

Kenard Tewkesbury Plant List

Flexible Machining Centres



Mitsubishi M-H5B with 72 pallet Fastem linear rack system

5 Mitsubishi M-H5B high speed horizontal machining centres are linked by a multi-level Fastems linear rack system, which holds 72 pallets. A centrally positioned rail-guided stacker crane serves all five 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 with the Tool breakage detection. This installation is the largest and most advanced system ever installed by a contract manufacturing company in the UK.

Details: Maximum work piece size: 800 mm (dia) x 760 mm (length)
120 Tool ATC (per machine)
500 mm x 500 mm work piece probing
Rapid traverse 40m/min

No. Axis: 4



Mitsubishi M-H5B

A twin pallet magazine. Continuous machining is aided by tool breakage detection.

Details: Maximum work piece size: 800 mm (dia) x 760 mm (length)
120 Tool ATC
500 mm x 500 mm work piece probing
Rapid traverse 40m/min

No. Axis: 4



Mitsubishi M-H60E

A multi-pallet horizontal machining centre that suits larger work whilst incorporating the features of the M-H5B.

Details: Maximum 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)



Tsugami FMS 5

An 8 pallet Flexible Machining Centre designed for high accuracy. Includes all the features of the FMA5

Details: Maximum machining envelope: 500 mm x 500 mm x 500 mm
126 Tool ATC
Maximum spindle speed: 6000 RPM



Complete Manufacturing Solutions



Tsugami FMS 5

An 11 pallet Flexible Machining Centre that is ideal for the company's smaller work. Includes all the features of the FMA5.

Details: Maximum machining envelope: 300 mm x 300 mm x 250 mm
126 Tool ATC

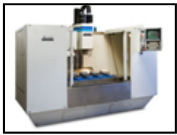


Hitachi Seiki 500

An 11 pallet Flexible Machining Centre capable of running unmanned 24/7.

Details: Maximum work piece size: 500 mm x 500 mm
120 Tool ATC
Rapid traverse 45m/min

Machining Centres



Fadal VMC 4020

A Vertical Machining Centre with a 30 tool turret and Renishaw work probing.

Details: Table size: 1016 mm x 508 mm x 711 mm
Maximum spindle speed: 10,000 RPM

No. Axis: 4



Fadal VMC 3016

A Vertical Machining Centre with a 30 tool turret and Renishaw work probing.

Details: Table size: 762 mm x 406 mm x 508 mm
Maximum spindle speed: 10,000 RPM

No. Axis: 4



Cincinnati Sabre 750

A Vertical Machining Centre with a 21 tool turret.

Details: Working area: 760 mm x 510 mm
Spindle speed: 10,000 RPM



Doosan DNM 650

Tewkesbury operates two DNM 650 Vertical Machining Centres. Both machines possess a full 4th axis interface.

Details: Axis specifications: (x) 1270 mm x (y) 670 mm x (z) 650 mm
Spindle speed: 12,000 RPM
BT 40 Spindle
30 tool ATC

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Doosan HP 5100

A Horizontal Machining Centre.

Details: Spindle speed: 14,000 RPM
Axis specifications: (x) 850 mm x (y) 700 mm x (z) 750 mm
120 tool ATC

No. Axis: 4 (twin pallet changer)

Sheet Metal Equipment



Promecam Press Brake

50 tonne Press Brake

Details: 2m bed length



Edward Pearson Press Brake

100 tonne Press Brake

Details: 3.1m bed length



Haegar Insert Press

8 tonnes of ram force

Details: 24 inch throat depth



Strippit 1000R

22 tonne punch press. 20 tool (2 with auto index)

Details: Working area: 1250 mm x 1000 mm
Punch rate: 200
Hits per minute: 400



Promecam Press Brake

Details: 2m Up Stroke

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.

Details: Working surface: 100 mm x 700 mm x 600 mm

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Mitutoyo B241

CMM coordinate measuring machine.

Details: Working surface: 800 mm x 1500 mm
 Traverse: (x) 700 mm, (y) 1000 mm, (z) 450 mm



CE Johansson Micro-Hite 3D CMM

Small CMM coordinate measuring machine.

Details: PC-DMIS™ software to automatically collect and analyse measuring data
 Work capacity: (x) 600 mm x (y) 750 mm x (z) 430 mm

Facilities

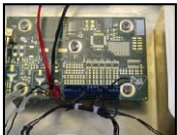


Water Screen Paint Spraying Booth



Paint & Powder Coating Facility

Details: Maximum temperature: 250°C. Complete with two spray booths and a 25 cubic metre oven measuring 4m x 2.5m x 2.5m is capable of wet painting and powder coating and is fully AS9100 approved.

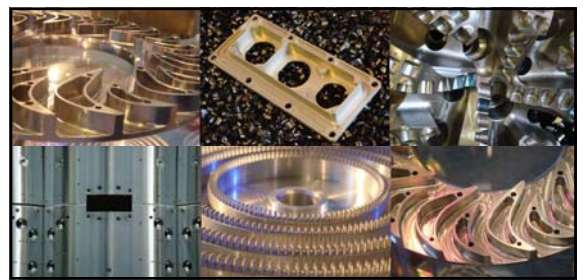


Electro Mechanical Assembly Facility

Details: With a floor space of 1160 sq feet, our electro mechanical assemble area is equipped with electrostatic discharge protection and is capable of handling the largest projects. All staff are fully trained on ECM awareness.



- Alocrom Plating
- Universal and Horizontal Mills
- Vapour Blasting
- MIG and TIG Welding
- Straight Graining
- Mechanical and Electro-Mechanical Assembly



Mission Statement

"...to continually strive for innovative manufacturing solutions through teamwork and technology, to consistently exceed our customers' expectations through quality and service..."

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