

## CNC Milling Machines

### Okuma MX-60H

Twin-pallet CNC production machining centre. Each pallet is equipped with rotary tables for rotational positioning. Automatic measuring probe and 40-station tool changer fitted.



### Zayer KMU10000

Huge 10-meter fixed bed giving an 8-metre machining capacity. Equipped with a 20-tool auto change magazine, plus a universal positional head for multi-face machining. Ideal for machining yacht keels and bulbs and larger fabrications up to 30 tonnes.



### Johnford SDMC6000

Rigid body bridge mill for rapid removal of material. Full 5-face machining with 60-tool auto change magazine. Can accept workpieces up to 6 metres long and 2.8 metres wide weighing up to 40 tonnes. Also features an integrated touch probe for final inspection or measurement.



### Okuma MA-60

Production-style 6-pallet CNC machining centre. Equipped with rotary tables and 40-station tool changer.



### Union BFT130

A 3-axis boring and milling machine with both right-angle and universal heads, and a facing head to face and bore up to 2000mm diameter. Also equipped with an infinitely positional rotary table. Controlled by a Heidenhain CNC controller. Up to 8-tonne capacity on the bed.



	Cutting envelope			Weight
	Length	Width	Height	
Okuma MX-60	1000	800	810	1,400kg
Zayer	8000	1000	1510	30,000kg
Johnford	6000	2800	1066	40,000kg
Okuma MA-60	1000	800	810	1,400kg
Union BFT-130	2850	2320	2430	8,000kg
Okuma MA-600	1000	800	810	1400kg
Doosan HM-1000	2100	1250	1250	

## CNC Vertical Lathe

### CKD 32/63

One of NZ's largest machines. Massive 40-tonne capacity on bed, with a machining envelope of 6.3 metres and 2.5 metres height. Equipped with full CNC turning package.



### Mazak 'Megaturn'

A twin-pallet production-style vertical lathe, capable of full CNC turning, drilling and tapping on both vertical and horizontal planes. Also has vertical and 90° milling capability. Features a 30-station tool changer.



### Schiess NTFR160

Precision vertical lathe. Full CNC drilling, turning, vertical and 90° milling and external grinding functions on an 11-tonne capacity bed.



	Swing	Height	Weight
CKD	6300	2500	40,000kg
Megaturn	1400	1200	1,500kg
Schiess	2050	1700	11,000kg

## CNC Horizontal Lathe

### Chevalier FCL

Teach lathe with full CNC turning. Fitted with hydraulic 3-jaw chuck. Features 3000mm between centres.



## Manual Horizontal Lathe

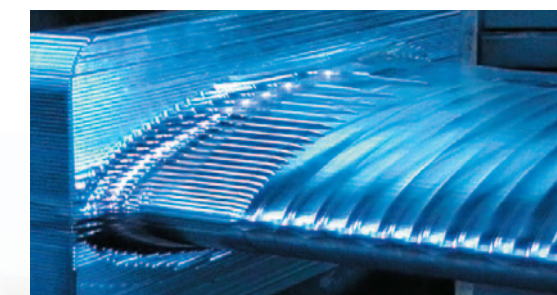
### Poreba TCC160

Large, heavy duty manual lathe. Huge 12000mm between centres. One of the largest lathes available.



	Between centres	Swing over bed	Swing over saddle
Chevalier	3,000	815	420
Poreba	12,000	1,600	1,250

Machined keel



## Horizontal Boring

### TOS

Manually operated. Table 1100 x 1100, table to bar centre 900, cross travel 1250.



### DRILLING

#### Asquith

Large Radial drill with 2450 radius. Takes up to No.5 Morse Taper.

#### Bergonzi

Radial drill with 1250 radius x No.4 Morse Taper TR40.

### TOOL ROOM

A full range of tool and jig making equipment is available, including tool and cutter grinders etc. Calibrated and certified measuring equipment also available.



## Other Machinery

### PLANING

#### Stirk

Open Side planing machine with a 6-metre stroke. Open-sided bed means this machine can handle very wide workpieces. Rails are tted to the floor adjacent to the machine to support wide items.



### GRINDING

#### Churchill Surface Grinder

Table 1520 x 400, height under stone 380.

#### Plain Surface Grinder

Table 630 x 200.

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