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**HYDROBOLT SPECIALISES IN:**

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

**Key Strengths:**

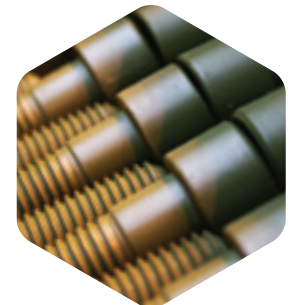
- **Quality**
- **On-time deliveries**
- **Flexibility**
- **International experience**
- **Stock levels**
- **Breakdown delivery service**

Hydrobolt has established itself as a market leader, exporting its products worldwide. The company is customer orientated, focusing on what customers require in terms of quality, deliveries, service and competitiveness.

All product is supplied from head quarters in the UK where our comprehensive workshop and extensive stocks are situated.

Our global multi-lingual sales force is structured such that there is always a Hydrobolt sales person local to you who is able to help.

Our vast stocks of fully certified and traceable raw material, semi-finished and finished goods help reduce lead times and enable Hydrobolt to react quickly to customer requirements.



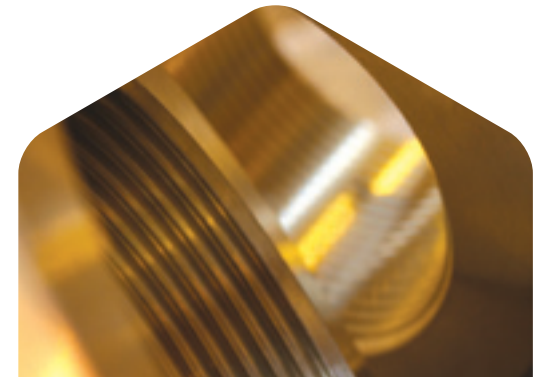
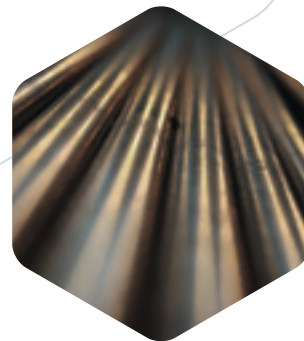
**MATERIALS**

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



**PETRO-CHEMICAL FASTENERS**

<p><b>BOLT GRADES</b></p>	<p>ASTM A193/A320</p> <ul style="list-style-type: none"> <li>• B6</li> <li>• B7</li> <li>• B7M</li> <li>• L7</li> <li>• L7M</li> <li>• B16</li> </ul>	<ul style="list-style-type: none"> <li>• L43</li> <li>• B8 class 1 &amp; 2</li> <li>• B8M class 1 &amp; 2</li> <li>• B8T class 1 &amp; 2</li> <li>• B8C</li> <li>• B8R</li> <li>• B8S</li> </ul>
<p><b>NUT GRADES</b></p>	<p>ASTM A194</p> <ul style="list-style-type: none"> <li>• 2H</li> <li>• 2HM</li> <li>• 4</li> <li>• 6</li> <li>• 7</li> <li>• 7M</li> </ul>	<ul style="list-style-type: none"> <li>• 8</li> <li>• 8A</li> <li>• 8C</li> <li>• 8M</li> <li>• 8MA</li> <li>• 8T</li> </ul>
<p><b>BOLT &amp; NUT GRADES</b></p>	<p>ASTM A453, A286</p> <ul style="list-style-type: none"> <li>• 660A</li> <li>• 660B</li> <li>• 660D</li> </ul>	<p>ASTM A182, A276, A479</p> <ul style="list-style-type: none"> <li>• 31803</li> <li>• 32760 SA, FG, FLT</li> </ul>



