

OXFORD ENGINEERING**CNC TURNING/MILLING integrated Machining****MATSUURA CUBLEX-63/PC18 – 5 AXIS MILL / TURN MACHINING CENTRE**

This advanced machining centre has 18 pallets along with the latest technologies for high performance processing:-

Max. Turning Diameter – 630mm
 Max. Turning Height – 450mm
 Max. Work piece Weight – 350 Kg
 18 Pallet system
 X axis travel 760mm
 Y axis travel 845mm
 Z axis travel 660mm
 C axis 360 travel degrees

HANKOOK VTC100 VERTICAL TURNING CENTRE

This VTC has a Ram & Turret type C axis and Driven Tools.

Capabilities:-

Max. Turning Diameter – 1250mm
 Max. Turning Height – 800mm
 Max. Work piece Weight – 4000 Kg
 1mtr - Chuck

MAZAK VERTICAL INTEGRIX e 1060 V – Vertical Turning/milling centre.

5 AXIS (integrated B & C axis) twin spindle machining cell
 Maximum swing 1250mm
 Maximum length 1875mm
 X axis travel 1875mm
 Y axis travel 1365mm
 Z axis travel 1045mm
 B axis 150 travel degrees
 C axis 360 travel degrees
 1mtr - Chuck

MAZAK INTEGRIX 400 – Turning/milling centre

5 AXIS (integrated B & C axis) twin spindle machining cell
 Maximum swing 760mm
 Maximum length 1504mm
 X axis travel 1504mm
 Y axis travel 230mm
 Z axis travel 1585mm
 B axis 225 travel degrees
 C axis 360 travel degrees
 12" Chuck

MAZAK INTEGRIX 200 – Turning/milling centre

5 AXIS (integrated B & C axis) twin spindle machining cell
 Maximum swing 660mm
 Maximum machining length 1016mm
 X axis travel 580mm
 Y axis travel 160mm
 Z axis travel 1045mm
 B axis 225 travel degrees
 C axis 360 travel degrees
 10" Chuck

DAEWOO PUMA 400M – Turning/milling centre

4 AXIS (integrated C axis) turning/milling cell
 Max swing over bed 700mm
 Max swing over saddle 480mm
 Max machining diameter 460mm
 Max work length 1050mm
 X axis travel 362mm
 Z axis travel 1105mm
 C Axis (rotating)
 All axes simultaneously controlled
 15" Chuck

DAEWOO PUMA 400LM – Turning/milling centre

4 AXIS (integrated C axis) turning/milling cell
 Max swing over bed 770mm
 Max swing over saddle 590mm
 Max machining diameter 560mm
 Max work length 2028mm
 X axis travel 362mm
 Z axis travel 2155mm
 C Axis (rotating)
 All axes simultaneously controlled
 12" Chuck

HITACHI SEIKI HICELL CA23 – Turning/milling centre

4 AXIS Integrated "C" axis Turning cell
 Maximum swing 400 mm (15.75) inches
 X axis 215 mm
 Y axis 100 mm
 Z axis 530 mm
 C axis (rotating)
 All axis simultaneously controlled
 Hydra feed short bar loader
 10" Chuck

HITACHI SEIKI HICELL CA23 II – Turning/milling centre (x 2)

4 AXIS Integrated "C" axis Turning cell
 Maximum swing 400 mm (15.75) inches
 X axis 265 mm
 Y axis 120 mm
 Z axis 530 mm
 C axis (rotating)
 All axis simultaneously controlled
 10" Chuck

CNC MILLING**HELIOS 2i Model 425 VERTICAL MILLING CENTRE**

5 AXIS
 X axis travel 4200mm
 Y axis travel 3200mm
 Z axis travel 1000mm
 C axis 2.5 degrees increments
 4.0 x 2.0 mtr bed
 Maximum part envelope 3.5 mtr x 2.5mtr x 0.7mtr

BOKO F63-100

4 + 1 AXIS CNC universal milling and boring machine.
 X axis travel 2400 mm
 Y axis travel 1200 mm
 Z axis travel 1360 mm
 W axis travel 300 mm
 fully controlled 360 degree table rotation

BOKO F63-100

4 + 1 AXIS CNC universal milling and boring machine.
 X axis travel 2000 mm
 Y axis travel 1200 mm
 Z axis travel 900 mm
 W axis travel 300 mm
 Fully controlled 360 degree table rotation
 Touch probe for rapid set up and co-ordinate measuring capabilities.

MATSUURA HP300

Twin pallet **4 AXIS** horizontal high speed (20,000 RPM) machining centre.
 X axis travel 500mm
 Y axis travel 500mm
 Z axis travel 500mm to spindle nose
 Automatic tool probing, 80 tool cassette automatic changer

DOOSAN DNM 750 II

Vertical machining centre (12,000 RPM)
 X axis travel 2160mm
 Y axis travel 762mm
 Z axis travel 650mm to spindle nose

MAZAK Vertical nexus 510

Vertical machining centre
 30 tool capacity automatic changer
 Work area 1050 x 510 mm (41 x 20 inches).

