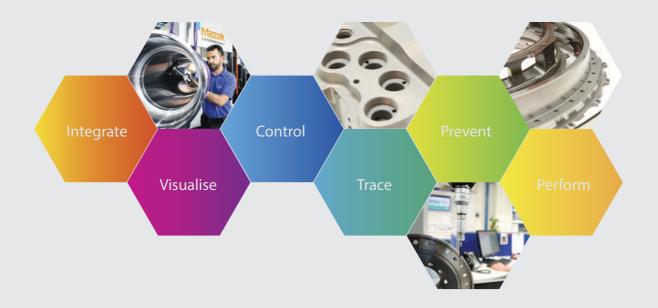


# **Kenard Engineering Ltd Tewkesbury Plant List**



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## **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

# **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

# **Sheet Metal Equipment**



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



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



**Edward Pearson Press Brake** 50 tonne press brake. Basic specifications: Bed length: 3.1 metres



**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



**Haegar Insert Press** 8 tonnes of ram force. Basic specifications: Throat depth: 24 inches

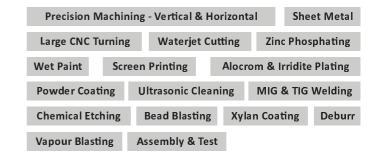


**Promecam Press Brake**Basic specifications:
2 metre up stroke





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)



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

