



## Kenard Group

### Tewkesbury Plant List

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Accreditations:  
AS9100 Rev D, BS EN ISO 9001:2015, BS EN 9100:2009



# Flexible Machining Centres



## Mitsubishi M-H5B with 72 pallet Fastem linear rack system

5x high speed horizontal machining centres, linked by a multi-level Fastems linear rack that holds 72 pallets. A centrally positioned stacker crane serves all 5 machines collecting and delivering pallets to and from any position on the 3-tier rack. A scheduling-type cell controller oversees all operating functions of the FMS. Continuous machining is aided by tool breakage detection.



### Doosan DNM 650 (x2)

A flexible machining centre with a full 4<sup>th</sup> axis.  
Axis: (x) 1270 mm x (y) 670 mm x (z) 650 mm  
80 Tool ATC  
Maximum spindle speed: 12000 RPM  
BT 40 spindle  
30 tool ATC



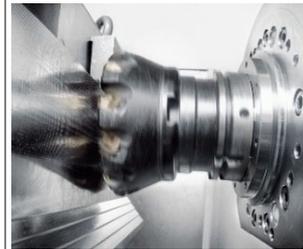
### Tsugami FMS 5 (x2)

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



### Mitsubishi M-H5B

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



### Mitsubishi M-H60E

A multi-pallet horizontal machining centre with 7 pallets supporting up to seven 7 fixtures. Offers true flexible machining 24/7.  
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)



### Hitachi Seiki 500

An 11-pallet flexible machining centre capable of running unmanned 24/7.  
Max. workpiece size: 500mm x 500 mm  
120 Tool ATC  
Rapid traverse 45m/min



### Doosan HP 5100

Horizontal machining centre.  
Axis: (x) 850 mm x (y) 700 mm x (z) 750 mm  
Max. spindle speed: 14,000 RPM  
120 tool ATC  
4-axis (twin pallet changer)

Our comprehensive range of multi-axis CNC machining facilities gives us the capability and flexibility to handle highly complex operations. We support manufacturing programs, across multiple industry sectors, that fully comply with global quality standards. Investments in new advanced technologies, engineering skills and tools that offer improved accuracy, reduced set-up times and high throughput rates deliver benefits that are passed on to our customers. We machine, treat fabricate and assemble a wide range of materials, including aluminium, steel, stainless steels, copper, brass, titanium,

## 5 Axis Milling Machining Centres

	<p><b>Matsuura M72-35 V</b>                  A high speed 5-axis machining centre with a 36-pallet automated workpiece loading system. Designed for long periods of unmanned 5-axis simultaneous productivity.                  320 tool magazine                  Max. spindle speed: 15000 RPM                  Advanced tool management system</p>
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	<p><b>Matsuura MX-520</b>                  A high speed 5-axis machining centre with a 4-pallet automated workpiece loading system. Designed for unmanned 5-axis machining and easy accessibility                  90 tool magazine                  Max. spindle speed: 12000 RPM                  Advanced tool management system</p>
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## Sheet Metal Equipment

	<p><b>Promecam Press Brake</b>  <b>Haegar Insert Press</b>  <b>Edwards 3.25 Truecut</b>  <b>Guillotine</b></p>
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## Inspection Equipment

	<p><b>DEA Scirocco-nt Brown and Sharpe</b>                  Measuring Capacity 900 x 1400 x 700                  Measurement accuracy: 5 + 6L / 1000                  Repeatability: 2 µm.                  Resolution: 0.5 µm</p>
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	<p><b>DEA Mistral Slout Bridge</b>                  Measuring Capacity 1000 x 660 x 660                  Measuring Accuracy: 4.5 + 5L / 1000</p>
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	<p><b>CE Johansson Micro-Hite 3D CMM</b>                  Measuring Capacity 440 x 490 x 390                  Measurement accuracy 3 + 4L / 1000                  Repeatability: 3.5 µm</p>
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	<p><b>Midland Metrology JT12 AZ Shadowgraph</b>                  300mm diameter screen and angular measurement,                  200mm x 100mm movement work stage with digital display</p>
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**Quality | Precision | Service**