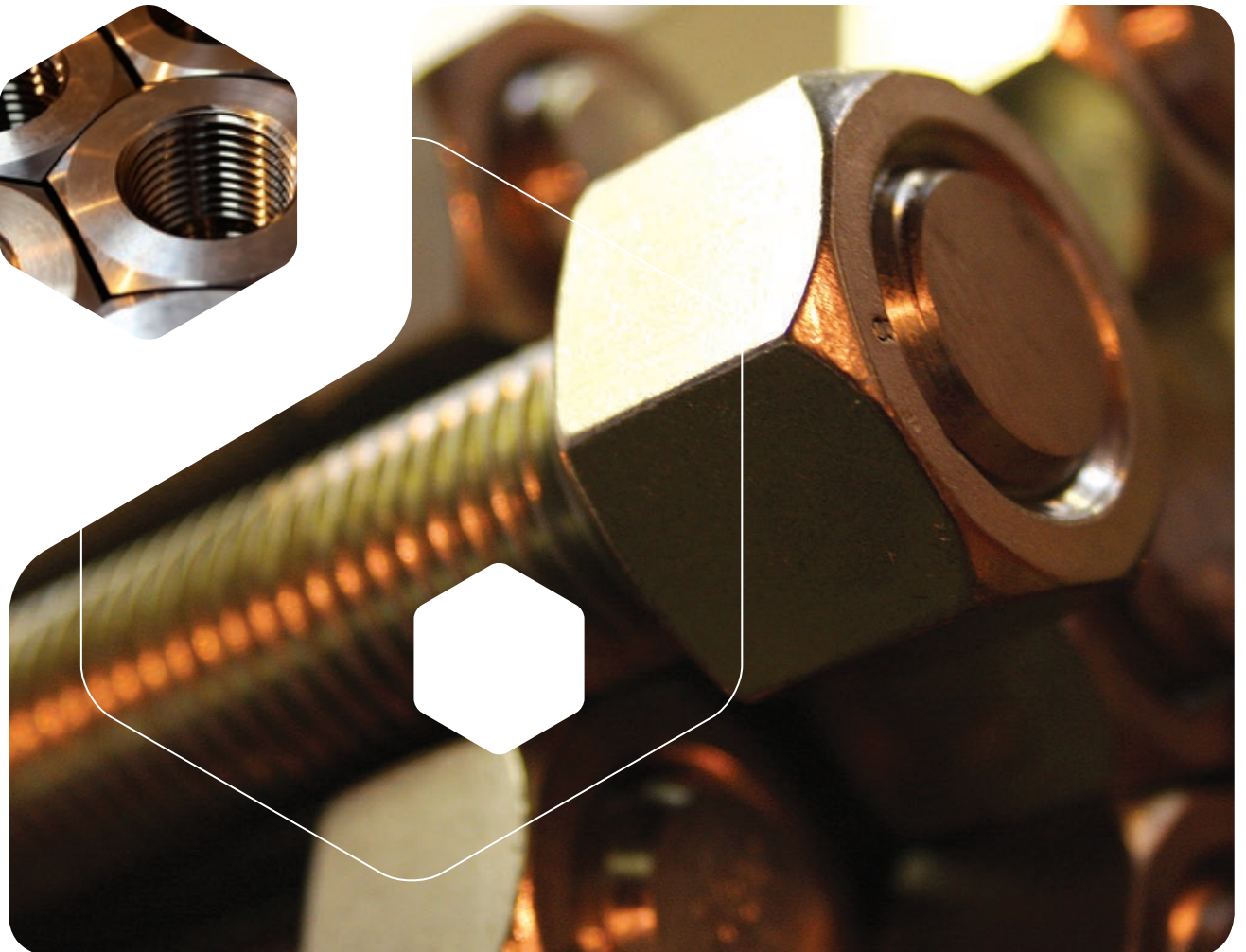


Petro-chemical Fastener Solutions

INTERACTIVE CONTENTS:
.....

- 1** Introduction
- 2** Stock – Petro-chemical Materials
- 3** Stock – Product Types
- 4** Thread Forms and Ancillary Processes
- 5** Special Fasteners
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ONE OF THE UK'S LARGEST STOCKISTS OF ASTM GRADE FASTENERS.

