

C. S. Simmons Engineering Ltd Mill Road Trading Estate Radstock, Bath BA3 5TX

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CNC PRECISION MACHINING OF HIGH-PERFORMANCE / SUPER ALLOYS TO 2.5M LENGTH, 0.8M DIAMETER & 1.2M CUBED

# CAPACITY LIST

### **MAXIMUM CAPACITIES**

## Vertical Milling

X = 1800.0mm Y = 0920.0mm Z = 0700.0mm

**Horizontal Milling** X = 1000.0mm Y = 1000.0mm Z = 1000.0mm

**GENERAL DESCRIPTION OF SPECIALIST SERVICES** 

C.S. Simmons Engineering provide a CNC machining service

to many industries, including oil, valve and defence. All

types of machining are undertaken, including heavy stainless steel machining and machining of exotic materials

such as Inconel, Hastelloy, Monel, 17-4 PH, S316 Super

Duplex, Zeron 100 and Waspalloy.\* Manufacture and

inspection meet the requirements of the updated BS EN

with set procedures and with Tricorn Job Processing

software that allows unparalleled traceability during the

machining process and long after delivery.

ISO 9001 : 2015 certification (Certificate can be provided

on request). Quality and performance are monitored closely

C. S. Simmons Engineering continually invests in the latest

CNC precision machining technology available, to always

remain very competitive, and to be able to meet very

demanding delivery times without compromising quality.

CS Simmons Engineering provide Large Component,

Complex Component, Prototype Component, and Reverse

Engineering CNC Precision Machining Services in both Regular and Super Alloys. Specific precision machining

#### **CNC Turning**

Diameter = 800.0mm Swing = 1030.0mm Between Centres = 2500.0mm Hydraulic steady units, programmable

### **CNC CMM INSPECTION**

#### Aberlink Zenith Too 1000 CNC CMM

Various inspection reports are available with the Zenith Too 1000 CNC CMM.

Measurement Volume: X-axis 1000mm Y-axis 1000mm Z-axis 600mm Accuracy: B89: 0.008/300mm VDI(U3): 0.0038 + L/250

# **MACHINING CENTRE (CNC)**

**CNC Doosan Heavy Duty HM 630** The HM 630 combines a high torque spindle drive and powerful axis drives for a large chip removal rate. The massive meehanite cast structure and wrap around box guideways provide the rigidity required for both heavy cutting and superb surface finishes. Fanuc 18i-MB controls.



Max Diameter — 1000mm Height Z-axis — 1000mm Max Weight — 1200kg

## SAWING (VERTICAL BAND) THROAT - 350mm

### **TURNING CENTRE (CNC)**

CNC Puma 12L High response turning centre with FAPT conversational programming with Fanuc 15TA system. Fully programmable tailstock.

Length Z-axis - 1100mm Chuck Dia. - 400mm Max Chucking Diameter — 580mm

### **TURNING CENTRE (CNC)**

CNC Puma 10HC Lathe with Fanuc OT-C controls. Fully programmable tailstock.

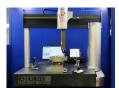
Length Z-axis - 450mm Chuck Diameter - 250mm Max Chucking Diameter - 280mm





**CMM Inspection** X = 1000.0mm Y = 1000.0mm

Z = 0650.0mm



# services include CNC Turning, CNC Machining, CADCAM nga ISO 9001 Registered Quality

Management Certificate No. 9835

## **MACHINING CENTRE (CNC)** CNC Hartford HCMC-2082AG

MAIN SERVICES OFFERED

Design and CNC CMM Inspection.

C.S. Simmons Engineering is a BS EN

Certificate No. 9835, and are audited

**QUALITY APPROVALS** 

ISO 9001 : 2015 Quality

by NQA.

Management Certified Firm,

Vertical Machining Centre Single Table Open Fronted Vertical Machining Centre, with hardened & ground box guideways for heavy cutting capabilities. FANUC 0iMD CNC Control System.

X-axis 1800mm Y-axis 920mm Z-axis 700mm Table 2000mm x 920mm Table Load 3000kg



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#### TURNING CENTRE (CNC) Hyundai-Wia L500LMA CNC

**Turning Centre** equipped with Fanuc 18i control system and Steady Rest Type RX-5-Z 75-430 (*Workpiece:* 430mm max. dia. – 30mm min. dia.) Maximum Turning Diameter — 690mm Live Tools ER40 (03-025mm Tool Fitting / 140 N Maximum Torque)

Length Z-axis 2500mm (maximum workpiece length, ideal for machining long shafts accurately) Chuck diameter — 24" Maximum swing over bed — 1030mm

# **TURNING CENTRE (CNC)**

**Daewoo Puma 400LA CNC Turning Centre** equipped with Fanuc 18i control system. Fully programmable tailstock. Fully retrofitted SMV Autoblock steady. (*Workpiece: 230mm max. dia.* — *30mm min. dia.*) Maximum Turning Diameter — 580mm

Length Z-axis 2200mm (maximum workpiece length, ideal for machining long shafts accurately) Chuck diameter — 18" Maximum swing over bed — 800mm

#### MACHINING CENTRE (CNC) CNC Hartford Kappa VMC130

4 Axis, Fully programmable 4th 'B'axis. 'Hartrol' programming system with Fanuc 18i controls. Thermal heat dissipation. High pressure through coolant. Many macro functions to reduce programming set up times.

Length X-axis — 1500mm Width Y-axis — 700mm Height Z-axis — 800mm

#### SPLINING

# **CAPACITY LIST**





**NEW FOR 2019** 

#### **MANUAL MACHINES**

**Ormerod Slotter** — with 250mm stroke, cuts keyways along the length of a bore.

**Tarnow Centre Lathe** — New arrival bought specifically for machining 1 off items of large size. Solid Cast Bed construction, digital readout and positioning capabilities.

Length Z-axis — 2000mm Chuck diameter — 500mm Maximum chuck diameter — 750mm

**Gang Drills** — 2 sets for finishing operations, i.e., drilling, tapping, reaming & deburring.













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