

BROOKS forgings **BOLTING SOLUTIONS**

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BRITISH MADE

BROOKS forgings
BOLTING SOLUTIONS

Manufacturer of Special and Standard Fasteners



Offshore & Buoyancy



Petrochemical



Power Generation



Naval & Marine



Defence

Brooks Forgings Ltd, established in 1960, is one of the UK's leading manufacturers of Forged and Machined fastener components. With our extensive in-house manufacturing capabilities we are able to produce standards and specials to suit customer specific requirements.

16 Hot Forging Cells 14 CNC Machines

Forging Capacity

At the heart of our manufacturing facility are 16 forging cells, each utilising the latest heating technology. Capable of forging from 10mm diameter up to 100mm diameter and lengths up to 6000mm.

In-house CAD/CAM and tool making capabilities enable us to manufacture specials and standard head forms on short lead times.



Product Range

Below are just a small selection of our products.
Please contact us with your requirements.

- Hexagon Bolts
- Hexagon Nuts
- Bi-Hexagon Bolts
- Bi-Hexagon Nuts
- Socket Capscrews
- Socket Set Screws
- Square Head Bolts
- Countersunk Screws
- Engineer Studs
- Studbolts
- Eye Bolts
- Cup Square Bolts
- U & J Bolts
- Hammerhead Bolts
- Shoulder Bolts
- Plough Bolts
- Eye Nuts
- Lock Nuts
- Lock Washers
- Washers

