

## ABOUT US

### WHO WE ARE ?

With a combined experience of 55 years in management in the fastener industry the idea of Techbolt came up at a point where one of our associates came up to say that they simply could not find a fastener manufacturing company which can provide them with complete fastener solutions for their applications. With this statement Techbolt Industries was born.

The core of Techbolt Industries lies in the need for finding innovative solutions and provide the best possible service to it's clients. By offering a range of quality products and demonstrating a unique understanding of how our customers use them, we want to become an integral partner in their success stories. Hence we would like to call ourselves Fastener Consultants. We believe not just in the manufacturing of fasteners but getting the right fasteners for the right applications.

We also carry just in time solutions for fasteners and carry inventories on behalf of our clients. For major projects and large quantity or custom fastener requirements, we can set delivery schedules from blanket orders, managing the inventory in our warehouse space.

## COMPANY

Techbolt Industries is a Fastener Manufacturing and Solution providing industry. We have complete in house facilities right from bar drawing, CNC machining to PTFE, Zinc Plating and Hot Dip Galvanizing. We also have our in house laboratory to ensure every bolt made by Techbolt is meeting the required specifications and more importantly our customer's expectations.

We believe our differentiating factor is our ability to provide solutions to our clients in terms of the types and fasteners, strength, corrosion resistance and various other factors. For this reason we are highly innovative and flexible and treat each individual client according to their requirements. If you have a regular requirement for fasteners and don't want to go through the hassle of stocking and maintaining the fasteners we can do it for you.

Apart from serving OEM's we also work close with projects. We have undertaken several complex projects in petrochemicals, oil and gas, power, construction, solar, heavy engineering, energy sector, marine industries and various infrastructure and manufacturing industries related projects.

## VISION

"To be the most reliant and innovative Fastener Solutions company globally"

## MISSION

"Providing customized solutions through knowledge sharing for each individual customer"

## QUALITY

We realize the importance of effective QA / QC process for our kind of business and in order to meet today's challenges our company has implemented Quality Management systems in line with **EN ISO 9001:2015** requirements.

We have progressed in this aspect as follows :

- Have well defined quality policy.
- Have well designed quality management system.
- Have well defined job descriptions.
- Have working procedures & QC instructions for all our manufacturing operations.
- Full traceability of our products back up to raw materials certificates.
- Having progressed as above, our quality management system is certified.

For our products we provide certifications as **BS EN-10204 / 3.1**.

The responsibility & authority for maintaining of the **BS EN ISO 9001:2015** quality management system is given to our QA/QC department under the guidance of the relevant manager and the managing director.





## THREADED BARS

A threaded bar, is a relatively long rod that is threaded along the complete length of the rod. They are designed to be used in tension. Threaded rod in bar stock form is often called all-thread.

The threaded bars are formed using rolled threads, this makes them stronger because the metal is "rolled" up to the major diameter, not removed. Hence preserving the grain of the steel, and in some cases enhancing it. It is used in piping, construction and maintenance applications, threaded rods are used to join together and stabilize objects and structures made of metal and concrete.

At Techbolt we produce a wide range of threaded bars.

### **CATEGORY:**

We specialize in Alloy steel and Stainless Steel Threaded Bars these include Grades in A 193, A 320, A 540 such as Gr B7, B7M, L7, L7M, B16, B6, B6X, B23, B24, L43, B8 Cl 1, B8 Cl 2, B8M Cl 1 B8M Cl 2 B8T Cl 1 and B8T Cl 2

### **RANGE OF SIZES:**

Diameter ranging From 1/2" to 4" [12-100 mm]  
Standard 12ft or customized length as per buyers requirement

### **CODES & SPECIFICATIONS:**

ASTM / ASME / AISI / BS / DIN / ISO / IS

### **RAW MATERIAL:**

Carbon Steel, Mild Steel, Alloy Steel, Ferritic & Austenitic Stainless Steel

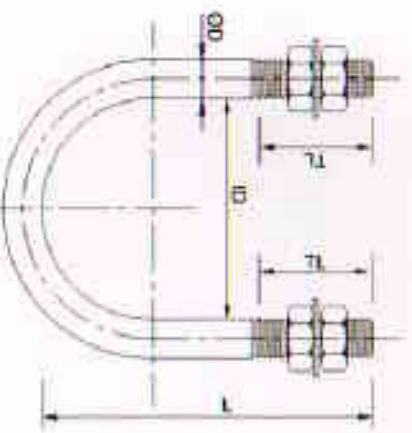
### **SURFACE FINISH:**

Self-Finish, Blacodizing or any other as per order requirement

U-bolt is a bolt in the shape of the letter U with screw threads on both ends. U-bolts have primarily been used to support pipework. A U-bolt is generally described by the size of pipe it is supporting. U-bolts are also being used to clamp any kind of tubing or round bars.