STUDBOLT SPECIALISES IN:

- **MANUFACTURING, STOCKING AND DISTRIBUTION OF PETRO-CHEMICAL GRADE STUDBOLT ASSEMBLIES AND FASTENERS.**
- **MANUFACTURING OF FULLY TRACEABLE, HIGH INTEGRITY SPECIAL FASTENERS AND MACHINED COMPONENTS.**

Key Strengths:

- **Quality**
- **On-time deliveries**
- **Flexibility**
- **International experience**
- **Stock levels**
- **Breakdown delivery service**

Established in 2003, Studbolt has grown to be one of the largest stockists of petro-chemical grade bolting in Europe. Growth has been achieved by focusing on customer requirements, giving customers what they want first time, everytime – quality and on-time deliveries at competitive prices.

Significant stock levels of fully certified and traceable raw material, semi-finished and finished goods help reduce lead times and enable Studbolt to react quickly to customer requirements.

All stock is held at the head quarters in the UK and if we do not have the goods in stock, we can make them for you in our extensive modern machine shop.

Studbolt's global multi-lingual sales force is always there to help you, no matter where you are in the world.

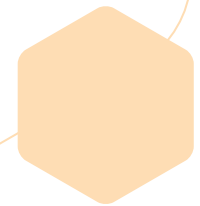
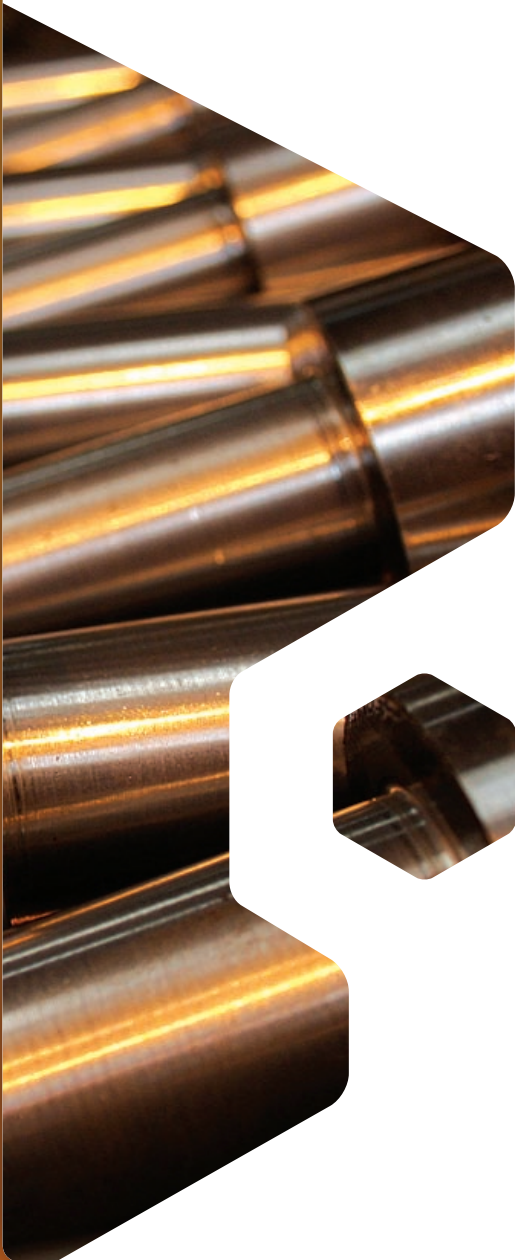


BOLTING GRADES

ASTM A193	<ul style="list-style-type: none"> • B6 • B7 • B7M • B8 class 1 & 2 	<ul style="list-style-type: none"> • B8M class 1 & 2 • B8T class 1 & 2 • B8C
ASTM A320	<ul style="list-style-type: none"> • L7 • L7M 	<ul style="list-style-type: none"> • L43
ASTM A453	<ul style="list-style-type: none"> • 660A • 660B 	<ul style="list-style-type: none"> • 660D
ASTM A182, A276, A479	<ul style="list-style-type: none"> • 31803 	<ul style="list-style-type: none"> • 32760 SA, FG, FLT