Forged Lengths up to 6000MM

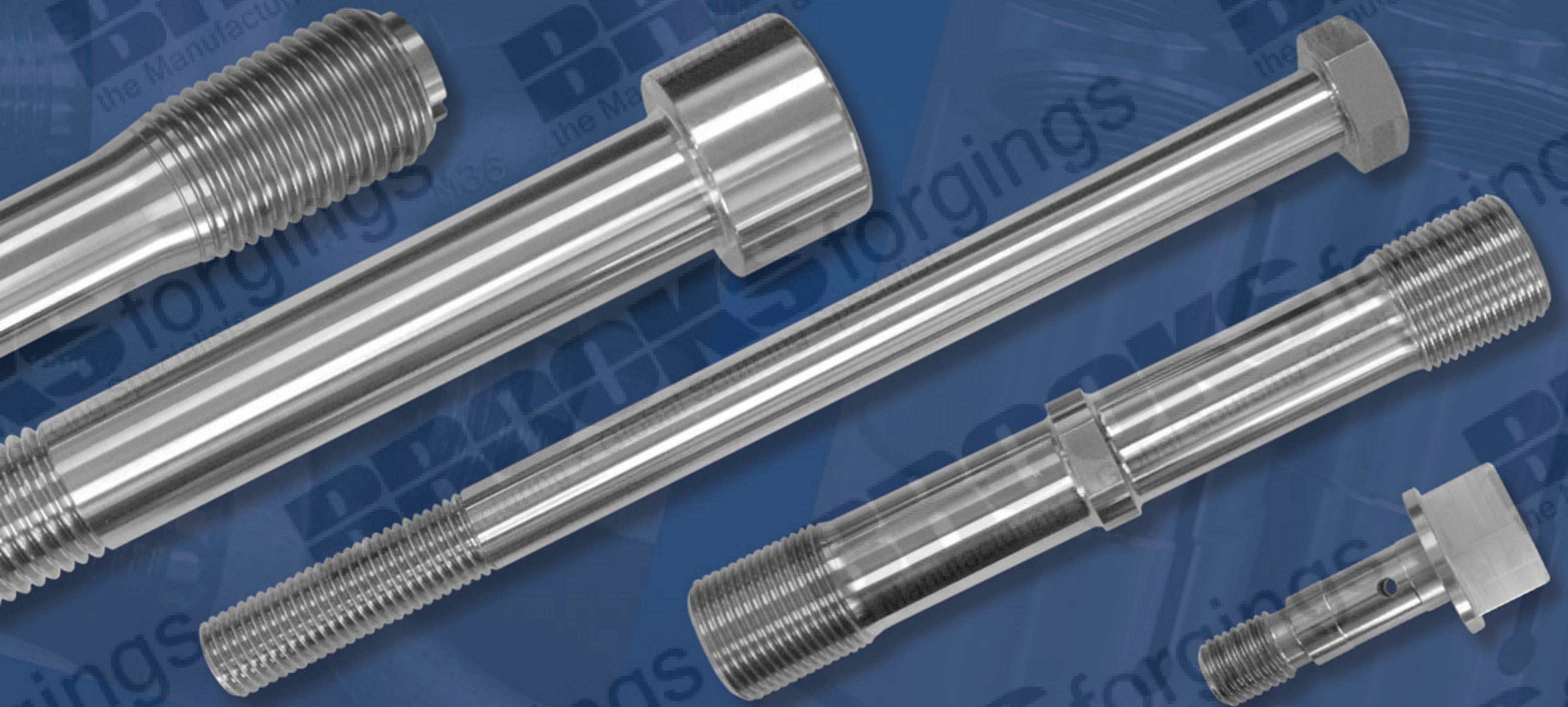
Thread Sizes: M6 up to M100

Machining Capacity

Our dedicated machining department specialises in the production of special and standard fasteners. We manufacture to national and international standards, customer drawings and component samples by reverse engineering.

A comprehensive CNC machining capacity gives us the ability to deal with low and high volume requirements and provides our customers' with consistent quality and accuracy.





Thread Forms: Metric, UNF, UNC, BSF & BSW

BS EN ISO 9001

Quality Control

Our reputation for quality is underpinned by operating to BS EN ISO 9001, throughout all stages of production.

Component traceability is ensured by individual cast identification supported by all levels of certification. We offer Certificates of Conformity through to BS EN 10204 2.1, 2.2, 3.1 and independent inspection to BS EN 10204 3.2.

Quality plans, first article and dimensional inspection reports are available upon request.



Approved to
BS EN ISO 9001

FPAL Registered
Nº 10052533





250 Tonnes of Raw Material Stock

94,000 SQ FT Facility

Carbon & Alloy

- | | |
|---------------------|---------------------|
| BS 970 | A193 B7 |
| 080M40 | A193 B7M |
| 605M36 | A193 B16 |
| 708M40 | A193 B16A |
| 709M40 | A320 L7 |
| 817M40 | A320 L7M |
| 826M40 | A320 L43 |
| 2S97 | |
| 2S98 | DEF-STAN 07-261 PT4 |
| 4S99 | DEF-STAN 02-862 PT2 |
| S154 | |
| DUREHETE 900 (T21) | NES 862 PT2 |
| DUREHETE 950 (T31) | NES 862 PT4 |
| DUREHETE 1055 (T41) | |

Non Ferrous

- | | |
|-----------------------|----------------------------|
| BRASS CZ121 | ALUMINIUM |
| NAVAL BRASS CZ112 | CUPRO NICKEL 70/30 & 90/10 |
| PHOSPHOR BRONZE PB102 | COLSIBRO |
| NICKEL ALUM BRONZE | COPPER C101 / C103 |
| DGS 8452 | HIDURON 191 ® |
| DGS 1043 GRD 1 & 2 | MARINEL ® |
| NES 833 PT2 | |
| ALUMINIUM SIL BRONZE | DEF-STAN 07-261 PT3 |
| DGS 8453 | DEF-STAN 07-261 PT5 |
| DGS 1044 | |
| NES 834 PT2 | NES 862 PT3 |
| GUN METAL | NES 862 PT5 |