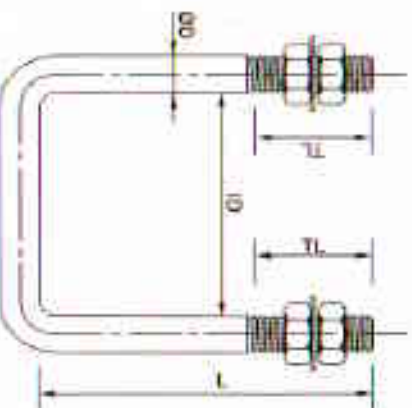
At Techbolt, we produce the following range of U Bolts :

#### ROUND BEND U BOLT



< Ordering Information: >  
D x ID x L x TL

#### SQUARE BEND U BOLT



#### CATEGORY:

Round Bend U Bolts, Square Bend U Bolts,  
Custom Bend U Bolts.

#### RANGE OF SIZES:

U Bolt Threaded Diameter ranging from  
 $\frac{1}{4}$ " to 1.5" [6-38 mm]  
Custom size as per buyer's requirements.

#### CODES & SPECIFICATIONS:

ASTM / ASME / AISI / BS / DIN / ISO / IS

#### RAW MATERIAL:

Carbon Steel, Mild Steel, Alloy  
Steel, Ferritic & Austenitic Stainless  
Steel, Exotic Material.

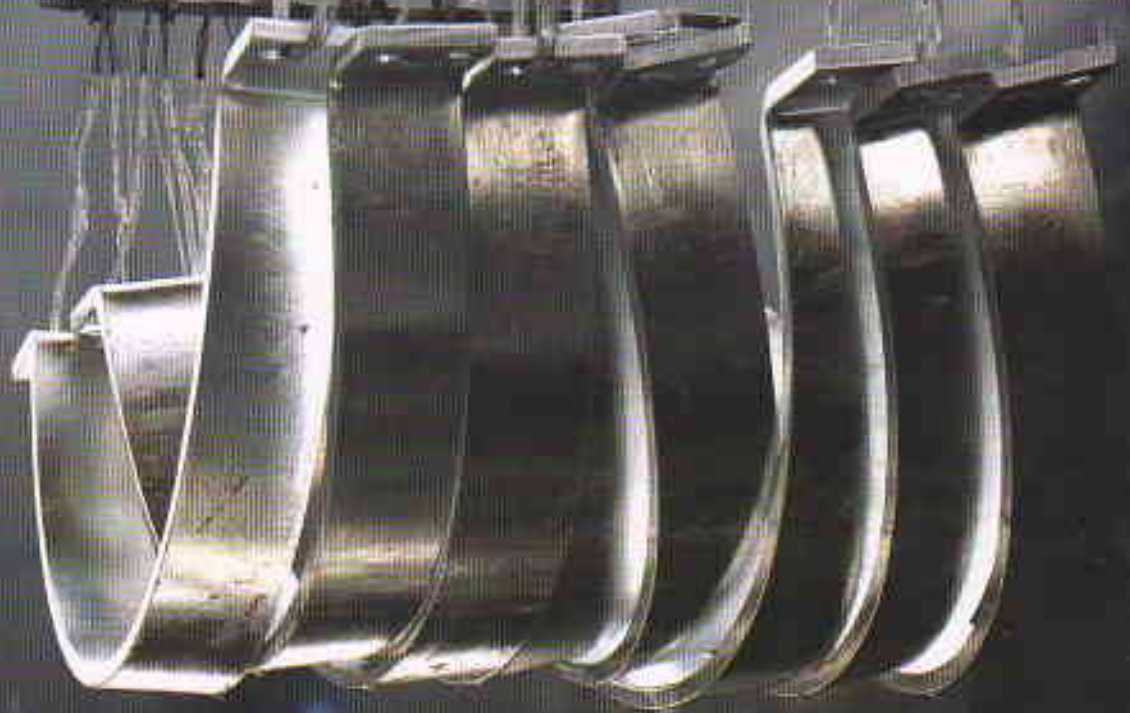
#### SURFACE FINISH:

Self-Finish, Electro Galvanized,  
Hot-dip Galvanized, Blacodizing,  
Phosphating, Di-Chromated,  
P.T.F.E. Coated or any other as  
per order requirement.

## U BOLTS



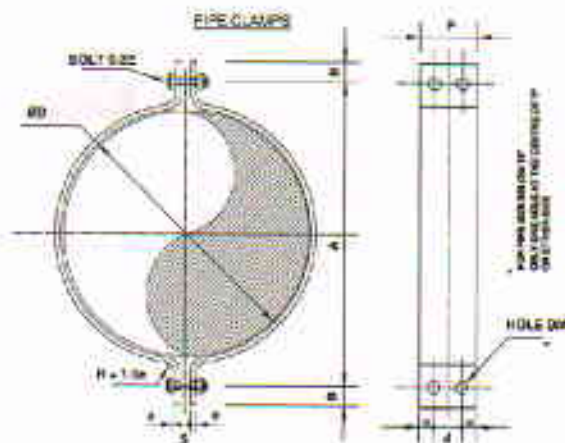




## PIPE CLAMPS

A clamp is used to connect a pipe to the remainder of a pipe hanger assembly. Pipe clamps are recommended for suspension for cold pipe lines that may or may not be insulated. Pipe Clamps are usually used on pipes to grasp it and facilitate hoisting or suspension.

At Techbolt we produce the following range of Clamps:



### CATEGORY:

Pipe Type Clamps, Shoe Type Pipe Clamps, U Type Pipe clamps, Socket Clamps and Custom Clamps.

### RANGE OF SIZES:

Pipe Size : 1/2" To 60"  
Custom size as per buyers requirements.

### CODES & SPECIFICATIONS:

ASTM / ASME / AISI / BS / DIN / ISO / IS

### RAW MATERIAL:

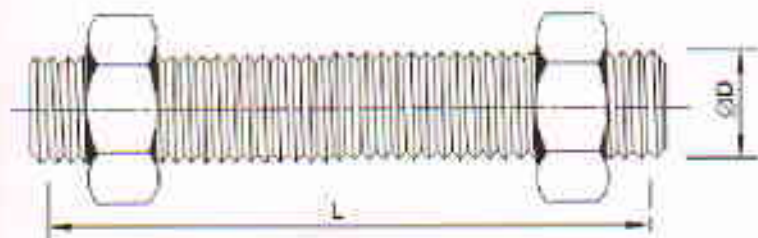
Carbon Steel, Mild Steel, Alloy Steel, Stainless Steel.

### SURFACE FINISH:

Self-Finish, Electro Galvanized, Hot-dip Galvanized, Blacodizing, Phosphating, Di-Chromated, P.T.F.E. Coated or any other as per order requirement.

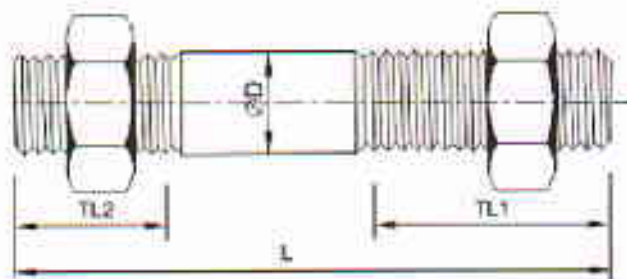
Stud Bolts are fully threaded headless bolts used on pipeline flanges for joining the pipelines. The main advantage of Stud Bolts over the Hex Bolts is that, it can be tightened from both the ends by holding one end with nut. At Techbolt we produce the following range of studs :

#### FULL THREADED STUD BOLT



Ordering Information: D x L

#### BOTH END THREADED STUD BOLT



Ordering Information: D x L x TL1 x TL2

#### CATEGORY:

Full Threads, Partial Threads, Both End Threads, Tie Rods and customized as per requirements.

