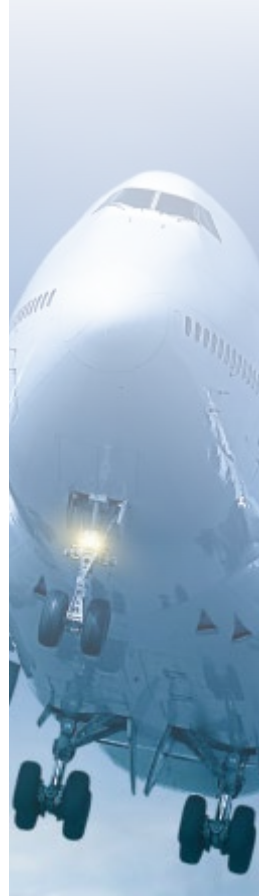


Arnold Wragg

The Brochure





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The Company



Arnold Wragg Ltd is the accepted name for metallurgical and engineering excellence in special fastener production

Arnold Wragg Ltd is an AS9100 approved company based in Sheffield with over 50 years of experience as a specialist manufacturer, precision made from high performance materials, ranging from stainless and alloy steels to bronzes, nickel, aluminium and titanium based alloys. Our products are to be found in high technology plant and equipment in areas from advanced weaponry to nuclear power generation, oil and gas production.

Our unique experience in the supply of components to meet these exacting requirements has led to the approval of our products by such organisations as the UK Atomic Energy Authority, British Nuclear Fuels, British Gas, The Ministry of Defence to DEF-STAN 05-24, The British Standards institute to BS 5750, BAE approvals and many other manufacturing companies and inspecting authorities.

There is scarcely an area in technology and industry where Arnold Wragg products are not to be found.





The Business



Quality... On time, first time.

Arnold Wragg is an AS9100 accredited company who manufacture for Aerospace, MOD, Nuclear, Marine etc... However we are a machine shop and with that we are extremely proactive to selling machining time to our highly valued and sort after fellow general machining and subcontracting companies.

If you are looking to subcontract your machining or require assistance with your customer base please be assured that by placing or forwarding the requirements onto ourselves inviting us into your supply chain your order will be met with the highest respect, quality and service ensuring you, customer receives their order in full; on time, first time.

Arnold Wragg is a company which has been providing machined components to the industry for several years.

With an array of approvals for SBAC and AGS series products and a wealth of knowledge on: machining, NDT, cadmium plating and favoured materials for this sector, Arnold Wragg prides itself in being a supportive and knowledgeable part of the Aerospace supply chain.

Arnold Wragg has the capabilities, knowledge and commitment to fulfill any order of any size to the upmost quality, from small scale, to a large orders, Wragg's have it covered.



Our Line-Card covers part ranges such as A series, AGS, AS, SP, STD, SL, MDS, DDS, Din and many more

Manufacturing for Aerospace, MOD, Medical, Nuclear, Marine, Oil and Gas, UAV and Rail obtaining the following certifications: AS 9100D (technically equivalent to EN 9100:2018 and JISQ 9100:2016) This certification has been performed in accordance with the requirements of EN 9104-001:2013 Lloyd's Register Quality Assurance is accredited under the IAQG ICOP scheme as well as BAE Air systems approval and GKN Aerospace Service - Cowes

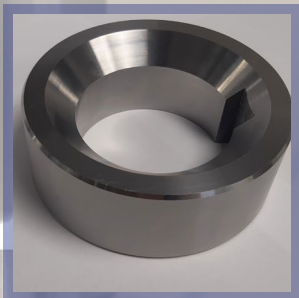
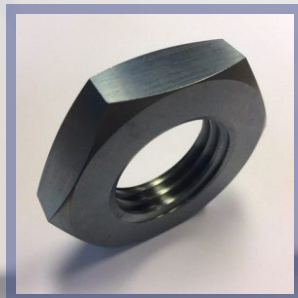
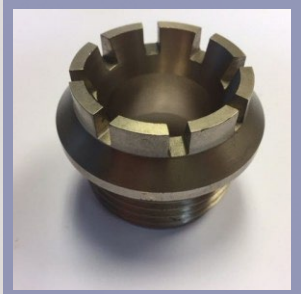
- AS9100 revision D certificate
- BAE Systems approval letter
- TSSC 95 IS 17
- GKN approval certificate
- Scope of approval letter GKN SQA

Flexibility of manufacturing capacity is the cornerstone of Arnold Wragg's service, facilitating the production of fasteners in runs of up to several thousand, but also catering for the small quantity maintenance and repair requirements for machinery and equipment of older and obsolescent design.

The manufacturing process employed includes CNC turning and 5 axis Milling to Thread Rolling and Cold Forming with substantial stocks of steels and alloys always to hand. Arnold Wragg can speedily deliver from a single component to a batch run of many thousands all to the highest quality standards on time first time.

We like our products to speak for themselves...

The Product



The Product

Aerospace Locking Nuts

Arnold Wragg is one of the select few in The United Kingdom who can produce Aerospace Locking Nuts (AS9100) - a unique and highly sought after part within the Aerospace industry.

As with all parts Arnold Wragg can produce, Aerospace Locking nuts may be ordered in one off batches, or even orders of over 10,000.



