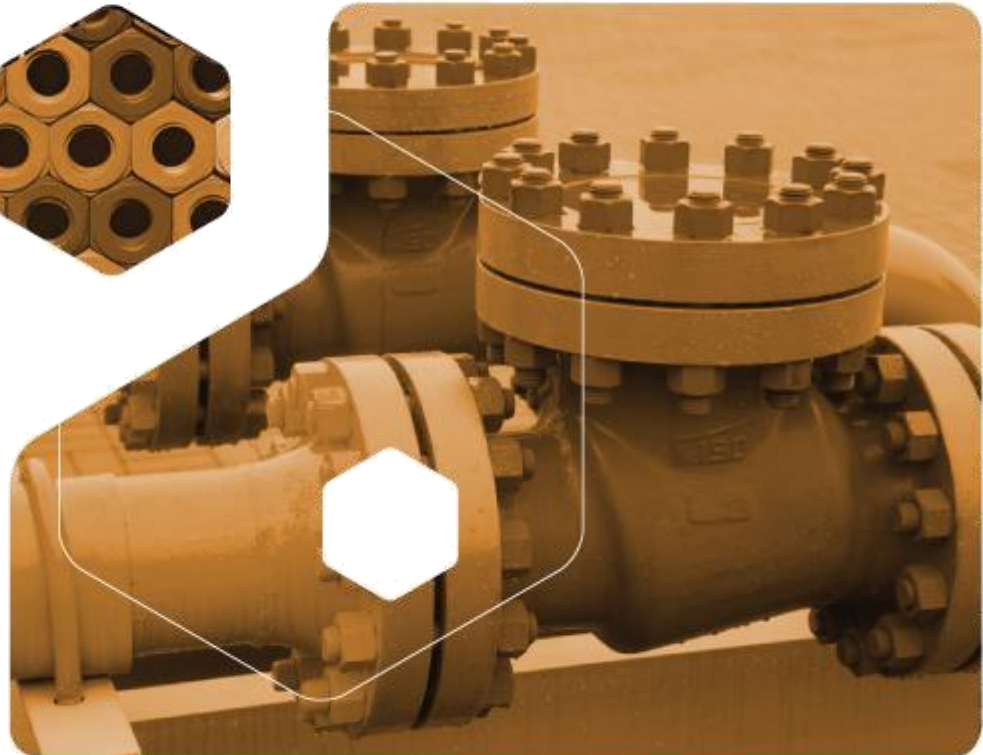


## Petro-chemical Fastener Solutions

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- 1 Introduction
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- 3 Stock – Product Types
- 4 Thread Forms and Ancillary Processes
- 5 Special Fasteners
- 6 Manufacturing & Quality
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**ONE OF THE GUJARAT'S LARGEST STOCKISTS OF ASTM GRADE FASTENERS.**

**REAMS 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.**

Established in 2015, REAMS FASTENERS has grown to be one of the largest stockists of petro-chemical grade bolting in Gujarat. 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 Vadodara 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.



**Key Strengths:**

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

**BOLTING GRADES**

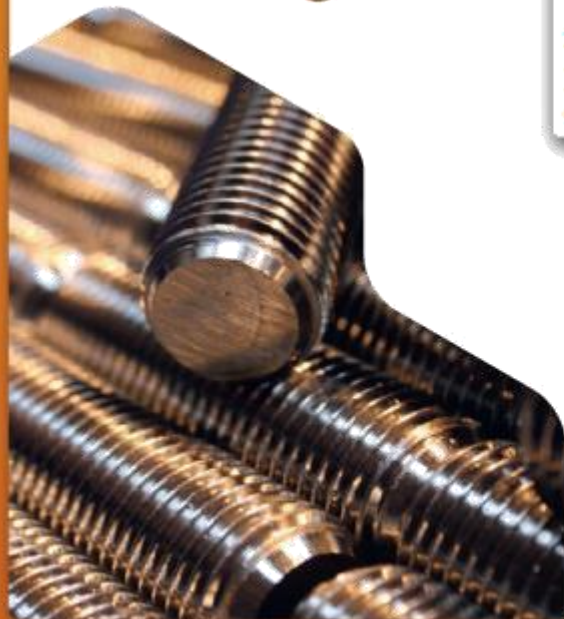
ASTM 193	<ul style="list-style-type: none"> <li>• B5</li> <li>• B6</li> <li>• B7</li> <li>• B7M</li> </ul>	<ul style="list-style-type: none"> <li>• B16</li> <li>• B8M class 1 &amp; 2</li> <li>• B8 class 1 &amp; 2</li> <li>• B8C, B8T</li> </ul>
ASTM 320	<ul style="list-style-type: none"> <li>• L7, L7A, L7B, L7C, L43</li> <li>• B8 class 1 &amp; 2</li> </ul>	<ul style="list-style-type: none"> <li>• B8M class 1 &amp; 2</li> <li>• B8F, B8T</li> </ul>
ASTM 325	<ul style="list-style-type: none"> <li>• Type - 1,2,3</li> </ul>	
ASTM 490	<ul style="list-style-type: none"> <li>• Type - 1,2,3</li> </ul>	
ASTM 307	<ul style="list-style-type: none"> <li>• GR - A, B</li> </ul>	
ISO 898 / IS-1367	<ul style="list-style-type: none"> <li>• GR - 4.6, 5.6, 8.8, 10.9, 12.9</li> </ul>	

