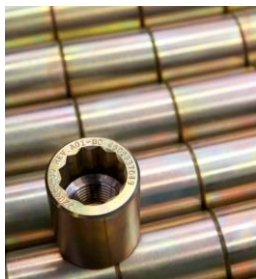
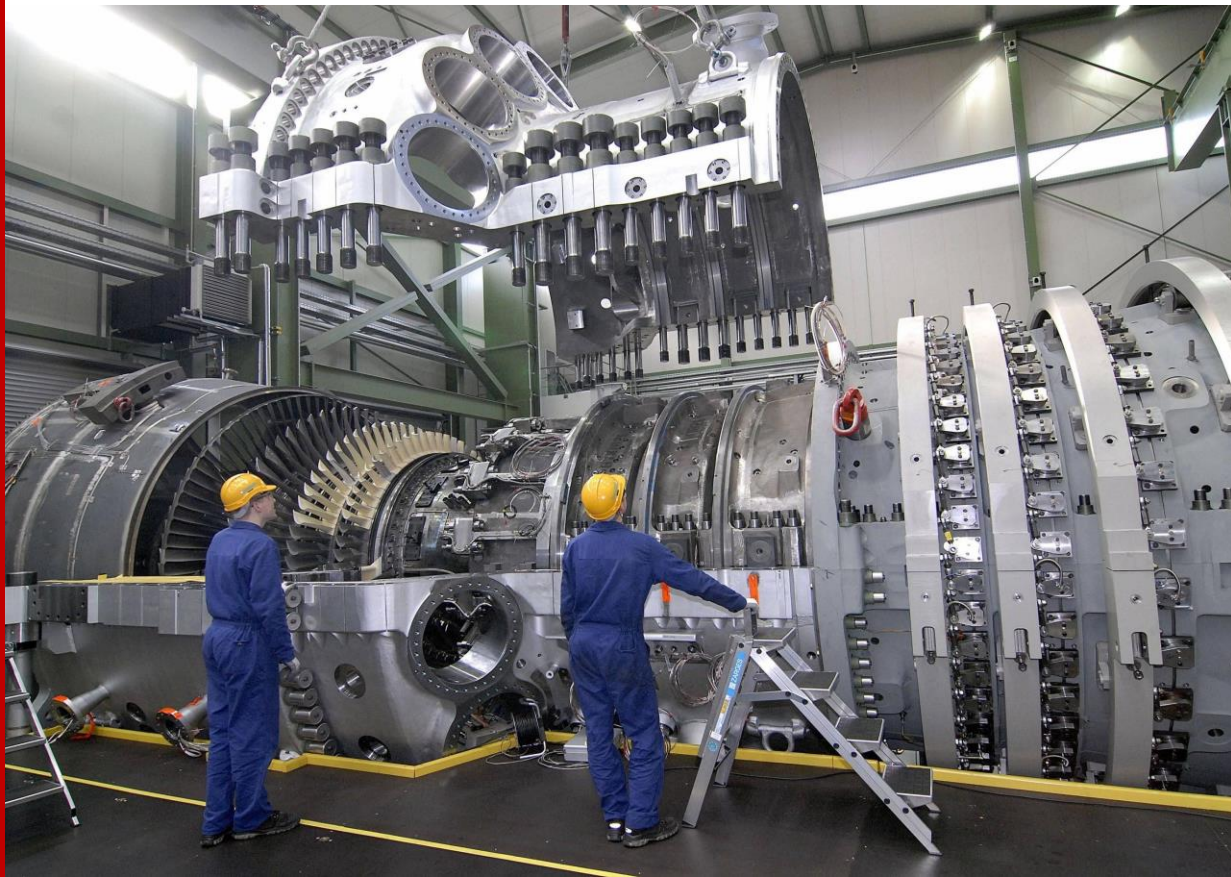
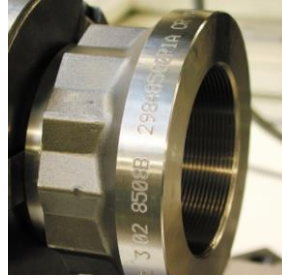


POWER GENERATION



Cooper Turner Beck
FASTENERS FOR SAFETY CRITICAL APPLICATIONS



Manufacturing Special Bolting and CNC Machined Components



Established over 90 years ago, we are manufacturers of Special Bolting and CNC Machined Components for use in Quality Critical applications.

