

CRABB ENGINEERING



progress through precision

PRECISION ENGINEERS
CNC COMPONENTS
MECHANICAL ASSEMBLIES

EQUIPMENT BREAKDOWN & REPAIR



the complete engineering service



MATERIALS WE PROCESS

- STAINLESS STEEL AND SPECIAL ALLOYS
- MILD/CARBON STEELS
- TOOL STEELS
- ALUMINIUM, INCLUDING AEROSPACE MATERIALS
- BRASS AND OTHER NON-FERROUS METALS
- ENGINEERING PLASTICS AND REINFORCED PLASTICS



WHAT WE'RE ALL ABOUT

Our continuing mission is to grow and maintain a strong, successful and enduring business with precision machining technology at its core, by unlocking the skills, expertise and potential of all our employees.

We have grown over the years, both organically and with the addition of some strategic and relevant business acquisitions since Martin Crabb founded the company in 1994. We can now offer a wide range of precision CNC and traditional engineering disciplines.



NOT JUST CUTTING METAL

Along with our in-house manual and CNC engineering facilities, we work with our trusted partners to offer a comprehensive range of additional services.

They range from composite materials, various surface finishing treatments including, polishing, passivation, plating, chemical blacking, anodizing, paint & powder coating and laser-marking.

Add to that, tube-bending, welding, and metal fabrication and you have a true "one stop shop" for all your engineering needs.

PROBLEM PARTS & COMPONENTS?

Our engineering expertise and wealth of knowledge gives us the ability to take a problem solving approach to manufacturing challenges.

Challenge us! With our experienced and highly skilled team, our reverse engineering review can reveal and implement true cost savings for your engineered components and assemblies. And all based on real-world experiences in manufacturing.

CAPABILITIES, CAPACITY AND SERVICES

CNC MACHINING

CNC Machining is our mainstay and has been at the heart of our business since the company was founded. We have a wide range of equipment and a highly trained engineering team to offer high quality and flexibility.

ACCURACY & CONSISTENCY

As you would expect, batch repeat work is where we excel. Offering batch consistency and repeatability, from part-to-part and from batch one, to batch 10, 100 and beyond.

MANUAL MACHINING

We have 7 x machines in total, 4 for milling and 3 for turning.

For milling, we have a maximum table size of 1400mm x 250mm. On turning, we have a maximum capacity of 2,000mm between centres and a maximum swing of 700mm.

Each one of our machines is fitted with a digital readout.



PRECISION CNC TURNING

We have 9 x CNC Lathes, including Akebono, Daewoo, XYZ, Hitachi-Seiki, Romi & Haas. 2 x Doosan Mill-Turn Machines with up to 9 axis and full auto bar feeds up to Ø76mm max and Ø250mm maximum chuck holding. Live Turn and CNC Lathes with up to Ø65mm max bar feeds and Ø230mm maximum chuck holding. All machines programmed off-line using EdgeCam® and MasterCam® software.

PRECISION CNC VERTICAL MILLING

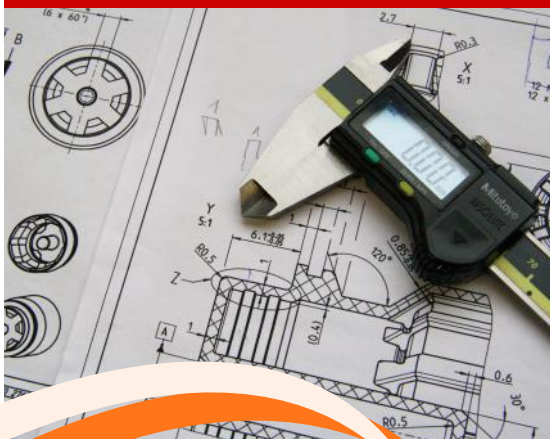
12 x CNC Machines including Haas, Doosan and Bridgeport with capacity up to 1200mm.

5-Axis and 4-Axis with rotary table facilities, allow 5-sided milling. All our machines are programmed off-line using EdgeCam® software. Some with 'in-process' inspection probes.



ADDED VALUE SERVICES

- **FINISH MACHINING OF FORGINGS & CASTINGS**
- **SURFACE GRINDING**
- **SUB AND FULL ASSEMBLIES**
- **HEAT TREATMENTS**



The complete engineering service



WHAT DO YOU NEED?

We are adept at producing subcontract parts to our customers drawings and specifications. We also have years of experience of producing bespoke mechanical assemblies. As ever, working alongside our customers, we provide engineering support, offer solutions and improvements, all as part of the service.



WHERE WE OPERATE

- **Automotive**
- **Marine Industry**
- **Medical Industry**
- **Leisure & Play Sectors**
- **Production Equipment**
- **Oil, Gas & Green Energy**
- **Aerospace and Military; including Hi-Spec Optics**
- **Pressure Regulation and Flow Control**
- **Food and Pharmaceutical Industries**
- **Packaging Industry**



QUALITY IS THE KEY!



We are committed to quality and hold both ISO 9001 and 14001 environmental approval for all of our manufacturing processes. Working with Crabb, you can be assured that you are receiving first class service, certified materials, approved and controlled systems and processes designed to give you the best possible experience for components and assemblies.