**NUT GRADES**

ASTM 194	Grade <ul style="list-style-type: none"> <li>• 1</li> <li>• 2H</li> <li>• 2HM</li> <li>• 4</li> </ul> <ul style="list-style-type: none"> <li>• 7</li> <li>• 7M</li> <li>• 8</li> <li>• 8M</li> </ul>
ASTM 563	Grade <ul style="list-style-type: none"> <li>• 0, A, B, C, C3, D, DH, DH3</li> </ul>
ISO 898 / IS-1367	Grade <ul style="list-style-type: none"> <li>• 4, 5, 6, 8, 10, 12</li> </ul>


**PRODUCT TYPES**

STUD	<ul style="list-style-type: none"> <li>• ANSI B18.31, 1 M</li> <li>• DIN 976 as per drawing</li> </ul>	• BS4882
HEX BOLT	<ul style="list-style-type: none"> <li>• ISO - 4014, 4017</li> <li>• IS - 1363 as per drawing</li> </ul>	• DIN 931, 933
HEX NUT	<ul style="list-style-type: none"> <li>• ANSI B18.2.2</li> <li>• DIN 934</li> </ul>	<ul style="list-style-type: none"> <li>• ISO - 4032</li> <li>• IS - 1364 as per drawing</li> </ul>
PLAIN WASHER	<ul style="list-style-type: none"> <li>• DIN - 125</li> <li>• ISO - 7090 as per drawing</li> </ul>	
FOUNDATION BOLT	<ul style="list-style-type: none"> <li>• as per drawing</li> </ul>	





PRODUCT TYPES

ANCHOR FOUNDATION	- as per drawing
J BOLT	- as per drawing
U BOLT	- as per drawing
T BOLT	- AS PER DIN- 1445, 787, 186,261,25192



### 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"> <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>
DUPLEX & SUPER DUPLEX	<ul style="list-style-type: none"> <li>• 32760 (Zeron 100) SA, FG, FLT</li> <li>• 32750</li> <li>• 31254 (2545MO)</li> </ul>	<ul style="list-style-type: none"> <li>• 31803 (1.4462)</li> <li>• 32550 (Ferrarium)</li> </ul>
HEAT RESISTING GRADES	<ul style="list-style-type: none"> <li>• Inconel 950, 1055</li> <li>• 21CrMoV5.7</li> <li>• Inconel X19</li> <li>• Inconel 1250</li> <li>• Nimonic 80A/90</li> </ul>	<ul style="list-style-type: none"> <li>• X22CrMoV12.1 (1.4923)</li> <li>• X19CrMoVbN11.1 (1.4913)</li> <li>• B16</li> <li>• 1.7729</li> </ul>
STAINLESS STEELS	<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>
PRECIPITATION HARDENED STAINLESS STEELS	<ul style="list-style-type: none"> <li>• 17/4ph (630)</li> </ul>	<ul style="list-style-type: none"> <li>• FV520B</li> </ul>
CARBON & ALLOY STEELS	<ul style="list-style-type: none"> <li>• Mild steel</li> <li>• 080M40 (EN8)</li> <li>• 60S36 (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>
NON-FERROUS	<ul style="list-style-type: none"> <li>• Inconel</li> <li>• Marinel</li> <li>• Cupro nickel 70/30 &amp; 90/10</li> <li>• Silicone 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>



## 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:  
M8(3/8 dia) to M180 (7" dia) in any length.

## QUALITY ASSURANCE

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.





## EXPERIENCE AND MARKETS

REAMS 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



