



## PLANT LIST

### CNC MILLING

*Our NC Milling capabilities range from simple 1off programming to 3 Axis surface machining with the added feature of a 4th Axis machining, all these are mainly programmed from our CAD/CAM (Mastercam) system using customer files in the STEP, IGES or DXF format.*

#### **XYZ 1010 VERTICAL MILLING CENTRE**

With a capacity of 1000mm x 500mm and Z movement of 500mm, this machine is very robust for the larger sized parts, this machine comes with the programmable 4th Axis and also can be programmed at the machine itself as well as programs transferred from our CAD/CAM system.



#### **XYZ 1000LR VERTICAL MILLING CENTRE**

Has all the same capacity as the XYZ 1010 but without the 4th Axis, again can be programmed at the machine or a program transferred from our CAD/CAM system.



#### **CINCINNATI DART 500 VERTICAL MILLING CENTRE**

Is a smaller footprint of the above machines but has the same capabilities.



#### **XYZ SMX 2500 BED MILL**

Ideal for 1 off's and smaller batches and is ideally suited to do the awkward operations the milling centres can't do.



#### **XYZ EDGE 1500 VERTICAL TURRET MILL**

With 2 Axis programming, which also compliments the VMC's on operation they can't do.

### CNC TURNING

*Our NC Turning capabilities range from small diameter (Ø3mm) to large diameter parts (over Ø300mm diameter) in varying degrees lengths and up to a maximum length of 1 meter.*

#### **HURCO TM8i**

Hurco TM8i Turning Centre with multifeed bar feeder, is ideal for medium to larger batch runs from 3mm to 51mm diameter in a collet chuck with parts catcher, larger diameters can be accommodated with a 3 jaw chuck and revolving centre, this machine can be programmed directly at the machine itself or a program can be transferred from our CAD/CAM (Mastercam) system.



#### **XYZ COMPACT TURN 52**

XYZ Compact Turn 52 turning centre which has a small footprint is the ideal machine for 1 off's/prototype and smaller batches and is also can be programmed at the machine itself, as well programs transferred from our CAD/CAM (Mastercam) system.



#### **XYZ SLX555 PROTORN**

XYZ SLX555 Protorn is the ideal machine for 1 off's and smaller batches in larger diameters with a maximum length of 1 metre drilled hole, this machine has a maximum swing of 560mm diameter over the bed and has a maximum cutting length of 1.5metres. it has an easy to use programming system.



#### **XYZ SLX1630 PROTORN**

XYZ SLX1630 Protorn is the baby version of the SLX555 which has all the same functions with a swing of 150mm diameter and a turning length of 500mm.



#### **EXCEL MUSTANG 400 CNC CENTRE LATHE**

Excel Mustang CNC Centre Lathe with an easy to use programming control is another machine we use for small batches from 200mm diameter to a turning length of 600mm.



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## PLANT LIST

### MANUAL MACHING

Our manual machining capabilities include various grinding solutions from Cylindrical, centreless and surface, we also have the capability to re-grind milling cutters, drills and reamers, our grinding machines are as follows:

- Jones and Shipman Universal Grinder
- Jones and Shipman Surface Grinder
- Myford Universal Grinder
- Centreless Grinder
- Jones and Shipman Cutter Grinder

Our other manual operated machinery include a 50 Tonne Power Press, various Pillar Drills, band saws, 8ft Safan Guillotine with digital readout, box and pan folder and a Carbolite oven for Heat treating and last but not least a small sand blasting cabinet, all these facilities complement our main area on Turning and Milling.

### QUALITY

At Fort Precision Engineering (IOW) Ltd we pride ourselves in the excellent quality of the services we provide to our customers with both manual and CNC turning, milling and grinding services.

It is the policy of Fort Precision Engineering to meet contractual timescales and requirements, including providing our clients with competitive prices. This is supported by a fully documented management system, which is reviewed and improved accordingly.

Our processes are supported by a fully documented quality management system, which is subject to regular internal and external audits.

The effectiveness of the quality management system is reviewed for continual suitability and improvement, so as to enhance the service provided to our customers.

We ensure that we satisfy all agreed Customer requirements, compliance obligations and all relevant requirements, including:-

- ISO 9001:2015
- GDPR Regulations 2018

### INSPECTION

Here at Fort Precision our inspection department is fully equipped and all inspection equipment fully calibrated to ISO 9001 standards, so all parts comply to customer drawing specifications.

Faro Gage Arm is our most useful piece of equipment, it can inspect to high tolerances, can reverse engineer a part for us to manufacture and also inspect parts on a machine to insure the part is correct before removing.

We also can provide Dimensional reports and more in depth First Article Inspection Reports (FAIR).

All shop floor inspection equipment are calibrated every six months and all thread and ring gauges are calibrated to UKAS.