NUT GRADES

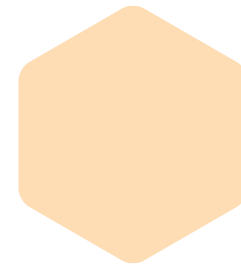
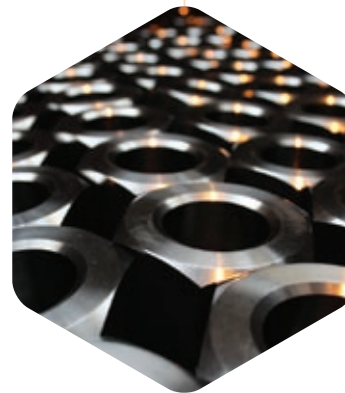
ASTM A194	<ul style="list-style-type: none"> • 2H • 2HM • 4 • 7 • 8 	<ul style="list-style-type: none"> • 8M • 8A • 8MA • 8T • 8C
ASTM A453	<ul style="list-style-type: none"> • 660A • 660B 	<ul style="list-style-type: none"> • 660D
ASTM A182, A276, A479	<ul style="list-style-type: none"> • 31803 	<ul style="list-style-type: none"> • 32760





FASTENER TYPES FROM STOCK

STUDBOLTS	<ul style="list-style-type: none"> • ANSI B16.5 • DIN 976 	<ul style="list-style-type: none"> • BS4882
STUDDING	<ul style="list-style-type: none"> • DIN 975 	
HEX BOLTS & BLANKS	<ul style="list-style-type: none"> • ANSI B18.2.1 	<ul style="list-style-type: none"> • DIN 931
SOCKET CAPSCREWS & BLANKS	<ul style="list-style-type: none"> • ANSI B18.3 • 1960 Series 	<ul style="list-style-type: none"> • DIN 912
HEX NUTS	<ul style="list-style-type: none"> • ANSI B18.2.2 	<ul style="list-style-type: none"> • DIN 934 H=D
12 POINT FERRY HEAD BOLTS	<ul style="list-style-type: none"> • IFI115 	



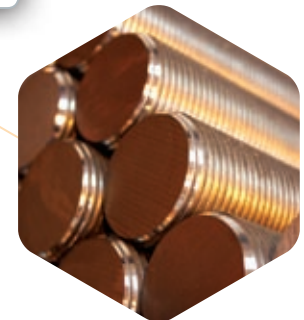
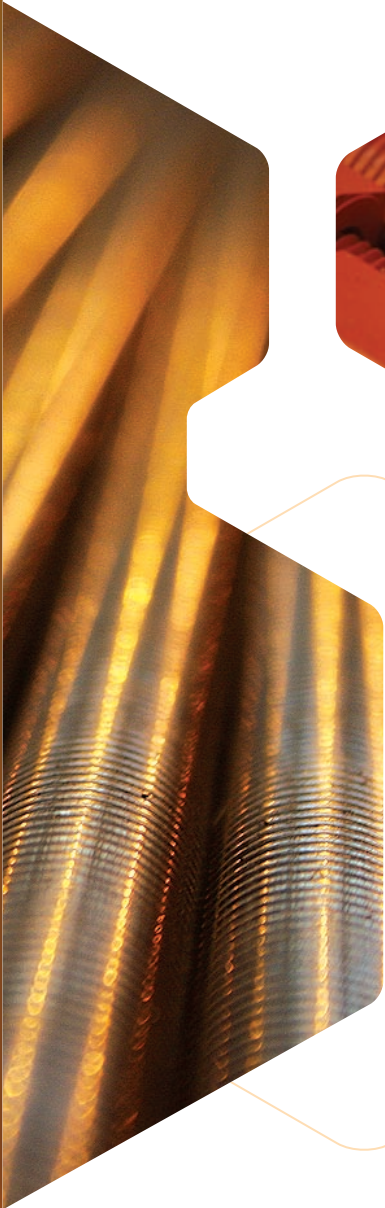
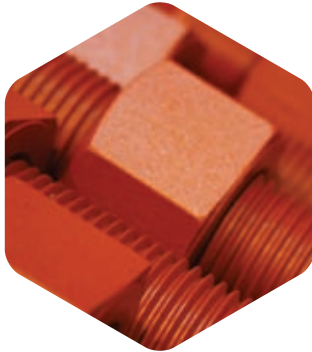
THREAD FORMS

