

Plant List march 2024

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ABOUT US

Established over 40 years ago, T Booth Engineering Ltd is a subcontract engineering company based on a privately owned 2.9 acre industrial site which over the years has grown to be an efficient and dynamic company serving a wide range of market sectors. Our clients trust us to deliver the highest quality service along with competitive rates and short lead times. Our wide range of services enable us to offer a one stop solution for many general engineering requirements including precision CNC machining, sheet metal fabrication, solid surface fabrication and custom fabrication.

Precision CNC Machining

We have invested in a range of CNC Machining and Turning Centers that are capable of producing close tolerance components while maintaining consistently high standards of production. Backed up by a state of the art inspection facility and the latest CAD/CAM software we are able to offer the highest standard of service.

Mild Steel Fabrication

Able to handle fabrications in excess of 7 tons we currently manufacture a wide range of steel products for many different industries and with our ability to machine parts up to 14 meters in length we are able to satisfy most customer needs.

We are experts in both bespoke one-off items and long term repeat production runs.

If you require prototyping, jig welding or job engineering just call us to find out how we can help.

Stainless Steel Fabrication

We have extensive experience in manufacturing bespoke stainless steel items for different clients and industries. Products include ornate architectural features, fine furniture, staircases, fences, railings and many others.

Every project is unique, and we apply consistent skill, care and quality to all of them, and are happy to discuss your individual requirements.

Aluminum Fabrication

Our aluminum fabrication service is fast and flexible, and we have the skills and facilities to deliver excellent service both on one-off projects and long-term repeat jobs.

The range of products we can fabricate is enormous; we will gladly discuss your needs.

Sheet Metal Work

We offer a comprehensive range of sheet metal processing services from small batch to long-term production runs.

We have invested in CNC Press Brakes, guillotines and laser cutting machines to give the consistent high quality that is required.

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9. Miscellaneous Equipment.
10. CAD-CAM Software.

Inspection Equipment



Our large capacity Mitutoyo Crysta Apex 122010 has a measuring volume of X 2005mm x Y 1205mm x Z 1005mm and is equipped with the latest MCOSMOS-1 along with the CAT1000P CAD programming module and TP200 automatic probe changing.



Hexagon RA-7320 Romer Arm 2000mm capacity equipped with PC-DMIS Touch Inspection Software.



Mitutoyo LH-600 Motorised Height Gauge is capable of measuring up to 1000mm in height with a repeatability of less than 1 micron. Purchased in conjunction with a 1200 x 900 x 125 granite surface table and stand.

The equipment above is all housed in our purpose built temperature controlled inspection department with a floor space of 48 square metres and a ceiling height of 4 metres

A range of standard measuring equipment is also available including micrometres up to 700mm, Bowers micrometres up 250mm diameter along with slip gauges, Vernier callipers up to 2000mm, comparators and sine bars.

24" Gagemaker Mic-Trac 3000 with various calliper gauges

Inspection.

CNC Milling



5 Axis Nicolas Correa L-30 With Automatic Indexing Universal Head

Travels:

- X Axis – 8400mm
- Y Axis – 1200mm
- Z Axis – 2000mm
- A Axis – 2.5° Indexing on head
- B Axis – 2.5° Indexing on head



MTE RT 30/16 6 Axis Machining Centre With Automatic Indexing Universal Head

Travels:

- X Axis – 3000mm
- Y Axis – 1200mm
- Z Axis – 1500mm
- A Axis – 2.5° Indexing on head
- B Axis – 1° Indexing on head
- C Axis – Full Rotary on Table
- Maximum Table Load – 10,000kg
- 60 Tool ATC + Renishaw Probing



MTE BF 3100 – 5 Axis Machining Centre With Automatic Indexing Universal Head.

Travels:

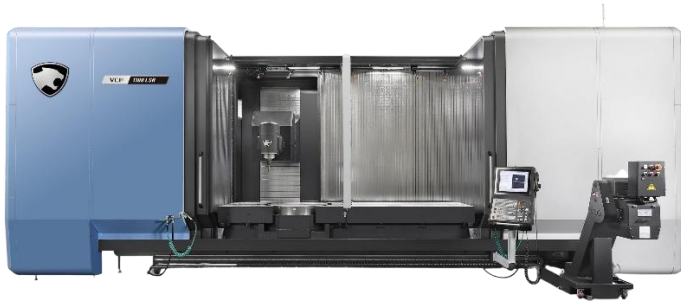
- X Axis - 3000mm
- Y Axis – 1200mm
- Z Axis – 1200mm
- A Axis – 2.5° Indexing on head
- B Axis – 2.5° Indexing on head



