

COMPANY PROFILE

Drury's^d
Engineering

AN INTEGRAL PART OF YOUR SUCCESS

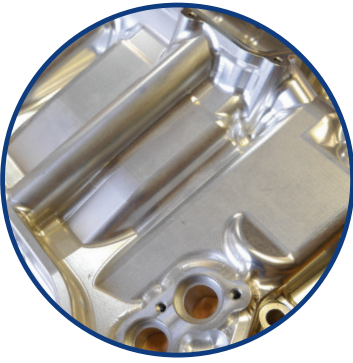
- Aerospace
- Automotive
- Oil & Gas
- Defence



**STATE OF THE ART MANUFACTURING,
MACHINING & ASSEMBLY**



An integral part of your success



“ Our products are tailor-made to meet client’s exacting needs, with engineers on hand to support our customer base every step of the way”

Our Heritage

For over 20 years, Drury's Engineering have developed a high performance culture of precision engineering. During that time we have achieved an unrivalled reputation for providing high quality products in some of the most demanding industries. This experience and expertise means we are able to offer a “one stop shop” purchase solution which is trusted by many global manufacturers.

Efficient Manufacturing to the Highest of Standards

We are always at the forefront of new manufacturing technology, either internally or through our extensive partnership program. We have a solid track record of responding quickly to the constantly changing demands of the specialist “life critical” sectors we serve. Drury's Engineering is totally committed to adding value to our clients and helping them to deliver excellence.

Maintaining Quality and Consistency of Supply

All our manufacturing is based in the UK and we operate to internationally accepted standards, including:

- BS EN ISO 9001:2008.
- BS EN ISO AS 9100.

This means we are able to provide a proven range of services coupled with our experience and expertise to offer robust, reliable and high quality solutions for our customers.

Specialist Machining of Exotic Materials

We have 20 years of experience working with a wide range of materials from soft to hard metals through to engineered polymers. The systems we operate offer full traceability to give our client and their customers’ peace of mind and consistency. Materials can be analysed to the latest industry acceptable tests and beyond.

Our ‘one stop shop’ solution offers a full range of Wet Processing, NDT, Heat Treatment, Welding and Clean-Room Assembly to complement our extensive machining capabilities.

Strive for Business Excellence

Our business improvement program ‘Vision of Excellence’ ensures that we are consistently looking to add value to our clients. This is through a combination of Lean, 6 Sigma and TPM methodology within our manufacturing and supply chain environments.

Markets

Defence

Drurys Engineering supply a variety of electro-mechanical machined and assembled parts to the Tier 1 defence contractors. Land, sea, air and security systems are all serviced by our extensive engineering expertise. Drurys strive to protect the time scales and reputations of our clients as they protect our nation and our allied countries. We understand that flexibility is key in every industry and that small batch “make to order” or medium volume “scheduled work” may be required, having a history of excelling at both.

Oil and Gas

The extreme operating environments of high temperature, high pressure and caustic media found within the oil and gas sector require components engineered using the pinnacle of material technology. We are uniquely positioned to ensure that these exacting engineering requirements are met. Our uncompromising drive for quality and our ability to machine the most difficult materials to complex geometries coupled with our supply chain readiness for post machining treatments make us the ideal partner.

Motorsport / Automotive

As a long standing supplier to the F1 and motorsport sector, we understand the technically complex needs and rigorous demands of this high octane industry. Our customers agree that partnering with us means that quality is guaranteed, giving them reassurance in this technologically complex time and sensitive arena. We ensure that capacity is always available in our production plans to allow us to react quickly to customer demand in this innovative and fast moving industry.

Aerospace

From the design and manufacture of large aircraft wings to the creation of advanced system landing gear, Drurys engineering is positioned well to service the UK aerospace sector. We have a unique relationship with Tier 1 suppliers who call upon Drurys’ engineering supply chain expertise to deliver a world class service to their clients. We pride ourselves on ensuring that we are a value added link in the supply chain and are flexible in our approach to match our customers’ service requirement.



