



Global Fastener & Pipeline Solutions

- Special fasteners manufactured to order
- Studbolt assemblies from stock
- Coldformed special fasteners
- Pipeline products & accessories



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Manufacturer and supplier of hot forged and bar turned special fasteners

Special fasteners manufactured to customer requirements:

- To drawings
- With additional testing
- To customer and end user specifications
- With unusual threads
- In unusual materials
- With special dimensions and tight tolerances
- With specified manufacturing methods

Types of fasteners include:

- Hex bolts & setscrews
- Nuts – hex, round, flange
- Socket head capscrews
- Wasted studs
- 12 point ferry head bolts
- Engineer studs
- Cap nuts
- Studbolt assemblies

Thread forms:

- Metric coarse
- Metric fine
- Metric J
- UNF
- UNC/UN8
- UNJ
- BSF
- BSW

Customer focus and flexibility are key strengths at Hydrobolt, focusing on what customers want in terms of quality, product integrity, service, on-time deliveries and documentation.



Petrochemical grade fasteners from stock

Product types include:

- Studbolts assemblies
- Hex products (bolts, setscrews & blanks)
- Hex nuts
- Socket capscrews
- Studding/allthread

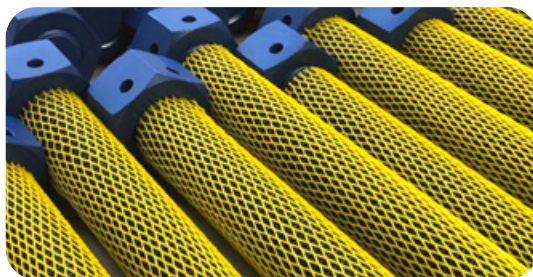
Size range:

- M6 to M100 (Metric coarse thread)
- 1/4" UNC to 1-1/2" UNC
- 1-1/8" UN8 to 4" UN8

Plating:

- Zinc
- Zinc nickel
- Hot dip galvanised (HDG)
- PTFE/Xylan/Xylar/Teflon
- Phosphate
- Molykote
- Cadmium
- Phosphate
- Sermagard
- Delta protekt

One of the largest inventories of fully certified ASTM fasteners in Europe.



Supplying special pipeline packages

Flanges:

- Weld neck
- Blind
- Socket weld
- Slip on
- Threaded
- API subsea
- Spectacle
- Blind
- Paddle
- Swivel & Anchor

Fittings (forged/ butt weld):

- Elbows
- Tees
- Reducers
- Caps
- Sockets
- Unions

Plus:

- Gaskets
- Pipe
- Valves
- Blocks
- Tees
- Crosses

To compliment the special fasteners and studbolts, we are also able to offer difficult to obtain flanges, fittings and gaskets on fast turnarounds, as well as complete packages of pipeline products.



Manufacturing special cold formed fasteners on quick turnarounds

Cold formed fasteners:

- Hex bolts/setscrews
- Flange bolts
- Tee bolts
- Eye bolts
- Carriage bolts
- Scaffold bolts
- Roof bolts
- Jacking screws
- Plough bolts
- Socket products

Size range:

- (M6 to M16) x 150mm long
- (1/4" to 5/8" dia) x 6" long

Heat treatment:

- Quenching & tempering
- Normalising
- Precipitation hardening
- Nitriding
- Case hardening
- Thru hardening

Optimum batch sizes are 500 to 200,000 pcs and material is sourced from European mills ensuring high integrity products are supplied.





Markets

Nuclear:

- Civil
- Defence

Right first time, zero defects

Other industries:

- Construction
- Automotive
- Agriculture
- Heavy engineering

Cost effective fastener solutions

Power Gen:

- Renewables
- Non-renewables

High service levels from an experienced and reputable manufacturer

Oil & Gas:

- Upstream
- Midstream
- Downstream

High integrity products supplied in a sustainable manner



Quality & approvals

All activities complying to the necessary standards and regulations

Levels of certification:

- Certificate of conformity (CoC)
- BS EN 10204 3.1
- BS EN 10204 3.2 with third party inspection bodies
 - LRQA
 - ABS
 - DNV
 - Bureau Veritas
 - TUV
- Mill certs
- PPAP

Testing:

Raw material and products tested by ISO17025 approved UKAS laboratories:

- Mechanical tests
 - Impacts and charpys
 - Hardness
 - Proof load
 - Chemical analysis
 - Elevated temperature testing
 - Micro structure analysis
- and non-destructive tested by PCN level 2 & 3 qualified operators:
- Ultrasonic Inspection/Testing (UT)
 - Positive Material Inspection (PMI)
 - Magnetic Particle Inspection (MPI)
 - Dye Penetrant Inspection (DPI)

Documentation:

- Certification & inspection packs
- Vendor data books
- Final release documentation
- QC1, 2 & 3 Life Time Quality Records (LTQR's)



Materials

Total traceability and fully certified

Nickel Alloys

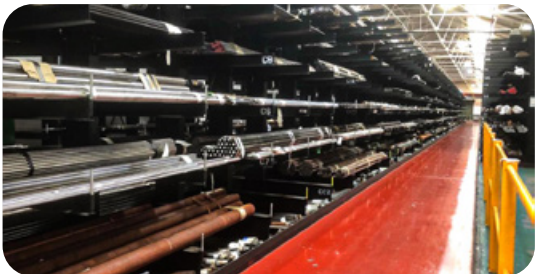
- 2.4602/Hastelloy C22/UNS N06022
- 2.4819/Hastelloy C276/UNS N10276
- 2.4856/Inconel 625/UNS N06625
- Inconel 725/UNS N07725
- Incoloy 925/UNS N09925
- Nitronic 50/60

Power Stations

- 1.7709/21CrMoV5.7
- 1.7729/20CrMoVTiB4-10/
Durehete 1055
- 1.7711/B16
- 2.4952/Nimonic 80A/UNS N07080
- 2.4632/Nimonic 90/UNS N07090
- 2.4668/Inconel 718/UNS N07718
- 1.4980/2A286/UNS S66286
- 1.4913/X19CrMoVNbN11.1
- 1.4923/X22CrMoV12.1
- 422/UNS S42200/AISI 636/B50A

ASTM grades

- A193 – B7/B7M/B16/B6/B8/B8M/B8T/B8C/B8R/B8S
- A194 – 2H/2HM/4/6/7/7M/8/8M/8T
- A320 – L7/L7M/L43
- A453 – 660A/B/D
- A1082 – 32760





Materials

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Marine Grades

- BS3076 NA13/Monel 400
- BS3076 NA18/Monel K500
- Ni Al Bronze
- Phos Bronze
- Hiduron & Marinel
- Cupro Nickel 70/30 & 90/10

Duplex & Super Duplex

- 1.4462/UNS S31803
- NORSOK M630 D47
- 1.4410/UNS S32750
- 1.4501/UNS S32760
- NORSOK M630 D59 & D60
- 6Mo/254SMO/UNS S31254

Stainless Steels

- 304/310/316/321/347
- 410/431
- 904L (Uranus B6)
- 630 (17/4ph)
- FV520B

Fastener grades

- ISO898 & BS3692 – 4.6/8.8/10.9/12.9/14.9
- BS3111, BS1083 & BS1768 – grade R/S/T/V/X

Engineering Steels

- EN19 (709M40)
- EN24 (817M40)
- EN26 (826M40)

