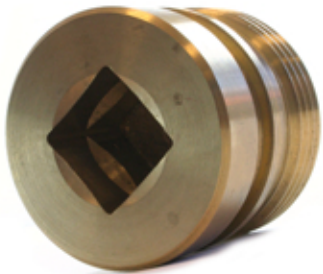


CNC Machining



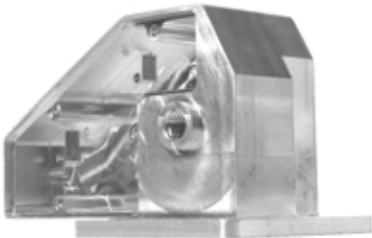
Technology at work for you



Goudsmit UK is part of the Goudsmit Group of companies based in Eindhoven, the Netherlands. Founded in 1960 the group manufactures and supplies a range of products from components through to capital equipment. The group has subsidiary companies across Europe and into Asia.

Goudsmit UK was founded in 1998 and specialises in the design, industrialisation and manufacture of custom industrial components. The company can also design and sub-contract manufacture entire products and offers a comprehensive and global logistics service.

TS16949 and ISO9001 qualified the company works in a wide range of market segments including Automotive, Oil and Gas, Aerospace, Medical Devices and Green Technology.



Logistics

Designing, industrialising and manufacturing components are only some of the issues which face us and our clients. Just as important is getting the correct number of components to the correct place at the right time. To do this we have a refined and complex logistics network which operates throughout the globe. Key capabilities of this network are:

- Demand planning system to predict and manufacture client requirements
- Frame contracts with multiple drops spanning up to 2 years
- Warehouses in Holland / USA / UK to allow ex stock delivery
- Buffer stock held locally to offer 3 day delivery
- Consignment stock capabilities
- JIT delivery for automotive volumes
- KANBAN delivery for regular use items
- Global tracking system to monitor orders and parts through production and shipping

We have adapted our logistics network to match the dispersed and global nature of our clients operations and can offer whatever service our clients require.

For further information please refer to our logistics brochure.

Quality Assurance

What our clients want are parts which are correct first time and every time. We endeavour to provide this and our QA aim is zero defects on deliveries and continual improvement in all our processes. In order to achieve this we have become TS16949 and ISO9001 certified and are constantly tightening our processes and QA controls to better control our final product. A short summary of the QA tools and documentation we use and can provide is shown below:

- Samples with ISIR submission
- Design and Process FMEA
- PPAP on pre-production parts
- APQP
- Inspection reports with all deliveries
- Hardness testing
- Tensile strength tests
- Composition testing
- Environmental testing

We are happy to provide any custom QA structure our clients require right up to zero defect by measurement.

For further information please refer to our Quality Assurance brochure.



CNC Turned Parts



ADDED VALUE

Once our machines have been programmed and the cycle times optimised generally the components can be produced repeatably and accurately. However, often components will need a range of finishes or modifications which our clients do not want to have to sub-contract themselves. A far from exhaustive list of added value operations we can perform are as follows:

- Rumbling
- Polishing
- Bead blasting
- Sand blasting
- Electroplating
- Anodising
- Passivating
- Powder coating
- Painting
- Assembly

TESTING

We follow the adage that if you cannot measure it you cannot make it. We therefore have multiple automated Mitutoyo CMM machines plus several different computer based vision systems in our metrology lab. Other equipment includes hardness and tensile strength testing, composition testing and equipment for geometric tolerances etc.