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Capabilities

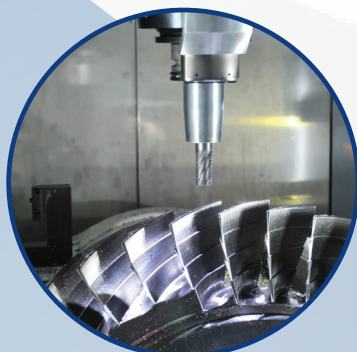


At Drurys Engineering we are committed to ensuring we provide a service that is second to none. All of our machining is undertaken in-house, and our relationships with quality second tier suppliers means we are able to undertake specialist operations such as fine-limit grinding, spark erosion, honing or deep-hole drilling. The same applies to surface treatments, where your requirements for anodising, painting, polishing and many specialist finishes can be accommodated. Our capabilities are listed below:



Turning

From large batches to fine tolerance 1 off parts, our turning section is flexible enough to meet the needs of our customers. Our experienced machinists use turning centres to produce the sort of quality components synonymous with Drurys Engineering. We use state of the art machinery including live tooling and twin spindles to complete turned and milled parts in a single cycle. Our speed and accuracy makes us highly efficient and cost effective.



Milling

Utilising the latest machinery our milling section combines the engineering and programming skills of our machinists with the latest cutting tool technology. The results are machined components of the highest quality, from small engine fittings to large enclosures. Our 4 and 5 axis capabilities ensure that our clients have few limiting factors to consider in the design phase of their products.

Wire EDM

We utilise a versatile form of Electrical Discharge Machining within the business. This allows us to produce different machining paths from top to bottom of components allowing for draft angles and the formation of complex geometry's in ultra-hard metals.

Assembly Room

Our dedicated assembly facility ensures that we can deliver a complete range of value added components. Kits of parts both manufactured and purchased can be supplied with a variety of packaging options to suit the application. Electro-mechanical assemblies can be supplied complete and tested to your specification, with both simple and complex assembly work undertaken.

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Production Engineering CAD / CAM

Solid works 3D CAD software is utilised to allow us to perform powerful modelling and aid in the visualisation of complex assembly design. Cost evaluation can be undertaken quickly to place control at our customers' fingertips as early as possible in the development process.

Mastercam and Pro/Engineer wildfire allows for the generation of complex 3D tool paths for machining custom shapes e.g. aerodynamic wing profiles. This can be accomplished quickly, with the minimum of effort. The software also allows us to integrate our customers' 3D models, which are used when working on prototypes or urgent work, and can remove the burden of producing a full technical drawing prior to commencement of manufacture.



“Our greatest asset is our employees - a highly trained, well motivated team that work with integrity for the best interest of our customers”

Standards

“Our continuous commitment to quality and investment ensures that we stay up to date with the latest state of the art manufacturing technology”

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Supply Chain

We pride ourselves on our full “One Stop Shop” philosophy for all of your manufacturing needs. This is achieved through a combination of bringing services in house as well as utilising our extensive supply chain partnership program.

All of our partners are approved to our high standards as we fully understand the need for excellent business performance to give you piece of mind. This ensures we never compromise our ability to provide our customers with the highest level of service and expertise.

- Wet Processes
- Apticote Chromate / Alochrom, Zinc Plating, Tartaric Sulphuric, Painting, Phosphating, Anodising, Chromating, Shot Peen, Chromic Anodising, Electroless Nickel Plating, Passivate, Etching, Molykote, Tin Plating, Gold Plating, Nickel Acetate
- Test NDT
- Die Penetrant / FPI, MPI, Radiography
- Heat Treatment
- Hardening, Stress relieving, Annealing, Solution Treat, Induction Hardening
- Other
- Electron Beam Welding, Gear Grinding, Deep Hole Drilling

Materials Experience

We have over 20 years of experience working with a wide range of materials. Full material traceability is assured through our production control system and bonded store area. Some of the materials we have worked with include:

- Aluminium, Alloys
- Steels- EN19, EN1A, EN32, EN24, EN24T, 4140, Jethete, Stainless, HYKRO, CMV, Super CMV
- Copper
- Brass
- Toughmet
- Bronze
- Tungsten
- Berilium
- Cast Iron
- Plastics
- Nylon 66, PTFE, Glass Filled Nylon, Delrin, Peak.
- Titanium & Titanium alloys
- Ti6/4
- Exotic alloys
- Hastelloy, Inconel, Waspaloy, Incoloy, Nimonic, Super Duplex, Monel

