

PLANT & PROCESS LIST



CNC Milling, EDM & Toolroom



Turning/Mill-Turn

PLANT & PROCESS LIST

CNC TURNING

➤ Doosan Puma 400L

High speed Fanuc 32iT control
770mm swing over bed
590mm swing over saddle
560mm maximum turning diameter
2.028m maximum workpiece length

Maximum weight on spindle:
700kg chucking work/2000kg shaft work
116.5mm max bar diameter
Travel X,Z,C: 362mm x 2155mm x 360°

PL0003



➤ High speed Colchester Harrison 1550 XS

3.00 metre
Fanuc Alpha X Series Control
Max size of CNC workpiece: 590mm dia x 70mm lg / or
370mm dia x 3000mm lg

PL0001



➤ Doosan Puma 2600M C-Axis Turn-Mill

Fanuc OITD control
C-Axis Turn-Mill
76mm bar working diameter
780mm max swing
376mm max turning diameter

760mm max turning length
24 position indexing turret
3,500 rpm spindle speed
Travel X,Z,C: 260mm x 830mm x 360°

PL0008



➤ Doosan Puma 2600Y Y-Axis Turn-Mill

Fanuc OITD control
C-Axis Turn-Mill
76mm bar working diameter
780mm max swing
376mm max turning diameter

760mm max turning length
24 position indexing turret
3,500 rpm spindle speed
Travel X,Z,C: 260mm x 830mm x 360°

PL0052



➤ Daewoo Puma 250

76mm bar capacity
570mm swing
High Speed Fanuc OTC control

PL0001



PLANT & PROCESS LIST

CNC TURNING



Colchester CNC 2000L Lathe

Fanuc OT Control
8 station turret
Max size of CNC workpiece: 520mm dia x 130mm lg / or
260mm dia x 250mm lg / or 200mm dia x 1220mm lg

PL0001



Mazak QMS350 Quicksmart Lathe

Standard machining diameter: 254mm
Maximum machining diameter: 420mm
Maximum swing: 720mm
Chuck size main spindle: 12"
Mazatrol programming format

PL0029



Mazak Nexus 550M Slant/Turn Horizontal NC Lathe

Maximum machining diameter: 990mm
Maximum length: 3m
Maximum diameter in bar steady: 410mm
Mazatrol programming format

PL0032



XYZ Protturn SLX 425 Lathe

Standard Machining Diameter: ~42 mm (1.65 in)
Maximum Machining Diameter: ~250 mm (9.84 in)
Chuck Size (Main Spindle): 6 in (150 mm)
Mazatrol Programming Format

PL0001



PLANT & PROCESS LIST

CNC MILLING

DMG MORI DMF 260-11

High speed Simultaneous 5 axis machining centre
Heidenhain 530i high speed digital control
High speed Head; 12,000 rpm spindle speed
Travel X,Y,Z: 2600mm x 1100mm x 1100mm

Rapid Traverse 60 metres/min
Linear Scales
Network Link
64 Tool Magazine
Table 3000mm x 1100mm
Max table load 3000kg

PL0017



Bridgeport VMC 1500XP3e

High speed Simultaneous 5 axis machining centre
Heidenhain 530i high speed digital control
High speed Head; 10,000 rpm spindle speed
Travel X,Y,Z: 1500mm x 600mm x 600mm

Rapid Traverse 32 metres/min
Linear Scales
Network Link
32 Tool Magazine
Table 1700mm x 660mm
Max table load 1500kg

PL0001



Bridgeport VMC 2000XP2

High speed 3 axis machining centre
Heidenhain 530i high speed digital control
30-Tool carousel
12,000rpm spindle
Network Link
Linear Scales

Travel X,Y,Z: 2000mm x 800mm x 500mm
Table size: 2000mm x 650mm x 500mm
Spindle speed 40-8,000 rpm
28 m/minute Rapid Feed in X&Y:
20 m/minute Rapid Feed in Z

PL0001



Quaser MV184

Heidenhain 530i MB control
Travel X,Y,Z: 760mm x 610mm x 610mm
Working surface: 900mm x 600mm
Spindle speed: 12,000 rpm (belt driven)
Through-spindle coolant