#### RANGE OF SIZES:

Diameter ranging from 1/4" to 6" [6-150 mm]  
Custom size as per buyer's requirements.

#### CODES & SPECIFICATIONS:

ASTM / ASME / AISI / BS / DIN / ISO / IS

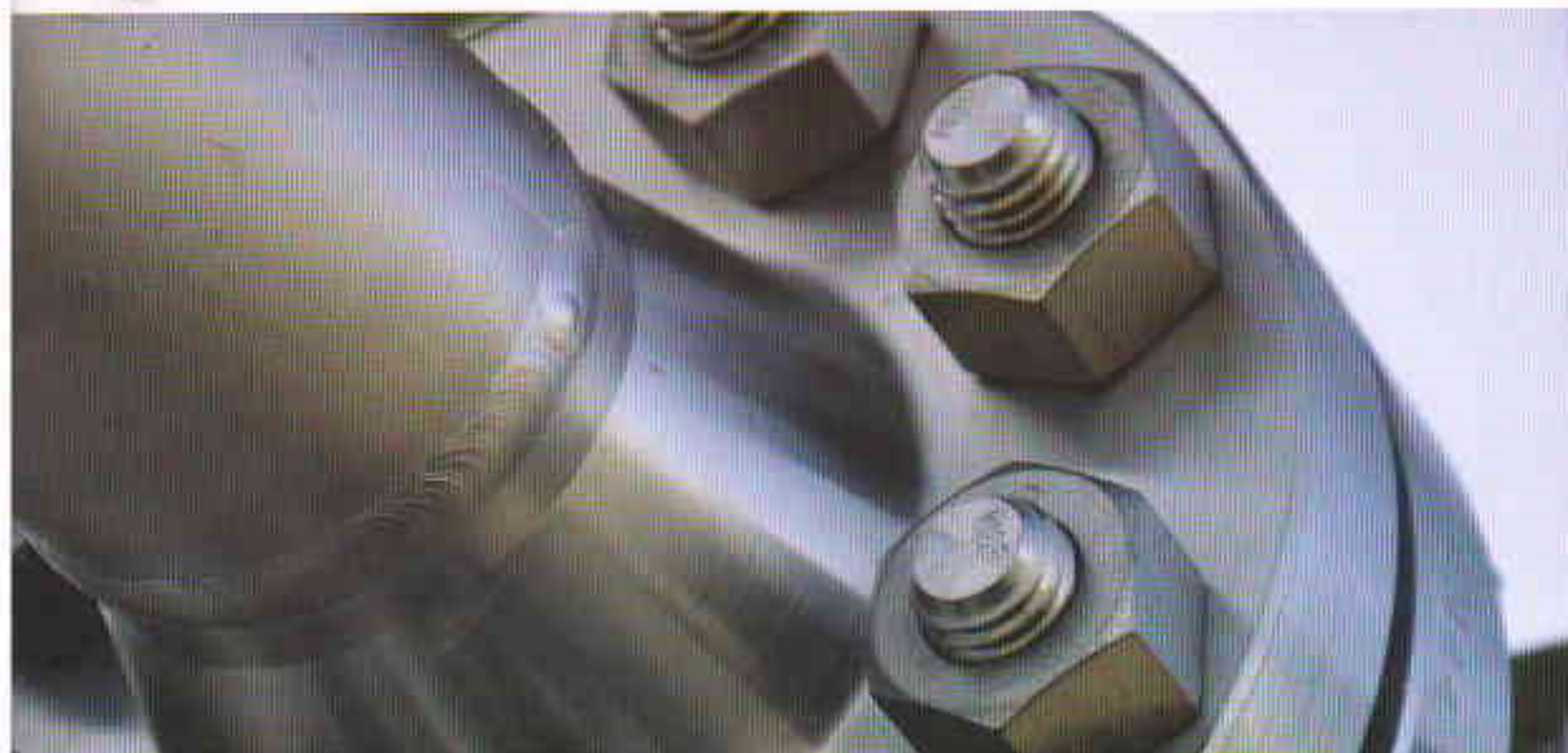
#### RAW MATERIAL:

Carbon Steel, Mild Steel, Alloy Steel, Ferritic & Austenitic Stainless Steel, Exotic Material.