These components are difficult parts to manufacture and require knowledge, resources and expertise to create a very exacting part with batch release test that has to be externally witnessed. The standard requires that the nut is made by a sealed route process and Arnold Wragg Ltd is one of a very few manufactures with the quality systems and AS9100 culture to ensure that every batch is made in the approved way.

The technical challenges that had to be overcome were the low (-75 Degrees Celsius) and high (200 Degrees Celsius) temperature tests and the recording of the torque values over the 36 tests of six different test types that each component requires. A computerised torque measuring and recording system was designed and built specifically to ensure consistency in the testing process. This means that every test is now recorded as a graphical output, which considerably increases clarity over the previous single figure records.



Inspection

As Arnold Wragg is a proud AS9100 accredited company in order to maintain our high quality standards all incoming materials are subject to a full metallurgical and property testing plan before being accepted from the mill or source.

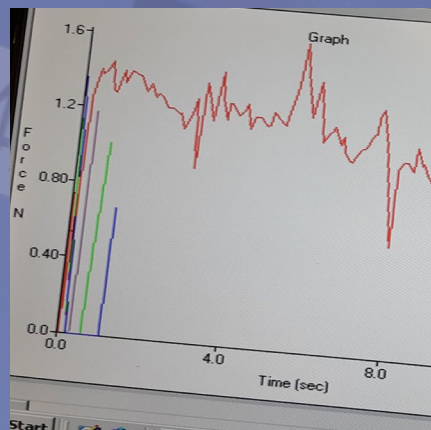
In addition to these exacting requirements full inspection and verification is continuous during and on completion of manufacture, ensuring that our customers receive products of the highest integrity and quality.

Arnold Wragg has a wide range of inspection and testing facilities including dimensional control, torque, hardness and metallurgical. Full documentation COC packs including First Article Inspection Reporting (FAIR)



Inspection process complying with AS9100 standards and demands and include

- Faro arm inspection reporting
- Mechanical testing, certification of conformity COC
- Stage inspection / verification
- Final inspection
- Mill certification
- Metallurgy report
- Independent witnessing
- First article inspection reporting (FAIR)



All of our stock is checked when it is booked in, and when it's booked out, ensuring quality parts will always reach you - on time.

'The Shop' or 'Stockists' is a great place to pick up a particular part that you might need on a short notice.

Occasionally, more parts are produced for a job than are needed - in these events, the extra parts are kept in storage with their matching Certificates of Quality and documentation and can be sold to those who require parts immediately, for a quick repair or to help hurry along an order.

All parts have been inspected by our quality and inspection department, and have been cleared to the same standard as the rest of our product range.

Stock levels will be in flux daily, however, so the best time to order is immediately.

Arnold Wragg Ltd has a library of over 330,000 part codes loaded into it, constructed with procurement ease in mind.

Search based on part code demand, find a match, add a value and click request for quotation. One of our sales members will acknowledge your enquiry and get back in touch with a price and lead time.

Please note the Arnold Wragg Ltd part code library is not limited to the part codes shown and represents a selection of capabilities only

If the part code you are looking for does not appear on our system simply contact our team and we will search for the relevant details and again get back in touch with a price and lead time

Order before mid-day for next-day delivery.

The Shop

Investing in People

Arnold Wragg prides itself, not only on its quality product, but also its quality workforce.

Arnold Wragg has been partnered with The Sheffield College for numerous years - helping apprentices realise their full potential.

All taking place under the guidance of Managing Director; Paul Brunton, along-side his fellow managers: David Smith, Liam Carter and Glenn Howard.

With a strong background in statistical analysis, six-sigma and lean manufacturing, under Paul's stewardship Arnold Wragg has won a Queens Award and an employer of the year award for its apprentice programs. Paul and his team have taken the business back to basics with a strong emphasis on apprenticeships.

Paul says: "Due to the high demand of aerospace fasteners, we need a highly-skilled work force and this involves sharing our knowledge with a new generation. We are currently working hand in hand with the local Sheffield City College, which has an intake of apprentices readily available to suit our demand. The college automatically enrolls student's year around, taking learners from all different backgrounds with a variety of experiences. From this, we contact the college and the tutors have a full tour of our factory, we show them our apprentice structure, the working environment, the trainers and the various sections they will get involved with and current job vacancies we are looking to get them involved with."



Arnold Wragg Ltd is looking for long term partnerships and in order to achieve the best working relationships we believe a little shared knowledge can go a long way.

Which is why Arnold Wragg offers training days, these days consist of a trip out to visit our manufacturing facility in Sheffield where you can meet the sales team and management as these are the people who are answering your emails and queries. Followed by an induction to Arnold Wragg PowerPoint on first level safety critical fasteners including:

- Part codes explanations
- Capabilities
- Optimum purchasing batch sizes
- Kan ban delivery systems
- Value adding and none value adding activities
- How we comprise your quotation
- A tour around the facility and manufacturing processes
- A demonstration on torque testing at various temperatures and conditions
- A little Q and A



Of course it goes without saying that you and your team will be well fed and watered throughout the day and we hope to have got to know a little more about your needs and have shown you a little more of the manufacture of your orders

This service is free of charge and available to any of our clients We are flexible to as to dates and times so if this is something you may be interested in please don't hesitate to contact our sales team

The Manufacturing

The first choice in secure fastener manufacturing.

Machined on site to aerospace standards.

Capabilities of any

Threaded Parts, Nuts,

Washers, Seals and

Multi-axis Milling

**Come and
Join us**



Contact us



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