



**PRECISION ENGINEERS DESIGN - DEVELOPMENT -
MANUFACTURE**

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Horizontal Twin Pallet Machining

4 OFF MORI-SEIKI NH5000 40 DCG

44 Pallet Fastems Flexible Pallet Magazine

BT40 Tooling 14,000 rpm 240 Tool Positions

Working Surface: Twin Pallets: 500mm 500mm

Traverse: (x) 730mm (y) 730mm (z) 850mm

3 OFF MORI-SEIKI SH400

BT40 Tooling 12,000 rpm 60 Tool Positions

Working Surface: Twin Pallets: 400mm x 400mm

Load per Pallet: 300 kg

Traverse: (x) 560mm (y) 510mm (z) 510mm

Vertical Machining

1 OFF MORI-SEIKI Dura 5100

with MAPPS III programming & Fanuc Oi-C controls

30 tool capacity

10,000 min-1

Working Surface: 1359mm x 600mm

Loading Capacity: 1000kg

Traverse: (x) 1050mm (y) 530mm (z) 510mm

CNC Turning

1 OFF MORI SEIKI MILL TURN NL1500

MAPPS II controls

6" main & sub spindle chucks

52mm Ø bar with 2m magazine barfeed

Travel X: 260mm Y: 1000mm Z: 290mm

Spindle Speed 6000 rpm

12 Rotary Tools & 12 Turning Tools available

1 OFF MORI SEIKI MILL TURN SL-150MC

with Fanuc 18iAll Conversational Control

680mm Swing over bed 445mm Swing over cross slide 560mm Between centres 430mm Max. turning diameter 170 mm Standard turning diameter 519mm Max. turning length 45mm Bar work capacity 001° C Axis indexing angle

Spindle Speed 5000 rpm

12 Rotary Tools available

Centre Turning

1 OFF OKUMA LS

540mm Swing

1250mm Between Centres

Head Stock 50mm Ø Max

1 OFF HARDINGE Model HLV-HS

254mm Swing

457mm Between Centres

Jig Boring

1 OFF SOCIÉTÉ GENEVOISE SIP 3KT with Heidenhain Control ND960 with Digital Readout and Touch Probe Function

Working Surface: 648mm x 470mm Loading Capacity: 363kg

Traverse (x) 450mm (y) 350mm (z) 620mm

Milling

1 OFF THIEL DUPLEX 158S – Universal Mill

Working Surface: 750mm x 280mm

Ovens (bonding)

1 OFF MIDO/6/CLAD/F/DT 20° - 250°C 660/700 x 470 x 510 Deep

Cutter Grinding

1 OFF CLARKSON MKII

General Plant

1 OFF ENGRAVER (Taylor Hobson)

1 OFF VACUUM BEAD BLASTER

1 OFF 84 LTR TORNADO TUB MACHINE (For Finishing)

BENCH DRILLS, PEDESTAL DRILLS, TAPPERS, BENCH GRINDERS,
etc

Gaskets & Seals

CNC Silicone gasket laying robot

Inspection

1 OFF CMM MITUTOYO B241

Working Surface: 800mm x 1500mm

Traverse: (x) 700mm (y) 1000mm (z) 450mm

CMM COMPUTER, CONTROLLER, PROBES AND SOFTWARE

DELL OPTIPLEX G X A

MAG COUNTER

EASIPAK V6.01 and COSMOS 1.2R4

PROBE HEAD MH8 AND PROBE TP2

1 OFF CMM EURO C574 APEX CNC

Working Surface: 500mm x 700mm x 400mm

Traverse: (x) 500mm .(y) 700mm .(z) 400mm

1 OFF ELEY METROLOGY VERTEX 500mm x 800mm MKIII DIGITAL
HEIGHT GAUGE

1 OFF MITUTOYO PJ303 OPTICAL COMPARATOR

CAD/CAM

Pro-Engineer
AUTO CAD

Production Management & Scheduling

In-house proprietry system

Transport & Loading

500kg delivery van

1500kg Fork Truck

500kg mobile gantry