Copies of current certificates are available upon request.

We have a Keyence im8000 image dimension measurement system, possess both CNC and manual CMM inspection equipment, a wide range of gauges, all fully calibrated and strictly controlled. We offer full inspection reports, upon request, and full traceability for materials used. Certificates of Conformity for parts and assemblies, come as standard.





KANBAN PARTS IN STOCK

We use popular parcel delivery and palletized companies for logistics. We also have a variety of our own vehicles, to support a wide range of delivery and collection challenges.

DELIVERY & LOGISTICS

WHAT IS CRABB AoS?

The Crabb Always on Stock System (AoS), is our proprietary system, driven and controlled by our bespoke Database.

AoS is a way of scheduling orders for production, and dispatch, to provide an "always on stock" solution. A buffer stock allows for quick deliveries, within 24-48hrs, based on your requirements. In most cases we work on a 12-month period but the stockholding time can be varied to suit.

By its very nature, you are getting the very best prices, based on production efficiencies and raw material purchase quantities. A further benefit is that you are only invoiced for the goods when we ship them! So, no extra charges for storage are made.

Talk to us, we can help you plan and improve your cash-flow!



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LEARNING TO GROW

Tell me and I forget.

Teach me and I remember.

Involve me and I learn.

Benjamin Franklin

BESPOKE CUSTOM ASSEMBLIES



TARGETING FUTURE GROWTH

Over the past few years, too many manufacturing industries have seen a growing skills shortage. In Wales and across the United Kingdom, the skilled but ageing workforce has not been replenished and the manufacturing industry finds itself needing to recruit more staff than are available in the existing talent pool.



APPRENTICESHIPS

At Crabb, our ambitious plan is to fill the skills-gap with fresh, young and enthusiastic apprentices. An idea that our Directors pay more than just lip service too.

Continued growth over the years, which includes both expansion and acquisition, means that we are experiencing our busiest times since the company was founded in 1994.

As quality is at the forefront of everything we do, with the help of Coleg Cambria and Work Experience placements, there is a bright future for local candidates who join us, and for the company in the long-term.



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PLANT & EQUIPMENT

To remain competitive in engineering, it is vitally important to keep up with the latest technologies. We have a program of continual investment, at CRABB and in the past few years we have brought in new machines from HAAS Automation, including three new multi-axis milling machines, an ONYX Pro 3D printing machine, from Mark Forged®, with further equipment to come in the future.

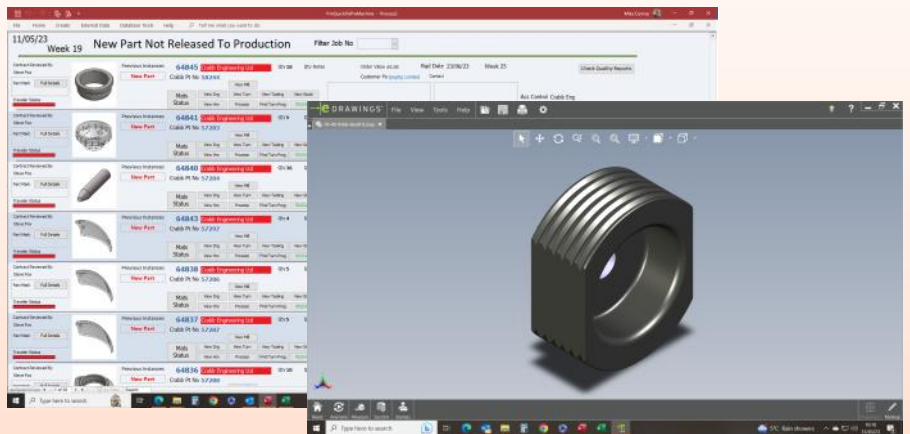
3D PRINTER (Rapid Prototypes)



SYSTEMATICALLY YOURS

At CRABB we have a custom-built database, that grows and adapts with both our and our customers needs. Every aspect of the manufacturing process is monitored & recorded and is used to produce reports that assist with, purchasing, stock control, machine and tooling health and provides "live" job status, at the push of a button!

This helps us to plan more efficiently and continue to achieve our excellent on time delivery performance.



TOOLED UP AND READY TO GO

With experience, comes knowledge and with that a lot of tools, too!

We have accumulated a vast amount of tooling and gauges (pin, plug, thread, ring, GO, NO-GO, etc.) over the years and have many sizes and types, both imperial & metric. This could mean we already have the 'kit' ready to go and can offer you faster lead-times than our competitors.

WHERE TO NEXT?

As a dynamic and forward thinking company we are driven, not only by our customer's needs, but also by advancements in technology.

We adapt to the future!

Become a part of our success story.

The complete engineering service

Proud to be a member of



We have an 'open door' policy and welcome any audits or visits to our site to discuss quality and your engineering requirements. We can show you how our robust systems help to make us a 'virtual extension' of your own capabilities.

Call one of our team or your representative, if you would like to visit us in Flint.



Find out more about us by visiting our website.

You can go straight there by using this QR Code.



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