#### SURFACE FINISH:

Self-Finish, Electro Galvanized, Hot-dip Galvanized, Blacodizing, Phosphating, Di-Chromated, P.T.F.E. Coated or any other as per order requirement.

## STUD BOLTS



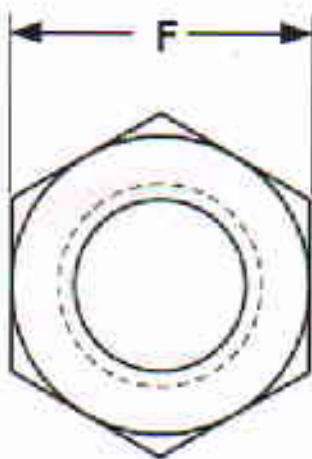




## HEX NUTS

A nut is a type of fastener with a threaded hole. Nuts are almost always used in conjunction with a mating stud / bolt to fasten two or more parts together. The two partners are kept together by a combination of their threads' friction, a slight stretching of the bolt, and compression of the parts to be held together.

At Techbolt we produce the following range of Nuts :



### CATEGORY:

Hex Nuts, Heavy Hex Nuts, Hex Jam Nuts, Heavy Hex Jam Nuts, Square Nuts, Sleeve Nuts, Dome Nuts, Castal Nuts, Lock Nuts and Custom Nuts as per buyer's requirements.

### RANGE OF SIZES:

Diameter ranging from 1/4" to 6" [6-150 mm]  
Custom size as per buyers requirements.

### CODES & SPECIFICATIONS:

ASTM / ASME / AISI / BS / DIN / ISO / IS

### RAW MATERIAL:

Carbon Steel, Mild Steel, Alloy Steel, Ferritic & Austenitic Stainless Steel, Exotic Material.

### SURFACE FINISH:

Self-Finish, Electro Galvanized, Hot-dip Galvanized, Blacodizing, Phosphating, Di-Chromated, P.T.F.E. Coated or any other as per order requirement.

An Anchor Bolt is used to attach objects or structures to concrete. There are many types of Anchor Bolts all consist of threaded end, to which a nut and washer is attached for the external load. Anchor Bolts are extensively used on all types of projects, from standard building to dams, bridges, road, power plants etc.

Type of Anchor Bolts we manufacture:

1. Straight Anchor Bolt one end threaded or both end threaded.
2. J-Type Anchor bolt.
3. Nut welded Anchor Bolts.
4. L-Type Anchor Bolt 90°, 120°, 135°
5. Chemical Anchor also full threaded Stud with one end having 45° cutting.

**CATEGORY:**

L Type, J Type, Plate Welded, Pipe Welded Anchors

**RANGE OF SIZES:**

Nom Dia: 1" to 4" [M12-M100]

\*Tailor made if required.

Length: As Per Standard or upto Any Length

**RAW MATERIAL:**

Carbon Steel, Mild Steel, Alloy Steel, Ferritic & Austenitic Stainless Steel

**SURFACE FINISH:**

Self Color, Hot Dip Galvanized, Electro Galvanized, or any other as per order requirement

**CODES & SPECIFICATIONS:**

ASTM / ASME / BS / DIN / BS EN ISO

## ANCHOR BOLTS

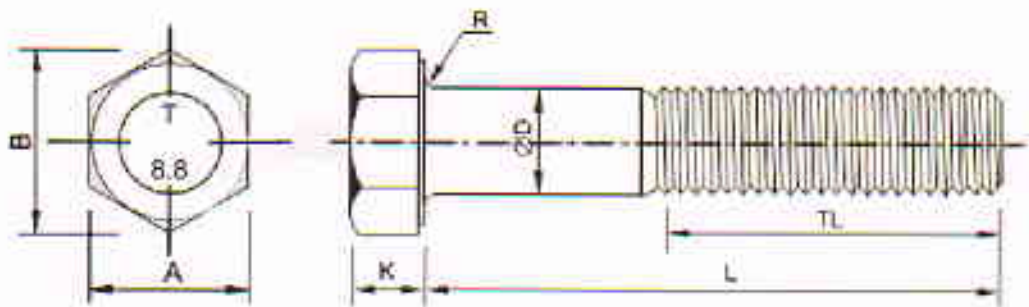




# HEX BOLTS

Hex Bolts (Six Sided Heads) are the industry standard for fasteners with forged heads. Hex Bolts or Hex Screws are usually full threaded or partial/half threaded. Generally they are Hexagonal or Heavy Hexagonal Bolts/Screws where the difference is determined through their Hex head size. At Techbolt we produce the following range of bolts :