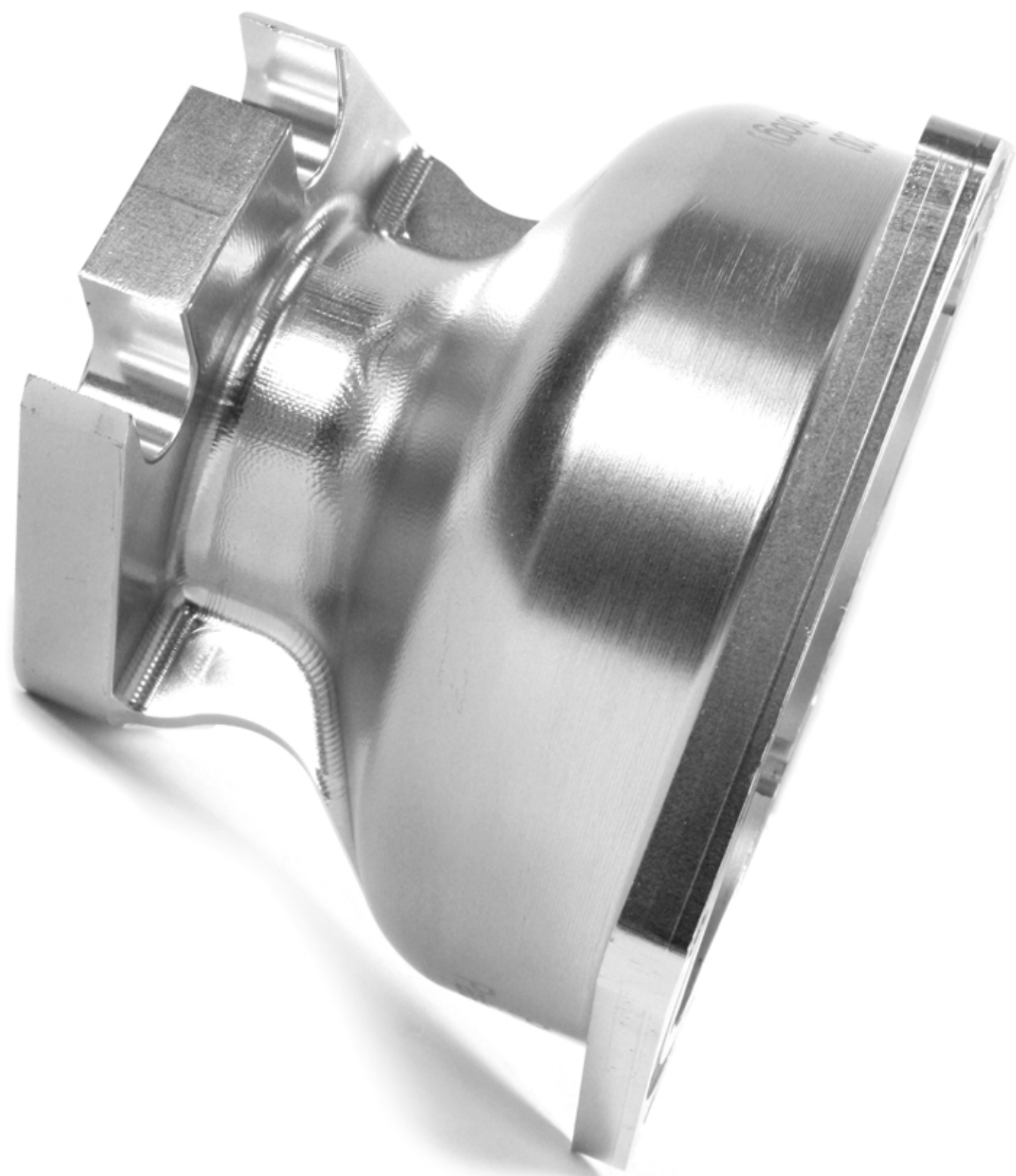
CNC TURNED PARTS

CNC turning is the industry standard method of making reasonable numbers of components quickly, repetitively and cost effectively. Modern CNC machines are both accurate and quick and can remove material stock at incomparable rates compared to the past. The high level of control of non-linear forms has allowed designers to become more imaginative with their parts and to move away from more traditional methods of manufacture such as casting, to CNC turning. Goudsmit UK has been supplying CNC turned components for over 10 years now and has built up a level of expertise in the industry specialising in the supply of mid to high volumes of components to industries as diverse as Automotive, Medical and Oil and Gas.

CAPABILITIES

Goudsmit UK can turn from a diameter of 4mm up to a diameter of 360mm with varying degrees of precision depending on the part, material and form. Typical machines are single spindle, single turret machines each carrying 8 - 12 tools. All our machines have increased coolant capacity, chip conveyors and parts catchers. Although not leading edge, these machines are excellent for the typical parts we make and the typical runs we make which are around 5 - 15K components.





CNC Milled Parts



CNC MILLED PARTS

Like CNC turning, CNC milling is the industry standard method of making reasonable numbers of components quickly, repetitively and cost effectively. Modern CNC mills are both accurate and quick and can remove material stock at incomparable rates compared to the past. The high level of control of non-linear forms has allowed designers to become more imaginative with their parts and to move away from more traditional methods of manufacture such as casting, to CNC milling. Goudsmit UK has been supplying CNC milled components for over 10 years now and has built up a level of expertise in the industry, specialising in the supply of mid to high volumes of components to industries as diverse as Medical, Automotive and Oil and Gas.