All fasteners can be supplied with the following thread forms:

METRIC	Metric fine	Metric Course
UN	UNC UNF	UNF UN8
WHITWORTH	BSW	BSF

ANCILLARY PROCESSES

HEAT TREATMENT	Quenching and tempering Normalising Nitriding Case Hardening	Thru Hardening Solution Annealing Precipitation Hardening
COATINGS	Zinc Zinc Nickel Hot Dip Galv PTFE/Xylan/Teflon Phosphate	Xylar/Xylan Molykote Sherardizing Cadmium



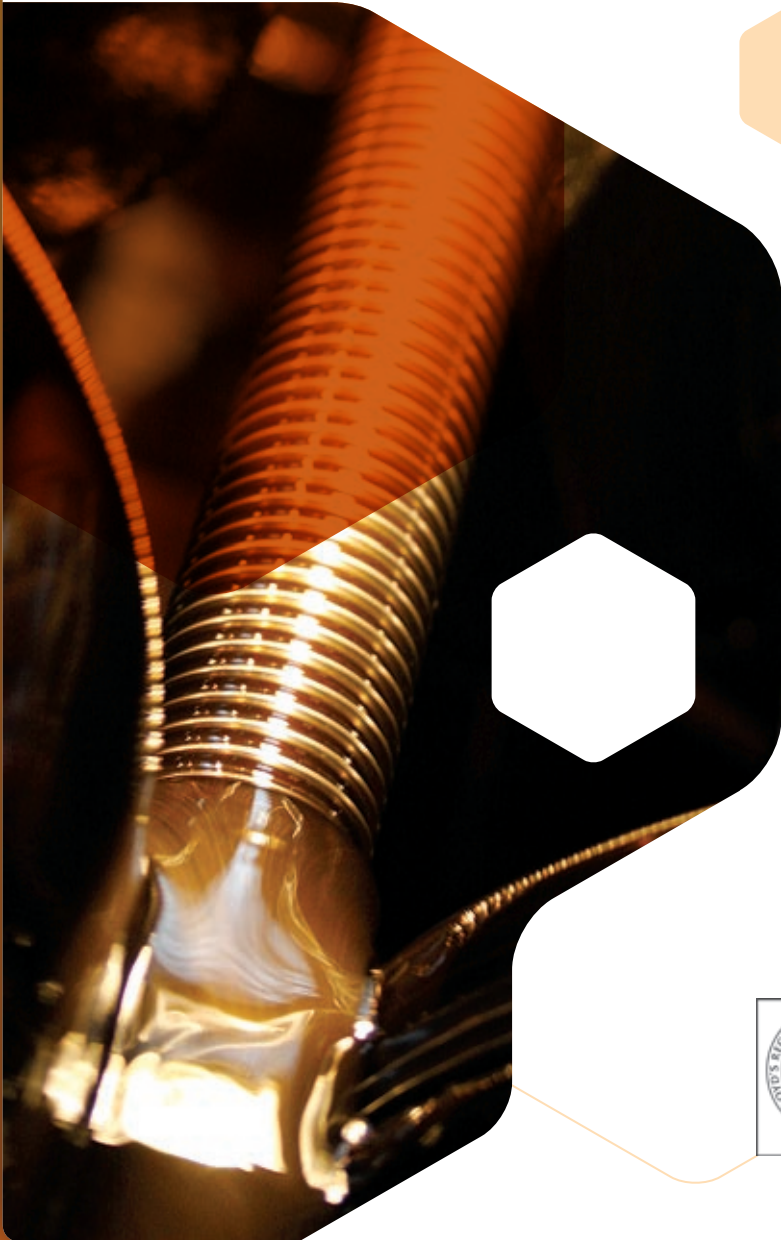
SPECIAL FASTENERS TO SUIT CUSTOMERS' REQUIREMENTS:

- TO DRAWINGS
 - IN UNUSUAL MATERIALS
 - TO CUSTOMER SPECIFICATIONS
 - WITH UNUSUAL THREADS
 - WITH ADDITIONAL TESTING
- IN THE MATERIALS LISTED.