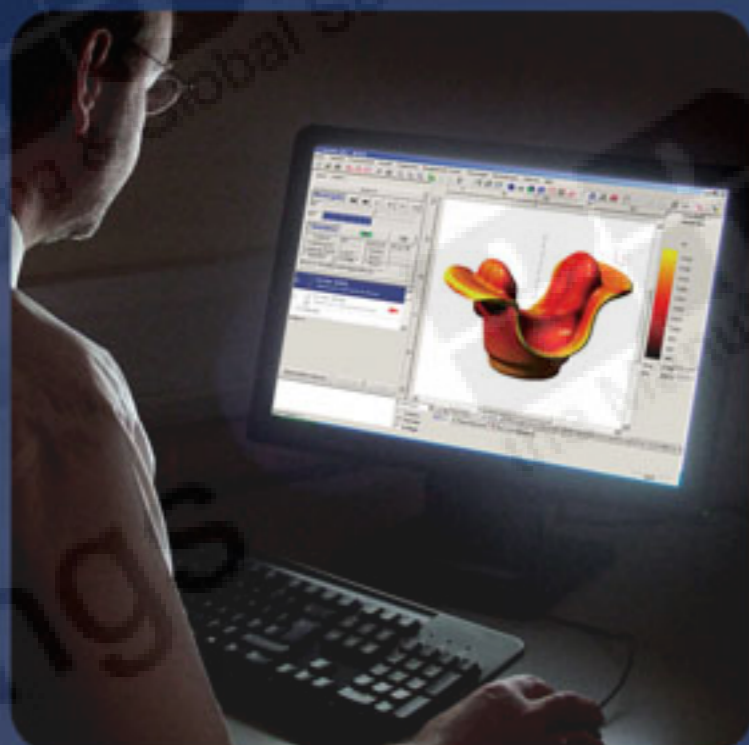
Stainless

- | | |
|--------------|--------------------|
| 304 S11 | UNS 31803 |
| 310 S31 | UNS 32550 |
| 316 S11 | UNS 32750 |
| 320 S31 | UNS 32760 |
| 321 S31 | FERRALIUM 255 ® |
| 410 S21 | ZERON 25 ® |
| 416 S21 | ZERON 100 ® |
| 420 S37 | AVESTA S44 ® |
| 431 S29 | |
| B8, B8T, B8M | 17/4PH |
| B8 CLASS 2 | NITRONIC 50 & 60 ® |
| B8M CLASS 2 | |

Duplex

Super Alloys

- | | |
|----------------------------|------------------------|
| NA 13 / MONEL ALLOY 400 ® | INCONEL 718 ® |
| NA 14 / INCONEL 600 ® | ASTM A453 GRD 660A & B |
| NA 15 / INCOLOY 800 ® | HASTELLOY B ® |
| NA 16 / INCOLOY 825 ® | C276 |
| NA 17 / INCOLOY DS ® | CARPENTER 20 ® |
| NA 18 / MONEL ALLOY K500 ® | ZIRCONIUM ® |
| NA 19 / NIMONIC 90 ® | TITANIUM |
| NA 20 / NIMONIC 80 A ® | WASPALLOY ® |
| NA 21 / INCONEL 625 ® | NICKEL 200 |
| NIMONIC 75 ® | |



Manufacturing Capabilities

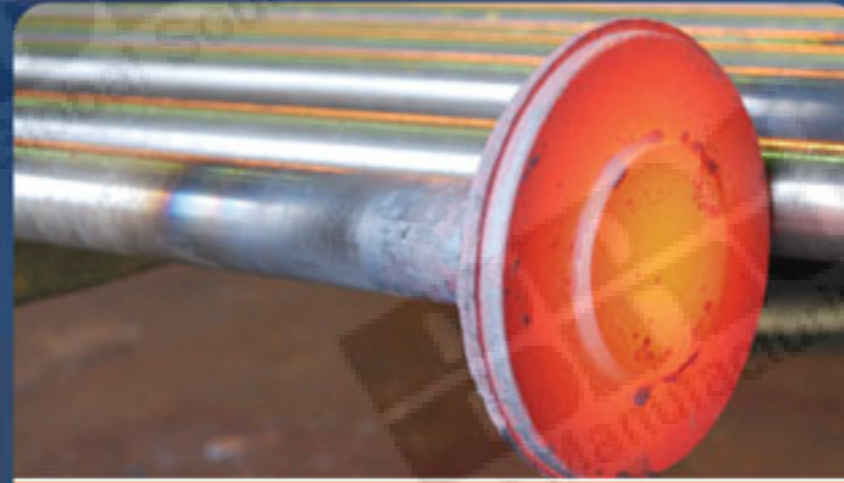
Our extensive range of manufacturing processes gives us the ability to supply to many different industry sectors.

By utilising our design department and the extensive knowledge at our disposal, we are able to reverse engineer from component samples and offer a fully bespoke service... the 'Brooks Bolting Solution'.

