Max Load: Table 12,000 Kg (11.81 ton)
- Max Swing: 2000mm (78.74")
- Max Work Height: 2398mm (94.40")
- Ram Stroke: 2398mm (59.00")
- Ram Cross section: 250mm (9.85")
x 250mm (9.85")
- Min Bore for Ram: 300mm (11.82") dia
- Spindle Speeds: 10 – 350 rpm
- Main Drive: 60 kW
- Spindle Speeds: 10 – 350 rpm
- Through Coolant: Yes
- Live Spindle Power: 30 Kw
- Max Mill Tool Weight: 150 Kg (330 lbs)



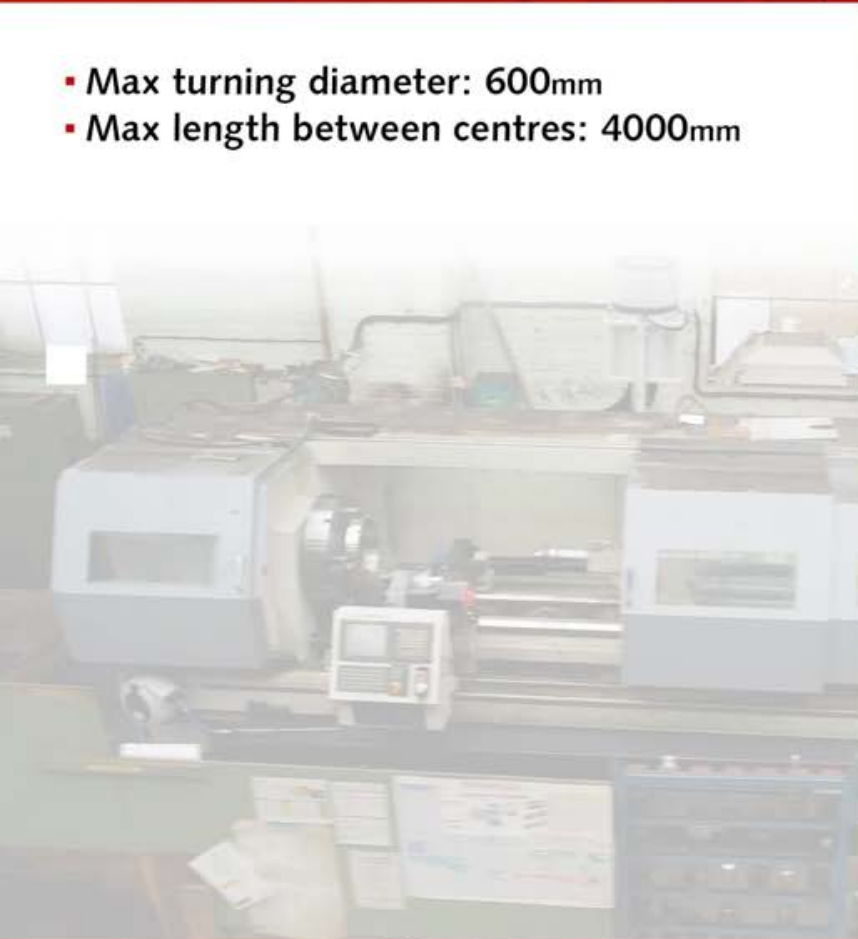
ALPHA HARRISON 2800XS

- Max turning diameter: 1300mm
- Max length between centres: 5000mm



ALPHA HARRISON 1760XS ↗

- Max turning diameter: 600mm
- Max length between centres: 4000mm



HARTFORD SUPER HCMC 1892

- Max turning diameter: 600mm
- Max length between centres: 4000mm
- Traverse axes

- Axis: 2800mm
- Y Axis: 900mm
- Z Axis: 800mm

- Angled head @ 90° to Z Axis with 360° manual movement around main spindle



HWACHEON LATHE

- Max turning diameter: 600mm
- Max length between centres: 4000mm
- Traverse axes

- Axis: 2800mm
- Y Axis: 900mm
- Z Axis: 800mm

- Angled head @ 90° to Z Axis with 360° manual movement around main spindle



- Large 5 axis CNC machining center
- X axis: 2500mm
- Y Axis: 2000mm
- Z Axis: 1100mm
- B Axis: 360° in 0.001° increments
- W Axis: 2000mm
- Max table weight: 15 tonnes
- Table size: 3000mm x 1500mm (with extended table)
- Through coolant - Yes



WELDING & FABRICATION

- ISO 3834 Quality Certification for fusion welding
- Proud Member of the Welding Institute
- 25 welding sets including several new Miller
- XMS 425 MPa
- Synergic Welding Systems.
- Sub-arc welding (with column & boom)

- **Rolls:**
4 roll plate bending machine for cold and hot pre-bending and rounding of cylinders and cones. Capacity up to 2000 mm wide; plate 20 mm thick.

- **Positioners:**
5 x 3000kg positioners
1 x 5000kg positioner
1 x 8500kg positioner

- **Presses:**
500 tonne vertical press.
75 tonne horizontal press.



- 6 Axis Faro Arm – 2.4m reach
- ISO 9001
- ISO 3834
- Full inspection reports available
- Full set of micrometers up to 1m
- Verniers and length bars available for larger sizes





Please forward any enquiries for subcontract manufacturing to the following email or phone:

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Thank you for your attention

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