We manufacture bespoke components to recognised standards such as BS, DIN, ISO, ANSI, or to customer specific requirements by means of drawings or samples.

We manufacture to order, ranging from one-off, to small and medium batch quantities.

Our scope of supply covers all materials, and we specialise in components for use in Heat Resistant, Pressure Resistant or Corrosion Resistant applications.

Our mission is simple: to supply the very best quality products at competitive prices, always being flexible and agile, but more importantly being easy to do business with.

Fasteners for safety critical applications.

...enviable reputation

MANUFACTURING

We are able to offer a wide range of production options to suit your unique requirements in terms of quantity, type of product and material. Our fully equipped machine shop combines both manual and CNC equipment including:

- CNC Multi Axis Lathes
- CNC Sliding Head Machines
- 3-6" Diameter Thread Rolling
- CNC Machining Centres
- CNC Polygon Machining Centre
- Centreless Grinding

Quantity: We manufacture to order, ranging from one-offs, to small and medium batch quantities.

Size Range: We are able to manufacture components ranging in diameter from M2 - M200 (and imperial equivalents), and we have supplied lengths in excess of 4 metres.

Hot Forging: We can manufacture headed components (Hex Bolts, Socket Head Capscrews, etc.) in all grades of alloys. We can currently cater for components up to 75mm diameter.

...unrivalled performance

SERVICE AND DELIVERY

We have a long proven track record in the supply of bespoke components for a diverse customer base.

Whatever the industry, what ever the demands, we are able to satisfy your requirements in terms of the level of service offered.

As a service orientated company, we strive to offer quality products and flexible lead times to our customers.

...excellent quality

PRODUCTION

We manufacture bespoke Special Bolting and CNC Machined Components to recognised standards such as BS, DIN, ISO, and ANSI or to customer specific requirements by means of drawings or samples.

Thread forms:

We are able to produce all Metric and Imperial thread forms.

Bolts & Screws:

Hexagon, 12 Point, Socket, Slotted, Square.

Studs:

Double ended, Waisted, Collar, Studbolts.

Nuts:

Hexagon, 12 Point, Capnuts, Round, Slotted, Barrel.

Washers:

Round, Square, Spherical, Spring, Taper, Tab.

Machined Parts:

Clevis Blocks & Pins, Tie Rods, Shafts, Spindles.





...demanding environments

TESTING AND CERTIFICATION

All products can be supplied with Testing and Certification to suit your specifications and requirements.

We have a long history of working with UKAS approved Test Houses to Certify requirements for either Destructive or Non-Destructive Testing when required.

Testing can include Chemical Analysis, Mechanical Test, Ultrasonic Examination, Magnetic Particle Inspection, Dye Penetrant, Shear Testing, Stress Corrosion and Salt Spray Testing.

Products can be released with Certification against your Testing and Inspection requirements. Where specified we can offer Third Party Witness by inspectorates such as Lloyds, DNV and TUV.

Certification can include Certificate of Conformity, 3.1.A, 3.1.B, 3.1.C and Original Mill Certification.

...the highest standards

QUALITY ASSURANCE

We operate a formal Quality System accredited by LRQA to BS.EN.ISO 9001-2015, however, we are able to integrate customer specific standards and Quality System requirements to ensure continuity with your demands.

Our Quality System lays down mandatory procedures and controls for all elements of our supply from full traceability on material purchase, to order completion, and is further complimented by our on-site XRF spectrometry of all incoming material and finished products.

Our fully equipped inspection facility is complimented by our Co-ordinate Measuring Machine which allows us to perform intricate inspection operations, enabling us to produce detailed dimensional reports.

As most of our products are used in Quality Critical applications it is imperative that we supply a high integrity product to our customers, therefore Quality Assurance is an integral part of every process of our supply, and we continue to invest heavily in this field to ensure total customer satisfaction.



MACHINED COMPONENTS

A selection of some of the more specialist and precision components that we manufacture, which are not typical threaded fasteners. They represent requirements from all sections of industry, and materials shown include Inconel, Nimonic and Hastelloy.



STEAM TURBINE COMPONENTS

A selection of bespoke special bolting for use in Steam Turbine applications. Examples shown: Stud, Hexagon Flange Bolt, Cap Nut and Slotted Nut in materials grades Durehete 1055 and Nimonic 80A.



GAS TURBINE COMPONENTS

A selection of bespoke special bolting for use in Gas Turbine applications. Examples shown: 12 Point Bolt and 12 Point Nut in 422 Stainless Steel, and Body Bound Stud, Cap Nut, Hexagon Bolt and Socket Head Cap Screw in B16 material.