Hurco DCX42i – 3 Axis Bridge Type Machining Centre

Travels:

- X Axis – 4200mm
- Y Axis – 2600mm
- Z Axis – 1100mm



Doosan VCF850-LSR – 5 Axis Machining Centre

Travels:

- X Axis - 3000mm
- Y Axis – 850mm
- Z Axis – 800mm
- 5 Axis Simultaneous



DMU-100T – 5 Axis Machining Centre

Travels:

- X Axis – 1150mm
- Y Axis – 710mm
- Z Axis – 710mm
- 5 Axis Simultaneous



Hermle C800U – 5 Axis Machining Centre

Travels:

- X Axis - 800mm
- Y Axis - 600mm
- Z Axis - 500mm
- 5 Axis Simultaneous



Dugard HD2210B Vertical Machining Centre

Travels:

- X Axis – 2210mm
- Y Axis – 1010mm
- Z Axis – 910mm



Doosan Mynx 7500/50 Vertical Machining Centre

Travels:

- X Axis – 1525mm
- Y Axis – 762mm
- Z Axis – 625mm
- 4th Axis Nikken Rotary Table



Doosan DNM 500 Vertical Machining Centre

Travels:

- X Axis – 1020mm
- Y Axis – 540mm
- Z Axis – 510mm
- 4th Axis Nikken Rotary Table



Doosan DNM 750 II Vertical Machining Centre

Travels:

- X Axis – 1630mm
- Y Axis – 762mm
- Z Axis – 650mm



Doosan DNM 6700 Vertical Machining Centre

Travels:

- X Axis – 1300mm
- Y Axis – 670mm
- Z Axis – 625mm
- 4th Axis Nikken Rotary Table



Doosan DNM 400 Vertical Machining Centre

Travels:

- X Axis – 762mm
- Y Axis – 435mm
- Z Axis – 510mm



Doosan DNM 650 II Vertical Machining Centre

Travels:

- X Axis – 1270mm
- Y Axis – 670mm
- Z Axis – 625mm
- 4th Axis Interface.



Haas VF-10 Vertical Machining Centre

Travels:

X Axis – 3000mm

Y Axis – 860mm

Z Axis – 860mm

4th Axis 450mm Diameter Rotary Table



Haas VF-9 50T SE Vertical Machining Centre

Travels:

X Axis – 2000mm

Y Axis – 1000mm

Z AXIS – 1000mm

4th Axis 630mm Diameter Rotary Table



XYZ SLX Pro Track CNC Turret Mills x 2

Travels:

X Axis – 1000mm

Y Axis – 380mm

Z Axis – 480mm



XYZ SMX 3500 CNC Turret Mill

Travels:

X Axis – 788mm

Y Axis – 508mm

Z Axis – 585mm

CNC Turning



Doosan Puma 800

Max Swing – 1030mm
Maximum Turning Diameter – 900mm
Maximum Length – 1600mm
Chuck Diameter – 800mm



XYZ Proturn SLX555 CNC Lathe

Maximum Diameter – 360mm
Maximum Length – 3000mm



Haas SL-30 CNC Lathe

Maximum Diameter – 432mm
Maximum Length – 991mm



XYZ ProTurn SLX 425

Maximum Diameter – 480mm
Maximum Length – 1250mm



XYZ ProTurn SLX 355

Maximum Diameter – 355mm
Maximum Length – 1000mm



XYZ ProTurn VL 425

Maximum Diameter – 480mm
Maximum Length – 2000mm

Boring Capacity



You-Ji VTL-1200ATC-I CNC Vertical Borer.

Table Diameter – 1245mm
Max Swing – 1600mm
Std Cutting Diameter – 1400mm
Z Travel – 900mm
Rail Travel – 800mm
Max Ram to Table – 2006mm
12 Station ATC



ReTOS W100A Horizontal Borer with 5 Axis DRO
Factory refurbished to as new condition 2023

Travels:

X Travel – 1600mm
Y Travel – 1120mm
Z Travel – 1250mm
W Travel – 900mm
360° Rotary Table
Table Surface 1500mm x 1500mm



" Webster & Bennett Vertical Borer equipped with 2 axis digital readout & hydraulic copy turning attachment.



48" Webster & Bennett Vertical Borer equipped with 2 axis digital readout.

Sheet Metal



Bystronic Bystar 3015 – 4kw CNC Laser Cutting Machine

Equipped with automatic sheet changer can take sheets 3000mm x 1500mm

Cutting thickness:

15mm Stainless Steel

20mm Mild Steel

10mm Aluminium

Complemented with Radan laser cutting Cad-Cam programming system.