MATERIALS

EXOTIC ALLOYS	<ul style="list-style-type: none"> • Hastelloy C22/C276 • Monel 400/K500 • Nitronic 50/60 	<ul style="list-style-type: none"> • Inconel 600/625/718/800/925 • Titanium grade 2, 5 • 660A, B, D
DUPLEX & SUPER DUPLEX	<ul style="list-style-type: none"> • 32760 (Zeron 100) SA, FG, FLT • 32750 • 31254 (254SMO) 	<ul style="list-style-type: none"> • 31803 (1.4462) • 32550 (Ferralium)
HEAT RESISTING GRADES	<ul style="list-style-type: none"> • Durehete 950, 1055 • 21CrMoV5.7 • Jethete X19 • Esshete 1250 • Nimonic 80A/90 	<ul style="list-style-type: none"> • X22CrMoV12.1 (1.4923) • X19CrMoVNbN11.1 (1.4913) • B16 • 1.7729
STAINLESS STEELS	<ul style="list-style-type: none"> • 304 • 310 • 316 • 317 • 321 	<ul style="list-style-type: none"> • 347 • 410 • 420 • 431 • 904L (Uranus B6)
PRECIPITATION HARDENED STAINLESS STEELS	<ul style="list-style-type: none"> • 17/4ph (630) 	<ul style="list-style-type: none"> • FV520B
CARBON & ALLOY STEELS	<ul style="list-style-type: none"> • Mild steel • 080M40 (EN8) • 605M36 (EN16) • 709M40 (EN19) 	<ul style="list-style-type: none"> • 817M40 (EN24) • 826M40 (EN26) • AISI 4140 • AISI 4340
NON-FERROUS	<ul style="list-style-type: none"> • Hiduron • Marinel • Cupro nickel 70/30 & 90/10 • Silicon aluminium bronze • Aluminium 	<ul style="list-style-type: none"> • Phosphor bronze • Manganese bronze • Aluminium bronze • Copper • C63000





MANUFACTURING & QUALITY

Studbolt has an extensive, modern in-house manufacturing facility.

THE RANGE OF MACHINERY CONSISTS OF:

- CNC lathes
- CNC milling machines
- Hot forges
- Thread rolling
- Capstans
- Semi-automatic lathes
- Centreless grinding
- Automatic saws
- Tapping machines
- Single point screw cutting machine

MANUFACTURING CAPACITY RANGES FROM:

M1.6 (1/16" dia) to M180 (7" dia) in any length.



QUALITY ASSURANCE

Studbolt is LRQA approved to BS EN ISO9001:2000. The system ensures quality control is maintained throughout all stages of production. Studbolt prides itself on quality controls that ensure products are fully compliant to customer requirements.

CERTIFICATION

- The following levels of certification are available:
- Certificate of conformity
 - Certificates to BS EN 10204 2.1, 2.2, 3.1
 - Independent inspection to BS EN 10204 3.2
 - Inspection bodies LRQA, ABS, DNV, BV

ADDITIONAL TESTING:

- MPI
- Dye Pen
- UT
- PMI
- Mechanical
- Impacts
- Chemical analysis



EXPERIENCE AND MARKETS

Studbolt supplies products to industries demanding safety and quality critical products:

- Oil & Gas
- Petro-chemical
- Power generation
- Offshore
- Nuclear
- Defence
- Heavy engineering
- Automotive

Plant and equipment our products are used in include:

- Turbines
- Subsea equipment
- Boilers
- Valves and Actuators
- Pumps
- Wellheads
- Nuclear reactors
- Heat exchangers
- Pipework fabrications
- Offshore cranes
- Racing cars
- Bridges
- Pressure vessels
- Filters
- Mining equipment
- Diesel engines



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