PIPELINE & PROCESS EQUIPMENT COMPONENTS

A selection of bespoke components typically manufactured for our OEM customers within the Pipeline and Process industries. Products shown include Hexagon Bolt, Hexagon Nut, Socket Head Cap Screw and Double Ended Stud.





RAW MATERIALS

We have many years experience in the manufacture of bespoke components in a wide range of materials. Our range of strategic bar stock gives us the ability to offer a rapid delivery response time in order to meet customer requirements. Our scope of supply includes, but is not limited to, the grades listed below.

COMMERCIAL STAINLESS STEEL

| | | | | | |
|-----|-----|------|-----|-----|------|
| 303 | 304 | 304L | 310 | 316 | 316L |
| 321 | 347 | 410 | 416 | 420 | 431 |

COMMERCIAL CARBON & ALLOY STEEL

| | | |
|---------------|---------------|---------------|
| EN8 (080M40) | EN9 (070M55) | EN16 (605M36) |
| EN19 (708M40) | EN24 (817M40) | EN26 (826M40) |

PETROCHEMICAL MATERIALS

| | | |
|------|------------------------|-----------|
| B5 | B6 | B7, B7M |
| B8 | B8M, B8M CLASS 2, B8MX | B8T, B8TX |
| B8C | B8R, B8S | B16 |
| B17B | L7, L7M | L43 |

POWER GENERATION MATERIALS

| | | |
|-------------------------|-----------------------|---------------------------|
| Durete 900/950/1055 | Nimonic 80A/90 | Jethete X19 |
| 21CrMoV57 (1.7709) | 24CrMo5 (1.7258) | XBCrNiMoBNB16-16 (1.4986) |
| X21CrMoVbN11-1 (1.4913) | X22CrMoV12-1 (1.4923) | AISI 422 (B4B) |

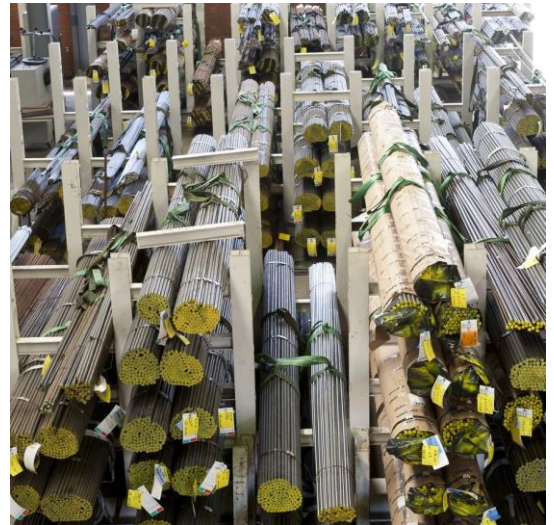
NICKEL ALLOY & DUPLEX STEELS

| | | |
|-------------------------|----------------------------|----------------------------|
| UNS S31803 | UNS S32550 (Ferralium 255) | UNS S32760 (Zeron 100) |
| UNS S31254 (254SMO) | UNS S32750 | 17/4 PH |
| FV520B | 904L | ASTM A453 Grade 660 A&B |
| Nitronic 50/60 | Monel 400/K500 | Inconel 600, 601, 625, 718 |
| Incoloy 800, 800HT, 925 | Hastelloy B3, C22, C276, X | Sanicro 28 |

NON-FERROUS

| | | |
|------------------|--------------------------|-----------------|
| Aluminium Bronze | Aluminium Silicon Bronze | Phosphor Bronze |
| Brass | Copper | Marinel |
| Nibron | Hiduron | Cunifer |

All manufactured components can be supplied with full material certification, to ensure full traceability of components throughout the production and certification processes.



We are also able to supply products with additional processes such as Surface Coating and Heat Treatment, including but not limited to:

SURFACE COATING

| | |
|--------------------|---------------|
| Xylan / PTFE | Zinc Plated |
| Hot Dip Galvanized | Phosphated |
| Molycoated | Sherardized |
| Silver Plated | Nickel Plated |
| NI-Clad Plated | Copper Plated |

HEAT TREATMENTS

| | |
|-----------------------|------------------|
| Hardening & Tempering | Plasma Nitriding |
| Solution Annealing | Age Hardening |
| Nitro Carburising | Normalising |



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