PL0054



Bridgeport VMC 1000XP3

High speed Simultaneous 4 axis machining centre
Heidenhain 530i high speed digital control
Network Link
Linear Scales
Travel X,Y,Z: 1020mm x 500mm x 600mm

PL0001



PLANT & PROCESS LIST

CNC MILLING

➤ Bridgeport VMC 1000XP2

High speed Simultaneous 3-4 axis machining centre
Heidenhain 530i digital control
Network Link
Travel X,Y,Z: 1000mm x 610mm x 610mm
Table size 1150mm x 580mm

PL0001

43 metres/minute Rapid Feed in X&Y
43 metres/minute Rapid Feed in Z
30 Tool changer capacity
Spindle speed 40-8000 rpm



➤ Correa CF22/20

X,Y,Z Travel - 2000mm x 800mm x 800mm
TNC426 Digital Control
4th (head) Axis

PL0001 & PL0049



➤ Mazak VCS530C—Matrix Nexus 2

X,Y,Z Travel - 1740mm x 530mm x 510mm
Table size: 1,300mm x 550mm
Maximum load on table: 1,200kg (equally distributed)
Feed rate: 42,000 mm/min X,Y,Z axis
Spindle speed: 12,000rpm

PL0041



➤ Bridgeport VMC 1000e

Table Size: 1000 mm x 500 mm (39.4 in x 19.7 in)
X, Y & Z-Axis Travel: 1000 mm x 500 mm x 500 mm
Spindle Speed: Typically up to 10,000 RPM
Weight: Approximately 2,500 kg (5,500 lbs)
20-24 tools capacity

PL0001



➤ Hedelius Tiltenta II Magnum 3600

Table Size: 4080 mm x 1100 mm
X-, Y and Z Axis Travel: 3600 mm x 800 mm x 600 mm
Spindle Speed: Typically up to 12,000 RPM or more
Spindle Taper: Usually ISO 40 or similar
Tool Capacity: 30 to 40 tools
Weight: Approximately 6000 kg (13,228 lbs)

PL0041



PLANT & PROCESS LIST

CNC MILLING

Correa CF17D

Heidenhain 530i control
X,Y,Z Travel - 2000mm x 800mm x 800mm
TNC426 Digital Control
Programmable 4th (head) Axis
With extraction and sealed CAD/CAM for machining of
Carbon fibre composites

PL0001



Kiheung U1000-(2)

Heidenhain 530i control
X,Y,Z Travel - 3100mm x 1000mm x 1050mm
4th axis interface
Through tool coolant

PL0013



FIL FA 160

Bed-type Universal
Heidenhain TNC415 Control
X,Y,Z Travel - 1600mm x 700mm x 850mm
Table size 1950mm x 650mm
Maximum load 2 tonnes
18 speed spindle 50-2000 rpm

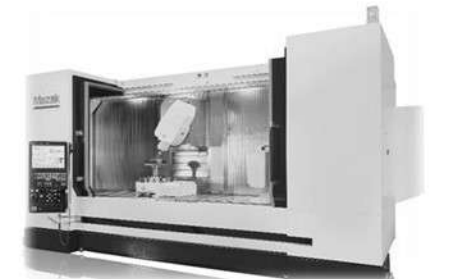
PL0001



Mazak VTC800/305SLR - Matrix 2

Spindle Speed:	18,000 rpm
Spindle Torque:	168Nm
Machine Travel:	X=3000mm Y=800mm Z=720mm
Table Loading Capacity:	2,500kg
Coolant Pressure:	15 bar

PL0038



PLANT & PROCESS LIST

CNC MILLING



DMG MORI DMF 180-7

High speed Simultaneous 5 axis machining centre
Celos with Heidenhain TNC640 control
X,Y,Z Travel - 1800mm x 700mm x 700mm
Linear Scales
Table size - 2100mm x 700mm
40 metres/min Rapid Feed
Spindle speed - 20-8,000 rpm
30 Tool capacity

PL0066



GF Mikron HPM 1350U

5 axis/5 simultaneous
Heidenhain iTNC530 control
X,Y,Z Travel - 1350mm x 1150mm x 700/895mm
Rotary table 1100mm in diameter
Max workpiece weight 1600kg

