

# PLANT LIST

## 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

### **2 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

### **MORI-SEIKI Dura 5100 with Nikken rotary axis**

with **NEW** MAPPS III simple conversational programming and 3D simulation  
30 tool capacity  
10,000 min-1  
Working Surface: 1359mm x 600mm  
Loading Capacity: 1000kg  
Traverse: (x) 1050mm (y) 530mm (z) 510mm

### **2 OFF MORI-SEIKI Dura 5080**

with **NEW** MAPPS III simple conversational programming and 3D simulation  
30 tool capacity  
10,000 min-1  
Working Surface: 1100mm x 600mm  
Loading Capacity: 800kg  
Traverse: (x) 800mm (y) 530mm (z) 510mm

### **MORI-SEIKI NMV3000-DCG with 114 Pallet A.P.C.**

#### **Five-axes machining centre with turning capability**

with **NEW** MAPPS IV conversational programming with CAM and 3D simulation  
320 BT40 tool capacity  
20,000 min-1  
Working Surface: 300mm diameter  
Loading Capacity: 80kg  
Traverse: (x) 500mm (y) 350mm (z) 510mm

From February 2012.....

### **MORI-SEIKI NMV8000-DCG with 8 Pallet A.P.C.**

#### **Five-axes machining centre with turning capability**

with **NEW** MAPPS IV conversational programming with CAM and 3D simulation  
300 HSK-A63 tool capacity  
20,000 min-1  
Working Surface: 800mm diameter  
Loading Capacity: 700kg  
Traverse: (x) 1,200mm (y) 920mm (z) 610mm

**ZOLLER smarTcheck 450 Tool Pre-setter**

Award winning CNC optical tool pre-setter for right first time tool setting  
Networked to the machine tools for fast tool set-ups

## **CNC Turning**

### **MORI SEIKI NTX1000-SZM**

Twin-spindle CNC Turning centre with **five axes milling capability.**

MAPPS II controls

65mm Ø bar with 1m magazine barfeed

Sub-spindle

Max turned length: 424mm

Spindle Speed: 6,000 rpm

Tool Spindle: 12,000 rpm

Spindle Capto C6 Tool Capacity: 76 tools

Tool Turret max speed: 6,000 rpm

Turret Tool Capacity: 10

### **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 Lathe Turning**

### **OKUMA LS**

540mm Swing

1,250mm between centres

Headstock 50mm Ø Max

### **HARDINGE Model HLV-HS**

254mm Swing

457mm between centres

## **Ovens (bonding)**

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

Genlab 50 litre Oven with Digital Controls

OV/50/DIG 20° - 250°C

## **Cutter Grinding**

CLARKSON MKII

## **General Plant**

VACUUM BEAD BLASTER

Guyson Orbit 800 Aqueous Wash Plant

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

## **Gaskets & Seals**

CNC Silicone gasket laying robot

## **Inspection**

### **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

### **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  
Pro-Manufacture  
AutoCAD  
CGTech Vericut

## **Production Management & Scheduling**

Sage 200 Suite

## **Transport & Loading**

1,500kg Fork Truck  
500kg mobile gantry