Bystronic 170 Ton 3 Axis CNC Press Brake

Maximum bend length 3000mm



Promecam CNC Press Brake

Maximum bend length 2000mm



Boschert Profi 28 Ton 3 Axis CNC Press Brake

Maximum bend length 835mm



Edwards Pearson Guillotine

Capacity up to 3000mm x 6mm Thick

Conventional Milling



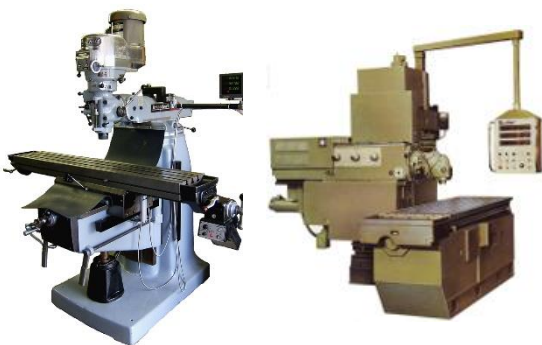
Twin Column Butler Elgamill Bed Type Mill

14 Metre Table with 2 Travelling Columns
Column 1 Vertical Travel – 1800mm
Column 2 Vertical Travel – 1250mm
3 Axis Digital Readout on Both Columns



Butler Elgamill "T" Type Milling Machines x3

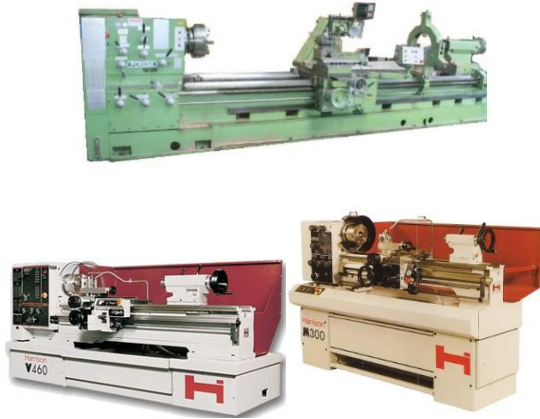
Heavy duty mills with 4 ton weight capacity
All machines fitted with 3 axis digital readout



15 General Purpose Milling Machines

Ranging from Bridgeport to Huron MU55 and MU6's

Conventional Turning

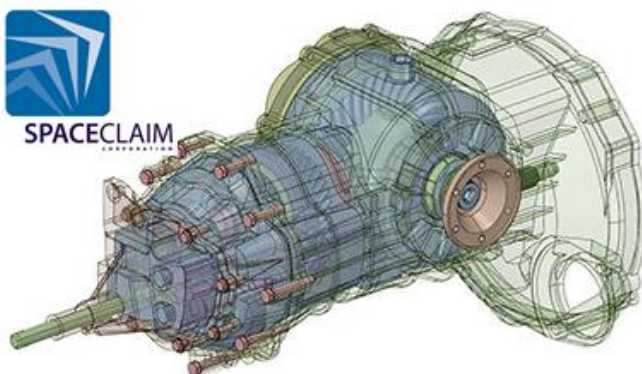


Full range of manual lathes all equipped with 2 axis digital readouts capable of turning up to 1000mm in diameter up to 4000mm long.

Software



FeatureCAM® software automates your workflow from design to NC code. Reduce programming time, and produce consistent results for CNC milling, turning, and wire applications.



Spaceclaim 3D modelling software enables us to solve 3D geometry problems and generate complex designs fast and easily without worrying about underlying technology.



hyperMILL is a high-performance CAM software solution for 2.5D, 3D, 5-axis milling, and mill-turn tasks.



GibbsCAM® is a cutting-edge CAM system for programming CNC machine tools.



CIMCO DNC-Max is the most trusted CNC communication software on the market today, designed to make every aspect of CNC communications more reliable and efficient. **CIMCO NC-Base** is a CNC program management tool that allows you to organize and manage your CNC programs and related production documents. **CIMCO Edit** provides a comprehensive set of essential editing tools necessary for meeting the demands of modern CNC program editing.

Mitutoyo

MiCAT

Mitutoyo Intelligent Computer Aided Technology

MCOSMOS-1

CAT-1000 CAD Interface

CAT1000 significantly facilitates the programming of measurement tasks during the GEOPAK learn mode. All data for measuring parts and tolerance evaluations are taken accurately from the CAD model via pointing device (mouse, trackball, etc.) selection. The same principles apply for programming probe paths (clearance and measurement), while at the same time, using the nominal directly off the CAD model for tolerance comparison.