## HEXAGONAL HEAD BOLT



Ordering Information: D x L x TL

### CATEGORY:

Full threads, Partial Threads, Heavy Hex High Strength Bolts, Structural Bolts Square Head, Round Head, Machine Head Bolts, Allen Screws, Countersunk Bolts, Custom Bolts as per customers drawing and requirements.

### RANGE OF SIZES:

Diameter ranging from 1/4" to 6" [6-150 mm]  
Custom size as per buyers requirements.

### CODES & SPECIFICATIONS:

ASTM / ASME / AISI / BS / DIN / ISO / IS

### RAW MATERIAL:

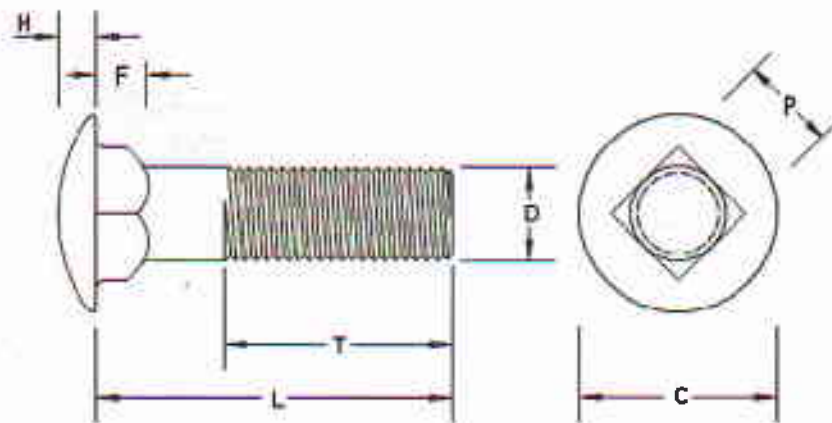
Carbon Steel, Mild Steel, Alloy Steel, Ferritic & Austenitic Stainless Steel, Exotic Material.

### SURFACE FINISH:

Self-Finish, Electro Galvanized, Hot-dip Galvanized, Blacodizing, Phosphating, Di-Chromated, P.T.F.E. Coated or any other as per order requirement.

A Carriage Bolt, also known as a Coach Bolt, has a domed or countersunk head, and the shank is topped by a short square section under the head. The square section grips into the part being fixed (typically wood), preventing the bolt from turning when the nut is tightened.

A rib neck carriage bolt has several longitudinal ribs instead of the square section, to grip into a metal part being fixed.



**CATEGORY:**

Full Threads, Partial Threads, Heavy Hex  
High Strength Bolts, Structural Bolts Square  
Head, Round Head

**RANGE OF SIZES:**

Pipe Size :  
Custom size as per buyer's requirements.

**CODES & SPECIFICATIONS:**

ASTM / ASME / AISI / BS / DIN / ISO / IS

**RAW MATERIAL:**

Carbon Steel, Mild Steel, Alloy  
Steel, Stainless Steel.

**SURFACE FINISH:**

Self-Finish, Electro Galvanized,  
Hot-dip Galvanized, Blacodizing,  
Phosphating, Di-Chromated,  
P.T.F.E. Coated or any other as  
per order requirement.

