

## Kenard Dartford Plant List

### Flexible Machining Centres



#### Mitsubishi M-H5B

A multiple pallet magazine supporting up to 8 pallets. 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

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#### Mitsubishi M-H60E

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

**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)

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#### Tsugami FMA 5

A multi-pallet Flexible Machining Centre designed for high accuracy. Allows for continuous machining for two out of three shifts. Supports 8 pallets

**Details:** Maximum machining envelope: 500 mm x 500 mm x 500 mm  
126 Tool ATC

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### Machining Centres



#### Fadal VMC 6030

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

**Details:** Table size: 1524 mm x 762 mm x 762 mm  
Maximum spindle speed: 10,000 RPM

**No. Axis:** 4

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#### 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



#### Doosan DNM 750 - 2 off

A Flexible Machining Centre with a full 4th axis.

Details: Axis specifications: (x) 1525 mm x (y) 762 mm x (z) 625 mm  
Spindle speed: 12,000 RPM  
30 tool ATC

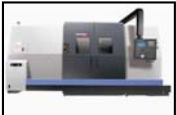


#### Mitsubishi FA30V EDM Wire Erosion Machine

This process is to NADCAP aerospace standard

Details: Stroke (X/Y/Z): 750 mm x 500 mm x 670 mm  
Maximum Work Piece Dimensions: 1300 mm x 1000 mm x 670 mm  
Maximum Work Piece Weight: 3000kg

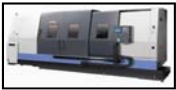
## Turning Centres



#### Puma 600

A large capacity, high productivity CNC turning centre with 12 position turret.

Details: Rapid traverse: 12/16m/min  
Spindle bore: 152 mm  
Swing capacity: 1030 mm  
1650 mm Z axis



#### Puma 700LM

A large capacity, high productivity CNC turning centre.

Details: Maximum turning diameter: 900 mm  
Maximum turn length: 3200 mm  
Spindle RPM: 1500  
Swing capacity: 1030 mm



#### Mori Seiki SL603

Designed for accuracy, rigidity and speed this machine features high speed feed on all axis.

Details: Maximum turning diameter: 930 mm  
Maximum turning length: 2000 mm  
Spindle RPM: 1500  
Swing capacity: 1000 mm

T: 01322 421200 | [www.kenard.com](http://www.kenard.com) | E: [sales@kenard.com](mailto:sales@kenard.com)



Kenard Engineering Co, Ltd  
Green Street Green Road  
Dartford  
Kent  
DA1 1QE



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#### Mori Seiki MT2500

State of the art turning/milling centre with 5 axis milling capability. Supports 120 tools

Details: Maximum turning diameter: 550 mm  
Maximum turning length: 1528 mm  
Swing capacity: 1850 mm

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#### Hitachi Seiki HC40 Hi-Cell

A combined CNC lathe and milling machine with 24 station automatic tool change facility.

Details: Maximum turning diameter: 330 mm  
Maximum turning length: 1050 mm

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#### Hitachi Seiki HT30G

12 station turret head.

Details: Maximum turning diameter: 500 mm  
Maximum turning length: 600 mm  
Swing capacity: 620 mm  
Spindle speed: 20-2500 min-1

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#### Hitachi Seiki HT40G

2 off 12 station turret head.

Details: Maximum turning diameter: 620 mm  
Maximum turning length: 1120 mm  
Swing capacity: 1000 mm  
Spindle speed: 20-2000 min-1

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#### Swedturn 20

High precision CNC lathe.

Details: Maximum turning diameter: 700 mm  
Maximum turning length: 300 mm  
Swing capacity: 1200 mm

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### Miscellaneous Tools



#### Microbore ECO11

The microset tool pre-setting unit serves as a measuring unit for the operation of drilling, milling and turning with their functional dimensions. The machine gives a readout with linear and rotary encoders. It can also send the data recorded through a post processor function to many of our machine tools.

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### CEMB Balancing Machine

This balancing machine is a hard bearing type machine, which enables easy calibration and the ability to obtain the most accurate measurements possible. This is achieved by inputting the geometrical dimensions. After a single spin, independent of the rotation speed, the machine automatically displays the value gram in ounces and the angular imbalance for both planes.

## 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



### Ferranti Merlin 750

A 3 dimensional CMM coordinate measuring machine.

Details: Traverse: (x) 750 mm, (y) 750 mm, (z) 500 mm  
Ferranti Profile Analysis Software  
SPC Software



### Etalon Derby 4.5.4

Used for fast dimensional measurement of components in the workshop. This intelligent measurement system automatically recognises geometric features, calculates dimensional data and shows the results geographically.



### DEA Scirocco

A five axis co-ordinate measuring machine.

Details: Stroke: (x) 1000 mm, (y) 1500 mm, (z) 800 mm

## Facilities



- Universal and Horizontal Mills
- Lathes with Anilam digital read-outs
- Altendorf panel sizing saw
- MIG, TIG and ARC Welding
- Vapour Blasting
- 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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