

Kenard Engineering Ltd Tewkesbury Plant List



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AS9100 REV C
Registered



INVESTORS
IN PEOPLE



BSI
FM 543135



Flexible Machining Centres



Mitsubishi M-H5B with 72 pallet Fastem linear rack system

5x Mitsubishi high speed horizontal machining centres are linked by a multi-level Fastems linear rack system, which holds 72 pallets. A centrally positioned stacker crane serves all 5 machines collecting and delivering pallets to and from any position on the three tier rack. A scheduling-type cell controller oversees all operating functions of the FMS. Continuous machining is aided by Tool breakage detection.



Mitsubishi M-H5B

A multiple pallet magazine supporting up to 8 pallets. Continuous machining is aided by tool breakage detection. Basic specifications:
Maximum work piece size - 800 mm x 760 mm
120 Tool ATC
500 mm x 500 mm work piece probing
Rapid traverse 40m/min
4 Axis



Mitsubishi M-H60E

A multi-pallet horizontal machining centre with seven pallets supporting up to seven separate fixtures. Offers true flexible machining 24/7. Basic specifications:
Max. machining envelope: 1000 mm x 800 mm x 800 mm
80 Tool ATC
Maximum spindle speed: 12000 RPM
Pallet change time: 20 seconds (chip to chip)



Matsuura M72-35 V

A high speed five-axis machining centre with a thirty six pallet automatic workpiece loading system. Designed for long periods of unmanned 5 axis simultaneous productivity. Basic specifications:
320 Tool Magazine
Maximum spindle speed: 15000 RPM
Advanced tool management system



Tsugami FMS 3

A multi-pallet Flexible Machining Centre that is ideal for the company's smaller work. Includes all the features of the FMA5. Basic specifications:
Max. machining envelope: 300 mm x 300 mm x 250 mm
Supports 11 pallets
126 Tool ATC



Hitachi Seiki 500

An 11 pallet Flexible Machining Centre capable of running unmanned 24/7. Basic specifications:
Max. work piece size: 500 mm x 500 mm
120 Tool ATC
Rapid traverse 45m/min



Doosan DNM 650 (x2)

A flexible machining centre with a full 4th axis. Basic specifications:
Axis: (x) 1270 mm x (y) 670 mm x (z) 650 mm
Maximum spindle speed: 12,000 RPM
BT 40 spindle
30 tool ATC



Tsugami FMS 5

A multi-pallet Flexible Machining Centre designed for high accuracy. Allows for continuous machining for two out of three shifts. Basic specifications:
Max. machining envelope: 500 mm x 500 mm x 500 mm
Supports 8 pallets
126 Tool ATC

Machining Centres



Fadal VMC 4020

A vertical machining centre with a 30 tool turret and Renishaw work probing. Basic specifications:
Table size: 1016 mm x 508 mm x 711 mm
Maximum spindle speed: 10,000 RPM
4 Axis



Fadal VMC 3016

A vertical machining centre with a 30 tool turret and Renishaw work probing. Basic specifications:
Table size: 762 mm x 406 mm x 508 mm
Maximum spindle speed: 10,000 RPM
4 Axis



Cincinnati Sabre 750

A vertical machining centre with a 27 tool turret. Basic specifications:
Working area: 760 mm x 510 mm
Maximum spindle speed: 10,000 RPM



Doosan HP 5100

A horizontal machining centre. Basic specifications:
Axis: (x) 850 mm x (y) 700 mm x (z) 750mm
Maximum spindle speed: 14,000 RPM
120 tool ATC
4 Axis (twin pallet changer)



Puma 700 LM

A large capacity, high productivity CNC turning centre. Basic specifications:
Max. turning diameter: 900 mm
Max. turning length: 3200 mm
Spindle RPM: 1500
Swing capacity: 1030 mm



Materials

We machine, treat, fabricate and assemble a large variety of materials, including but no limited to: Aluminium, Steel, Stainless Steels, Copper, Brass, Titanium, Magnesium and Plastics

Profile Machine



Flow Mach3B 1313b Water Jet Machine

This waterjet cutting machine is equipped with ultra pierce and full 3D dynamic contour control for increased performance and accuracy. Basic specifications:
Max. machining envelope: 1300 mm x 1300 mm
4000 bar cutting pressure will cut almost any material up to a thickness of 190mm to within +/- 0.05mm

Sheet Metal Equipment



Promecam Press Brake

50 tonne press brake. Basic specifications:
Bed length: 2 metres



Edward Pearson Press Brake

50 tonne press brake. Basic specifications:
Bed length: 3.1 metres



Haegar Insert Press

8 tonnes of ram force. Basic specifications:
Throat depth: 24 inches



Promecam Press Brake

Basic specifications:
2 metre up stroke



Strippit 100R

22 tonne punch press. Basic specifications:
Working area: 1250 mm x 1000 mm
Punch rate: 200
Hits per minute: 400
20 tool (2 with auto index)

Precision Machining - Vertical & Horizontal

Sheet Metal

Large CNC Turning

Waterjet Cutting

Zinc Phosphating

Wet Paint

Screen Printing

Alocrom & Irridite Plating

Powder Coating

Ultrasonic Cleaning

MIG & TIG Welding

Chemical Etching

Bead Blasting

Xylan Coating

Deburr

Vapour Blasting

Assembly & Test

Inspection Equipment



LK CMM G-90C

A vertical spindle with moving ceramic bridge CMM machine. The machine works on high efficiency air bearings and has a granite surface plate base with bonded straight edge. In common with the Merlin, this machine is automated but benefits from a larger working surface. Basic specifications:
Working surface: 100 mm x 700 mm x 600 mm



Mitutoyo B241

CMM Co-ordinate measuring machine. Basic specifications:
Working surface: 800 mm x 1500 mm
Traverse: (x) 700 mm x (y) 1000mm x (z) 450 mm



CE Johansson Micro-Hite 3D CMM

Small co-ordinate measuring machine with PC-DMISTM software to automatically collect and analyse measurement data. Basic specifications:
Work capacity: (x) 600 mm x (y) 750 mm x (z) 430 mm



Accreditations

AS9100 Rev C, BS EN ISO 9001:2008, BS EN 9100:2009