

BRIDGECRAFT

ENGINEERING LTD



www.bridgecrafteng.co.uk

Complete Subcontract Machining specialising in Multiple Work-holding Rotational Fixture Machining (MWRFM)

Established in 1995, Bridgecraft Engineering Limited specialise in the manufacture of high quality precision-engineered components.

Bridgecraft adopts an open-minded approach to engineering challenges that often results in the use of unorthodox techniques to reduce cycle times and overcome problems.

Use of the latest manufacturing techniques with a combination of CNC and conventional machines enables Bridgecraft to deliver the highest quality components at competitive prices.

We offer a unique machining service that can handle anything from a one-off prototype to any required batch size.

Flexible customer delivery arrangements: from monthly call-off of parts held on stock, to the supply of complete assemblies.

- Quality, price and delivery guaranteed
- Multiple Work-holding Rotational Fixture Machining
- Stockholding at no extra charge
- 24 hour production (reduced lead times)
- Free delivery
- Fixture design and manufacture
- CNC turning up to 400mm diameter and 800mm between centres
- Bar feed CNC turning up to 45mm diameter
- CNC milling up to 250kg
- Manual turning up to 700mm diameter and 1500mm between centres
- Manual milling up to 250kg
- TIG welding specialists
- Inspection procedures tailored to individual customer requirements
- Auto cutting up to 275mm diameter



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If you are likely to subcontract any manual or CNC machining, or any work that you feel may be suitable

Here are just two examples of how this process has transformed productivity and cut cycle times. One company to benefit from MWRFM is JMS Extrusions who approached us with a job that had previously been placed with subcontractors using conventional CNC machining practices.

The job involved the machining of an extruded bracket on four different planes. Other subcontractors had tried to do the job in multi-vice set-ups, which still required four operations, and consequently could not get near JMS's target price.

Bridgecraft designed and made a set-up to machine 15-off in one operation bringing the unit price down to half of the customer's target price. This included absorbing the cost of developing and making the fixtures into the first batch of 1,500 pieces. We currently machine 6,000 pieces per year.

Bridgecraft also works closely with GKN Sheepbridge Stokes. GKN produce cylinder liners for the automotive industry.

One of the liners they produce is turned all over and then has features milled at one end. GKN invested over £150,000 in two pallet change machining centres to do this one milling operation. After eight months one of the machining centres failed, leaving a production shortfall.

Following earlier discussions with them, we suggested that our process might be suitable for this operation. Within three days we had one machine up and running, the end result being GKN ceased milling in-house and gave Bridgecraft the contract for this job indefinitely.

We currently double shift two machines on this job at a production rate of 300 liners per hour, compared to GKN's production rate of 100 per hour. In the last twelve months we have machined over three quarters of a million liners.

If you are likely to subcontract any manual or CNC machining, or any work you feel may be suitable for our MWRFM process, we would be pleased to supply a quotation and/or arrange a viability study.



JMS PARTS



GKN PARTS