PL0064



Kiheung U1200

Table Size: 4000mm x 1150 mm
X,Y & Z Axis Travel: 4000mm x 1150mm x 550mm
Spindle Speed: Typically up to 8000 RPM
Spindle Taper: Usually BT40 or similar
Tool Capacity: 20 to 30 tools
Weight: Approximately 3000 kg (6614 lbs)

PL0064



Mazak VTC-530C

Table Size: 2300 mm x 630 mm
X, Y, and Z Travel: 1050 mm x 600 mm x 600 mm
Spindle Speed: Typically up to 12,000 RPM
Tool Capacity: 20 to 30 tools
Weight: Approximately 4000 kg

PL0038



PLANT & PROCESS LIST

CNC MILL/TURN



Mazak Integrex i400

1519mm between centres
(max machining length)
12" chuck
240° B axis movement
Simultaneous 5 axis machining
36 tool carousel with chip ID

PL0014

Main spindle max 3300 RPM
Milling spindle max 12000 RPM
Ø658 max swing capacity
Ø102mm max bar work capacity



Mazak Integrex i200

1011mm between centres
(max machining length)
10" chuck (quick release jaws)
240° B axis movement
Simultaneous 5 axis machining
36 tool carousel with chip ID

PL0016

Main spindle max 5000 RPM
Milling spindle max 12000 RPM
Ø658 max swing capacity
Ø65mm max bar work capacity



Mazak Integrex i400s

SmoothControl

3.00 metre
Fanuc Alpha X Series Control
Max size of CNC workpiece: 590mm dia x
70mm lg / or 370mm dia x 3000mm lg

PL0035

Main spindle max 5000 RPM
Milling spindle max 12000 RPM
Ø658 max swing capacity
Ø65mm max bar work capacity



Mazak Integrex i100 BARTAC-S - Smooth X

Maximum swing: 530mm
Maximum machining diameter 500mm
Maximum machining length: 854mm
Maximum support weight: 800kg

PL0048



Mazak Integrex i200s qty 2

1000mm Bed (Universal)
1011mm maximum machining length
658mm maximum machining diameter
Movement X, Y, Z: 615mm x 260mm x 1077mm

PL0051 & PL0063



PLANT & PROCESS LIST

TOOLROOM



XYZ Proturn-410 Lathe

Quick set-up, low volume production
Semi-CNC lathe
Max size of workpiece: 250mm diameter by 1m lg

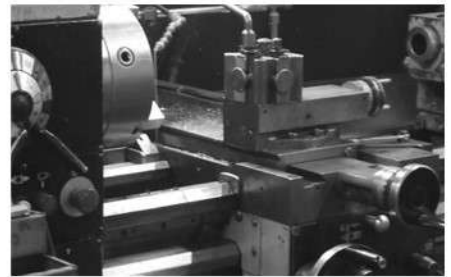
PL0001



Harrison M390 Lathe

Max size of workpiece: 520mm dia x 130mm lg /
or 260mm dia x 250mm lg / or 200mm dia x 1220mm lg

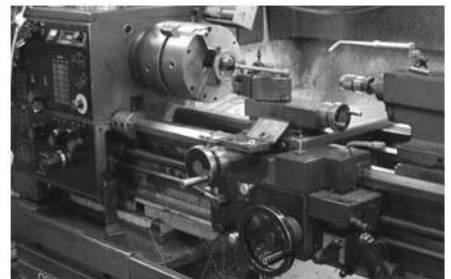
PL0001



Colchester Triumph 2500 Lathe

Max size of workpiece: 400mm dia x 150mm lg /
or 200mm dia x 1220mm lg

PL0001



PLANT & PROCESS LIST

TOOLROOM



XYZ SMX 4000 Vertical Mill

Variable speed head
58" x 14" table
40" x 24" x 23" travel
Maximum table load 850kg
Suitable for machining parts in small quantities

PL0001



XYZ SMX 3000 Vertical Mill

Variable speed head
54" x 12" table
32" x 17" travel
Maximum table load 550kg
Suitable for machining parts in small quantities

PL0001