Very few companies in the industry are able to provide the same extent of services under one roof



Counterblow Forging



Split Die Upset Forging



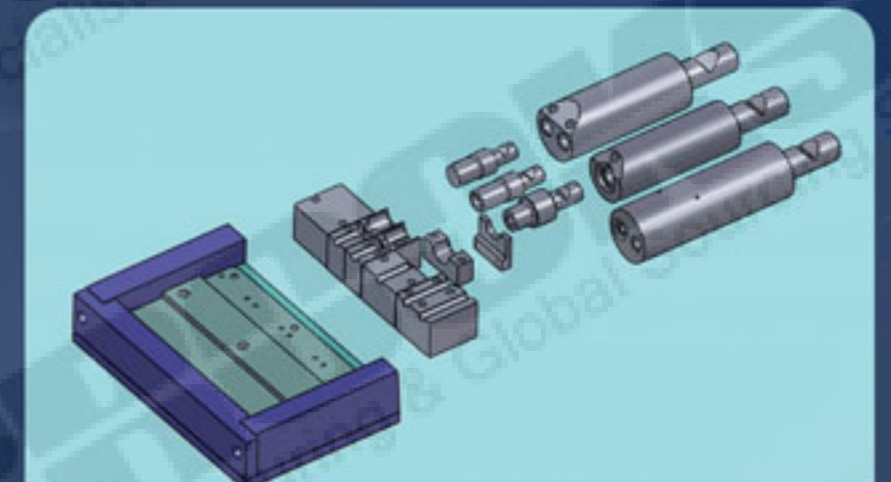
Closed Die Upset Forging



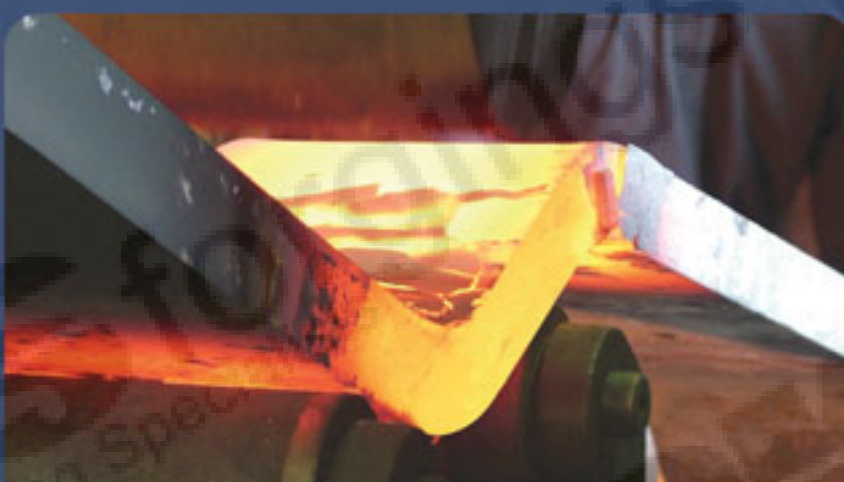
Drop Forging



Open Die Forging



Die Sinking



Hot & Cold Bending



Hot & Cold Pressing



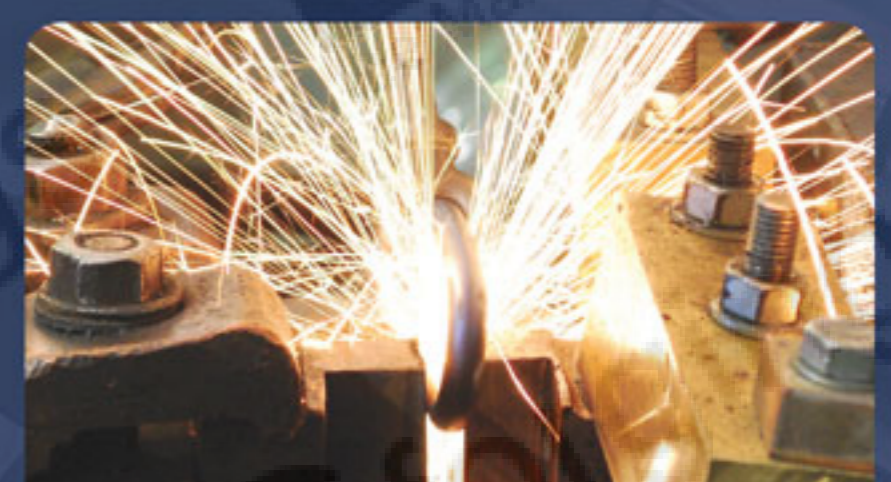
Swaging & Pointing



Machining



Fabrication & Assembly



Flash Butt Welding

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