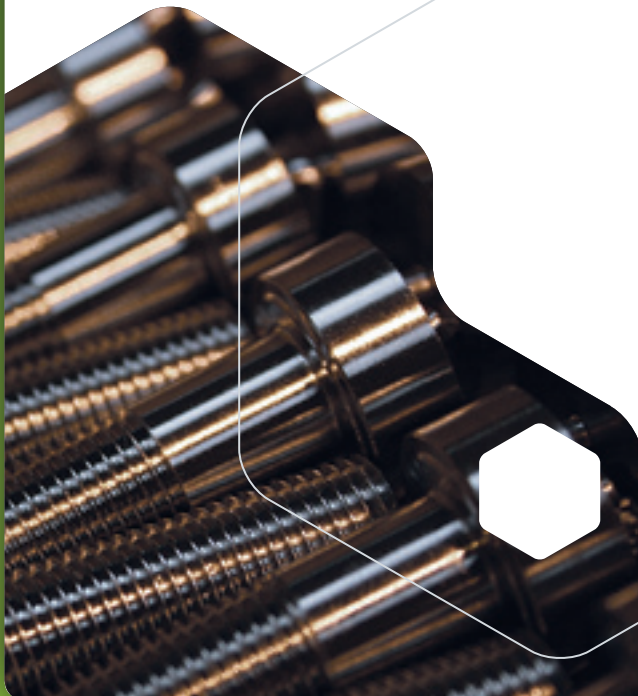
**SPECIAL FASTENERS TO SUIT CUSTOMERS' REQUIREMENTS:**

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

**PETRO-CHEMICAL FASTENERS AND STUDBOLT ASSEMBLIES FROM STOCK.**

**PRODUCT TYPES**

<b>BOLTS AND SETSCREWS</b>	Normal and heavy series			
	ANSI	B18.2.1		
	DIN	931	933	
	BS	1083	1768	1769 3692
	ISO	4014	4017	
<b>SOCKET SCREWS</b>	Socket capscrews 1936 & 1960 series, socket setscrews			
	ANSI	B18.3		
	DIN	912	913	916 6912
	BS	2470	4168	
	ISO	4762		
<b>STUDBOLTS</b>	ANSI	B16.5		
	DIN	975	976	
	BS	4882		
<b>NUTS</b>	Normal and heavy series			
	ANSI	B18.2.2		
	DIN	934		
	BS	1083	1768	1769 3692
	ISO	4032		
<b>ENGINEER STUDS</b>	DIN	938	939	2510
	BS	2693		
<b>WASHERS</b>	Flat	Tab	Spring	Special designs



### THREAD FORMS

All fasteners can be supplied with the following thread forms:

Metric Course	UNC	BSW	ACME
Metric fine	UNF	BSF	
	UN8		
	UNS		

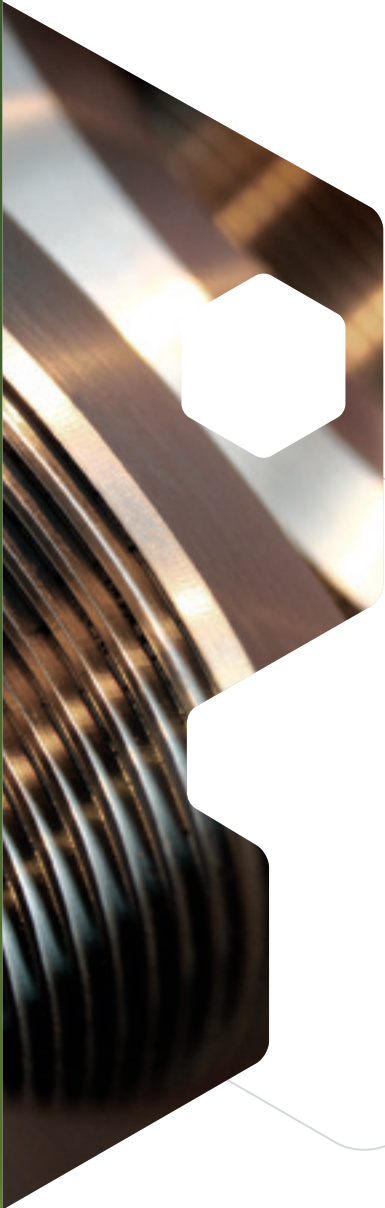
### ANCILLARY PROCESSES

#### HEAT TREATMENT

Quenching and tempering	Thru Hardening
Normalising	Solution Annealing
Nitriding	Precipitation Hardening
Case Hardening	

#### COATINGS

Zinc	Xylar/Xylan
Zinc Nickel	Molykote
Hot Dip Galv	Sherardizing
PTFE/Xylan/Teflon	Cadmium
Phosphate	



## MANUFACTURING & QUALITY

Hydrobolt 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

Hydrobolt is LRQA approved to BS EN ISO9001:2000. The system ensures quality control is maintained throughout all stages of production. Hydrobolt 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

**Hydrobolt 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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