CAPABILITIES

Goudsmit UK can mill parts up to approximately 1m x 1m on our largest bed machine. Most of our machines are 3 axis with a range of bed sizes and spindle speeds. 4 and 5 axis components are also supplied if in sufficient volume. In terms of material the usual metals such as aluminium, mild steel, stainless steel and brass are used as feedstock as well as more specialised and harder materials which can be machined on request. Over the coming years the company plans to move towards 5 axis machining and the use of high speed machining paths.

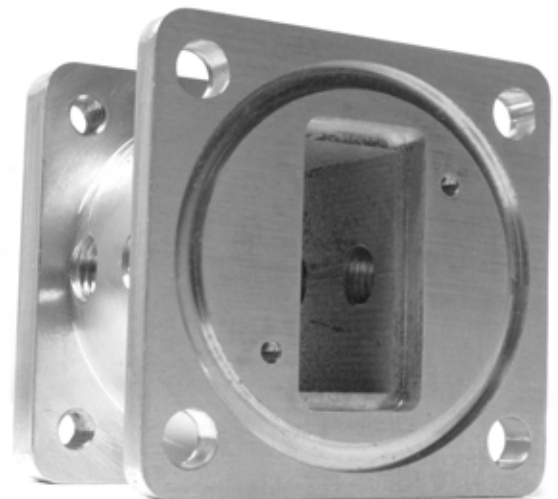
ADDED VALUE

In order to minimise machine cycle times and tool wear the company has begun to use Computer Aided Manufacturing to program our machines. Code can be trialled without tying up equipment and machine paths perfected prior to a job going into the production unit. As well as increased sophistication at the front end we can also offer an extensive range of finishes to the parts post machining. Examples of these finishes are:

- Rubbling
- Polishing
- Bead blasting
- Sand blasting
- Electroplating
- Anodising
- Passivating
- Powder coating
- Painting
- Assembly

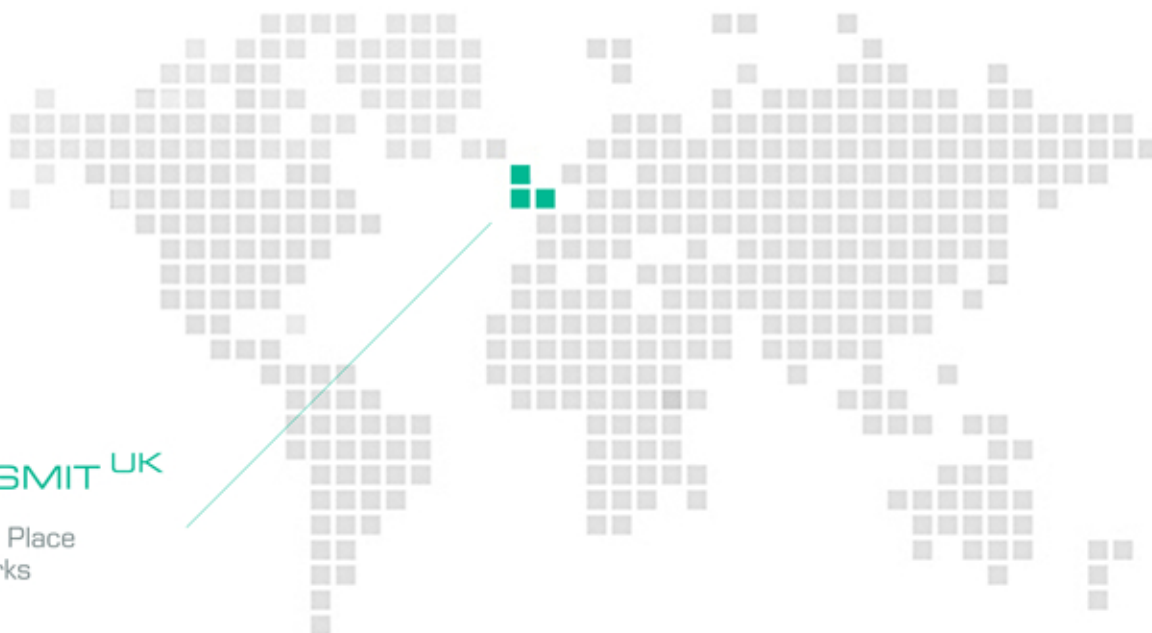
TESTING

We follow the adage that if you cannot measure it you cannot make it. We therefore have multiple automated Mitutoyo CMM machines plus several different computer based vision systems in our metrology lab. Other equipment includes hardness and tensile strength testing, composition testing and equipment for geometric tolerances etc.



Worldwide Service

- Goudsmit UK is part of the Goudsmit Group of companies. With two production facilities in China, one in the Czech Republic and two in Holland, the company has the reach to supply from Asia to Europe and on into the USA.



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