Quality Standards

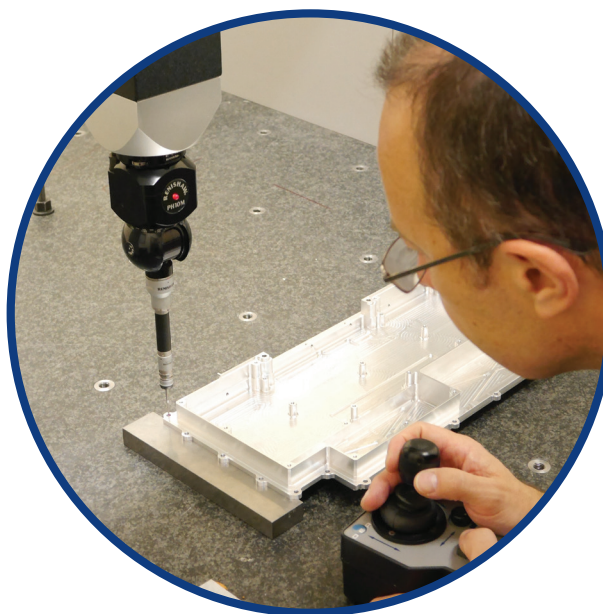
We are certified to the highest quality standards for manufacturing within all industry sectors including aerospace.

We are approved by B.S.I. to:

AS9100 / BS EN 9100:2009

JIS Q 9100:2009, ISO 9001:2008 and assessed in accordance with:

EN 9204 – 001:2013, holding certificate number FM 21920.



Continuous Improvement

We recognise that continuous improvement is necessary to guarantee quality and value for money, and to this aim, we operate, TPM, LEAN and 6 SIGMA methodologies to underpin our ongoing commitment to supplying the highest quality products and services to our customers.

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Automated Inspection

Our customers expect the highest level of quality from Drurys. For our staff and partners in the supply chain, quality isn't just about the need for components to meet the standard, it's about a quality culture and the drive for excellence from conception to delivery. Drurys Engineering has an extensive range of CMM inspection machines to measure small to medium complex parts.



Facilities Equipment



5-Axis

- 1 off Bridgeport XR300 5 axis 410 x 610 x 500 (mm)
- 1 off Matsuura MX520 5 axis 610 x 540 x 400 (mm)
- 1 off Quaser UX500 5 axis 712 x 508 x 515 (mm)
- Erowa 80 pallet compact robot.

3/4-Axis

- 2 off Bridgeport 760 XP3 4 axis VMC 760 x 610 x 500 (mm)
- 5 off Bridgeport XR610 4 axis VMC 610 x 460 x 500 (mm)
- 2 off Doosan D750M 4 axis VMC 2160 x 760 x 750 (mm)
- 1 off Quaser MV204 CPL 3 axis VMC 1500 x 700 x 500 (mm)
- 1 off Bridgeport 610XP3 3 axis VMC 610 x 460 x 500 (mm)
- 1 off Quaser MV184E 3 axis VMC 1000 x 610 x 500 (mm)

Twin-Spindle Live Tooling

- 2 off Nakamura WT150 IIF Turning Centre. Capacity 65mm bar DIA
- 1 off Nakamura WY150 IIF Turning Centre. Capacity 65mm bar DIA

Wire EDM + Spark

- 3 off Mitsubishi MV1200R EDM 400 X 300 x 220 (mm)
- 1 off Mitsubishi SG12S Spark

Miscellaneous

- 1 off Technifor CN200 – CNC part marking
- 1 off EZSET 350 – CNC Tool Set

Inspection

- 1 off ZEISS CMM with PC-DMIS software 1200 x 800 x 500 (mm)
- 1 off Eley CMM Metrology Millennium programmable
 - 1 off Mitutoyo Linear 600 digital height gauge
 - 1 off 6x3 ft granite surface
 - 1 off 4x3 ft granite surface (factory inspection)
 - 1 off Ash INSPEX11 Digital Microscope
 - 1 off Electronic shadowgraph
 - 1 off Mitutoyo SJ 210 surface roughness tester
- Plus a comprehensive range of general inspection equipment

SERVICE THROUGH MANUFACTURING EXCELLENCE

With a highly equipped manufacturing base, Drurys Engineering is perfectly placed to provide an immediate response to match every customer's requirements. Our team are technically trained to offer advice on all our products in the most demanding of applications across all of our industry sectors.



Head Office & Manufacturing

Drurys Engineering Ltd.,
21 Knowl Piece,
Wilbury Way
Hitchin,
Herts, SG4 0TY
T: +44 (0) 1462 420123
F: +44 (0) 1462 420124
W: www.drurys.co.uk



@DrurysEng_



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