



PACT

ENGINEERING

...precision engineering at its best



About us

Pact Engineering offers a wide range of modern sub-contract engineering services. The variety of these services is shown by the range of work shown in this brochure. We are able to provide for complete turnkey projects or produce small precise machine components, one offs or batch work.

Pact Engineering Limited is a sub contractor and manufacturer of high quality precision components and has vast experience and skill in high tolerance, complex components and exotic materials.

We will cater for our customers' requirements whether in high quantity or small batch production through to one off prototype components, tool manufacture or development projects and we will deliver the desired product on time.

We have many years of experience and specialise in the Aerospace, Motorsport, Automotive, Pump and Medical industries and are able to produce components in a very short lead time at a very competitive rate.

Manufacturing services

- E.D.M
- Wire Eroding
- Spark Erosion
- C.N.C Turning
- C.N.C Milling
- C.N.C Grinding
- Manual Milling
- Manual Turning
- Manual Grinding
- Universal Grinding
- Assembly Services

Customer base

- Aerospace
- Motorsport
- Rally Cars
- Formula One
- Simulator Prototype
- M.O.D
- Automotive
- Injection Mouldmaking
- Toolmaking
- Hydraulics
- Medical
- Food Preparation
- Tape Cutting
- Converting Machines



Grinding Department

Over 30 years of precision grinding expertise combined with continued investment in the latest precision grinding technology makes Pact Engineering Ltd, the complete solution to all of your precision grinding requirements.

Turning Department

Our Turning department currently has 5 Takisawa CNC machines one of which has live tooling. In addition we have a MILLS twin spindle live tooling lathe and a large capacity Colchester CNC lathe, all of which can be programmed offline using Feature Cam Design Software.

At Pact Engineering we strive to achieve the very highest standard in machining, from small batch to high volume, each receiving the same level of quality attention.

Grinding services available

- Jig grinding
- Internal Grinding
- External Grinding
- Surface Grinding
- C.N.C Studer Grinding
- C.NC Internal & External
- Manual Universal Grinding

**Programming can be done
at machine or programmed
offline and DNC downloaded**



Milling Department

Currently we have 6 CNC YCM vertical machining centres ranging in size up to a maximum machining capacity of the 1524mm x 596mm x 584mm.

All our machines are fitted with measuring probes. TS three-dimensional touch trigger probes can be used to measure work pieces under program control, even between individual machining cycles - for example to compensate tool wear. The NC control can transmit the results of measurement through the data interface or use them for in-process control.

We can also offer the capability of 5th axis machining using our nikken 5 axis rotary.

Manual Milling

Currently we have 2 XYZ fixed turret machines and 1 DPM 5000 milling machine

The introduction of our XYZ machines gives us the flexibility to reduce the workload on our CNC milling side but still achieve the quality required by the customer.

The DPM 5000 also gives us the ability to machine larger capacity.

Inspection Department

Major refurbishment, expansion and investment has resulted in superb inspection facilities and an extensive range of inspection and metrology instruments.

All equipment is calibrated to ISO international standards.

Our comprehensive range of equipment ensures accurate and thorough inspection of all components and includes the following.

Inspection equipment

- CMM Brown & Sharp Microval 454
- Trimos Vectratouch Height Gauge
- Mitutoya SG4 Shadowgraph
- Propen Etching System
- Bowers Internal Digital Measuring 6 to 200
- Mitutoya SJ201 Surface Tester
- Material Analyzer to check material spec to customer requirements
- Full Range of Thread Gauges internal and external
- PC-DMIS Measuring software





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