HAAS VF4

Vertical machining centre
 20 tool capacity automatic changer
 fully integrated fourth axis control, Haas control system
 High speed spindle
 Work area 1016 x 508 mm (40 x 20 inches).

TURNING CNC**BINNS & BERRY DATA 90 CNC Turning Centre**

1200 mm Dia swing
 3000 mm Dia between centre's
 1030 mm Dia over bed

BINNS & BERRY DATA 90 CNC Turning Centre

1600 mm Dia swing
 2500 mm Dia between centre's
 1100 mm Dia over bed

**COLCHESTER
ALPHA 550**

CNC controlled X & Y axis
 554 mm swing
 830 mm in the gap
 2000 mm between centre's
 Variable surface speed

**COLCHESTER
ALPHA 400**

CNC controlled X & Y axis
245 mm swing
585 mm in the gap
Variable surface speed

All the above CNC Lathes & CNC Mills are DNC linked to a CAD CAM facility

LARGE VERTICAL TURNING

WEBSTER /BENNETT

EM72 Vertical borer, 2540 mm maximum turning diameter

WEBSTER/BENNETT**

EB60 vertical borer

2100mm maximum turning diameter

Current weight limitation of crane is 500Kg

ASSEMBLY, WELDING & TESTING EQUIPMENT

Fully customized and dedicated individual facilities in-line with customers needs,
25,000 sq ft Capabilities include:-

CLEAN ASSEMBLY ROOM

1000sq ft of positively pressurized assembly facility for UHV Diagnostics assembly and vacuum testing

WELDING

5 Tig, 2 x Mig, 1 x Orbital and 1 x Gas Welding
Manipulators x 5
Plasma cutting

STRESS RELIEVING

1 x Vibratory

SOLDERING

Hard & Soft Soldering

TESTING

Leak Detection - Mass Spectrometers x 5
Pressure Testing (Pneumatic and Hydrostatic)
Earth Bond Testing x 1
DVM x 4
Granite Surface table 1.5mtr x 1.0mtr

INSERTING

Bollhoff Helicoil plus programable electronic insertion tool and ancillaries

CLEANING

3 x Hot Wash Detergent line with ultrasonic cleaning
Large (2 Stage) - 1.5mtr x 1.5mtr x .5mtr
Medium (4 Stage) – 0.8mtr x 0.8mtr x 0.8mtr
Small (4 Stage) – 0.5mtr x 0.3mtr x 0.3mtr

DRYING / BAKING

3 x OVENS

MARKING EQUIPMENT**SIC MARKING SYSTEMS**

P123 Hand Held Unit with e10 Controller and Bar Code Reader
 P122 Hand Held Unit with e6 Controller

HALO LTD

Cube100 Class 1 laser marker with programable Z axis and Bar Code Reader

COMPUTER SYSTEMS**EDGECAM**

Cad Cam System, reading DXF/IGES/DWG/SAT/PAR files, Multi tasking, post process control Of DNC linked machines. Surface Design & 3D m/cing capability, Multi plane m/cing via Solid Modeling and tool path verification packages.

SIEMENS**Solid Edge Software - Solid modeling CAD system**

Interfaces with Edge Cam and facilitates transfer of 3D designs to CNC files

WINDOWS NETWORKING SYSTEM

Pentium processor file server running, Javelin (production control system), Exchequer accounts package, Act contact CRM database

INSPECTION EQUIPMENT / NDT**CREAFORM**

Handy Probe C780
 7.8m³ measuring volume
 55um single point accuracy
 85um total volume accuracy

JOHANSSON

Topaz 10-6 CNC Co-ordinate measuring machine
 Measuring range (mm)
 X 1000
 Y 1000
 Z 600
 Accuracy 10 microns
 Resolution 0.1 microns
 Repeatability 3.5 microns
 Speed (m/min) 30• Max. Component weight (kg) 1000

MITUTOYO

Surf test, surface roughness measuring machine.

MIC TRAC

Gauge Maker New

A fully complimentary range of inspection, shadow graphing & workshop equipment is available, traceable to national standards

DYE PENETRANT TESTING

PCN LEVEL 2 (x4 Inspector)

DEMAGNETISING

500mm x 500mm Capacity

CONVENTIONAL MACHINING**MILLING****PROTRAK 2000**

2 Off CNC controlled X & Y axis
Work area 1220 x 254 mm

BRIDGEPORT EZYTRAK

CNC controlled X & Y axis
Work area 1220 x 254 mm

BRIDGEPORT

3 Off Series (1) universal milling machines. Work area 760 x 670 mm (30 x 26 inches). Slotting and right angled head attachments

TURNING**COLCHESTER****MASTIFF**

370 mm swing over bed
1300 mm between centres's
780 mm in the gap

COLCHESTER MASTER**4 OFF**

170 mm swing over bed
250 mm in the gap

COLCHESTER TRIUMPH**4 OFF**

190 mm diameter over bed
300 mm in the gap

COLCHESTER**2500 (vari speed)**

190 mm diameter over bed
300 mm in the gap
constantly variable surfacing speeds

FORK LIFTS / ELEC PALLET TRUCKS**HELI – Diesel – 3500kg****HYSTER – Electric – 1600kg****BT STAXIO (x2) – 800kg**