

# Kenard Engineering Co. Ltd

## Dartford Plant List



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## Turn/Milling Machining Centres - including integrated 5 axis



### Mori Seiki SL 603

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

Basic specifications:

Max. turning diameter: 930 mm  
Max. turning length: 2000 mm  
Spindle RPM: 1500  
Swing capacity: 1000 mm



### Hitachi Seiki HT40G (x 2)

Horizontal lathe/turning machine. Basic specifications:

Max. turning diameter: 620 mm  
Max. turning length: 1120 mm  
Swing capacity: 1000 mm  
Spindle speed: 20-2000 min-1  
12 station turret head



### Mazak Integrex i400 Matrix 2

A full 5-axis machining centre.

Basic specifications:

Max. machining diameter: 658 mm  
Max. machining length: 1519 mm  
72 position tool magazine and high pressure coolant



### Hitachi Seiki HT30G

Horizontal lathe/turning machine. Basic specifications:

Max. turning diameter: 500 mm  
Max. turning length: 600 mm  
Swing capacity: 620 mm  
Spindle speed: 20-2500 min-1  
12 station turret head



### Mori Seiki MT2500

State of the art turning/milling centre with 5 axis milling capability. Basic specifications:

Max. turning diameter: 550 mm  
Max. turning length: 1528 mm  
Swing capacity: 1000 mm  
Supports 120 tools

## Turning Centres, including Vertical Turning Centres



### Doosan Puma 700 LM (x2)

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  
High pressure coolant



### Doosan Puma VCL VT900M

Hard-cutting, high precision vertical turning centre. Basic specifications:

Max. turning diameter: 900 mm  
Max. turning length: 850 mm  
High strength and rigidity



### Doosan Puma 600

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

Basic specifications:

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

## Flexible Machining Centres



### 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)



### Tsugami FMA 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



### 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



## 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



### Doosan Mynx 750 (x2)

A flexible machining centre with a full 4th axis. Basic specifications:  
Axis: (x) 1525 mm x (y) 762 mm x (z) 625 mm  
Maximum spindle speed: 12,000 RPM  
30 tool ATC

## EDM Wire Erosion



### Mitsubishi FA30V

This process is to NADCAP Aerospace standard. Basic specifications:  
Stroke (X/Y/Z): 750 mm x 500 mm x 670 mm  
Max. work piece: 1300 mm x 1000 mm x 670 mm  
Max. work piece weight: 3000 kg

## Inspection Equipment



### DEA Scirocco

A 5 axis co-ordinate measuring machine. Basic specifications:  
Stroke: (x) 1000 mm x (y) 1500 mm x (z) 800 mm



### Ferranti Merlin 750

A 3-dimensional CMM co-ordinate measuring machine. Basic specifications:  
Traverse: (x) 750 mm x (y) 750 mm x (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.



### 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

## Miscellaneous Tools



### Jones and Shipman Cylindrical Grinder

Model: 1307  
Capacity: 14" diameter



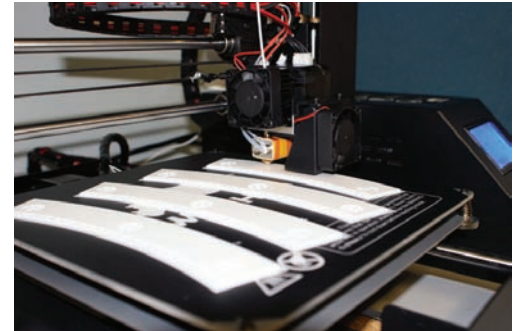
### CEMB Balancing Machine

Enables easy calibration and highly accurate measurements, which 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.



### Microbore EC011

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.



## Additional Capabilities

Precision machining - CNC turning  
Universal & horizontal milling  
Lathes & anilam digital read outs  
Altendorf panel sizing saw  
MIG, TIG & ARC welding  
Vapour blasting  
3D Printing

## Accreditations

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