

## Capacity List

A&D Precision Engineering manufactures an extensive range of quality precision products and components. A list of the machines used by us are as follows:

### Lathes:

Nakamura-Tome Superturn 5 CNC: Max turn dia 500mm, 450mm between centres, spindle dia 80mm  
Okuma Howa Act4: Max turn dia 350mm, 750mm between centres, spindle dia 67.5mm  
Mori Seiki SL3 CNC: Max turn dia 200mm, 500mm between centres, spindle dia 42mm  
2 x Takisawa TS15 CNC: Max turn dia 180mm, 310mm between centres, spindle dia 33mm  
Harrison M400: 450mm swing, 100mm between centres, spindle dia 66.5mm gap bed 480x115mm  
XYZ 1640 manual: Max turn dia 250mm, 1000mm between centres, spindle dia 55mm  
XYZ 1400 manual: Max turn dia 200mm, 750mm between centres, spindle dia 45mm

### Milling machines

2 x Bridgeport VMC 760: 3 axis, movement X 800, Y 500, Z 500mm 22 tool carousel  
Bridgeport VMC 720: 3 axis, movement X 760, Y 410, Z 520mm 20 tool carousel  
Bridgeport VMC 600: 3 axis, movement X 600, Y 410, Z 500mm 22 tool carousel  
Bridgeport VMC 520: 3 axis, movement X 510, Y 400, Z 450mm 20 tool carousel  
3 x Bridgeport Interact 4: 3 axis, movement X 760, Y 370, Z 150mm quill, 335mm knee elevation  
Bridgeport Interact 1 Mk II: 3 axis, movement X 660, Y 305, Z 127mm quill, 335mm knee elevation  
Ajax heavy duty vertical manual mill with DRO: Max X 1000, Y 500, Z 500mm

### Grinding

Jones and Shipman 540 surface grinder: X 450, Y 150, Z 200mm  
Jones and Shipman cylindrical grinder with DRO: Max dia 250mm, 450mm between centres  
Alexander tool and cutter grinder  
Brierly ZB25 tool grinder  
A range of precision grinding fixtures, compound and sine tables, Grind All cylindrical grinding fixture

### Saw cutting

Metalin bandsaw: 250mm max cutting diameter

### Inspection

Macro Dynascope 5D universal inspection and measurement system with digital inspection camera  
Hilger and Watts shadowgraph  
Full inspection equipment: micrometers, slip gauges, bore micrometers, wide range of screw and plug gauges, dial test indicators etc.

### Other services

In addition to our in-house capacity, we can offer a range of other manufacturing and finishing processes. Including: hardening, surface treatments, laser cutting, water jetting, spark erosion, sheet metal forming, welding and fabrication. We utilise a range of software that enables us to accept 3D models and drawings of any type.