## CARRIAGE BOLTS



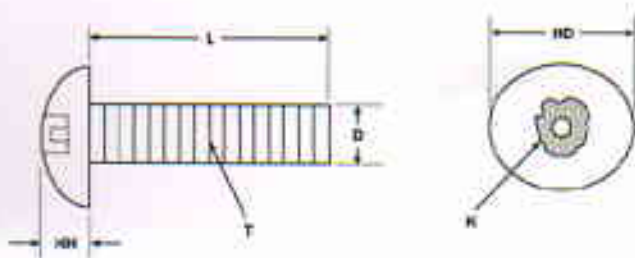




## ANTI-THEFT BOLTS

Techbolt designs and manufactures custom bolts, custom nuts and custom designed screws for security applications. Anti-Theft Bolts are appropriate for various applications in hydraulic valves, pumps, construction, mining and logging. High in strength, these bolts are highly reliable and corrosion resistant. These bolts are considered to be secure and un-crackable. These fasteners are manufactured with the aid of cutting-edge techniques using top quality raw materials.

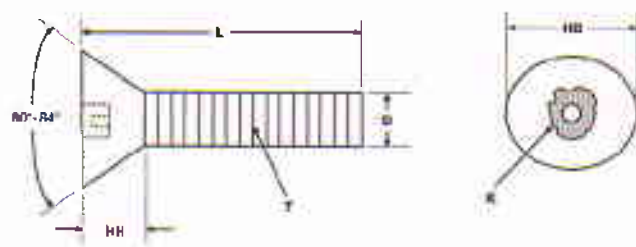
### BUTTON-HEAD MACHINE SCREWS



#### KEY FEATURES :

- Is the only high-security fastener of its kind
- Requires a perfectly manufactured companion key/bit to remove
- The key way is licensed, private, and unique for each user for total "lock" security
- Repels all other security bit tips and common tools
- Is rust-proof, stainless steel
- Provides more grip than any other security bolts and screws on the market.

### FLAT-HEAD MACHINE SCREWS



#### SIZE :

From micro-screws to large bolts, our fasteners come in all sizes.

#### THREADS :

Self-tapping, Concrete, Machine screws, and more

### **TechBolt - Super Duplex/ Duplex Steel:**

Duplex alloys are essentially a compromise possessing some of the ferritic stress corrosion resistance and much of the superior formability of the common austenitic stainless alloys, at a cost saving over the high nickel alloys.

### **The Various Alloys:**

The development of the Duplex stainless steels has continued, graded for their corrosion performance depending on their alloy content. Today, modern duplex stainless steel can be divided into four groups:

- Lean Duplex such as 2304, which contains no deliberate Mo addition.
- 2205, the work-horse grade accounting for more than 80% of duplex usage.
- 25 Cr Duplex such as Alloy 255 and DP-3.
- Super Duplex; with 25-26 Cr and increased Mo and N compared with 25 Cr grades, including grades such as 2507, Zeron 100, UR 52N+, and DP-3W.

### **SUPER HIGH TEMPERATURE RESISTANT BOLT MATERIAL**

This material is considered as suitable for bolts to be used as temperature around 1200° F (650° C) and the material has superior resistance to oxidation and shrinkage. The grades of steel available as per ASTM A453 are Grade 660 (UNS S66286) also known as A-286; 651 (UNS 63198) also known as 19-9 DL; Grade 662 (UNS 66220) also known as Discaloy & Grade 665 (UNS 66545) also known as W545.

Precipitation hardening stainless steels are characterized into one of the three groups based on their final microstructures after heat treatments. The three types are martensite (e.g. 17-4 PH), semi-austenitic (e.g. 17-7 PH) and austenitic (e.g. A-286).

Duplex/Super Duplex steel requires high precision manufacturing hence Techbolt has separate production lines to manufacture them. Techbolt does sample testing from approved laboratory's to ensure we serve our customers genuine quality products.

## **HIGH NICKEL ALLOYS**







## PROCESS

The fasteners at Techbolt are manufactured with state-of-the-art machinery and go through strict quality checks and ensures on time production of our range of products. Our manufacturing unit is well equipped with high-end machines, which undertakes the complete manufacturing process thereby ensuring smooth and defect free production of the products.

Techbolt manufactures various precision fasteners for different environments by leveraging cold forging and cutting technologies that have been cultivated over many years. We deliver high quality products by investigating the most appropriate processing method for each customer's needs.

## CUTTING



Cutting is the first step in the manufacturing process of any fastener. Raw material in the form of round or Hex bar is either saw cut or sheared to the desired length. Bandsaws use saw blades to cut through the steel round bar. On the other hand, shearing equipment functions like a guillotine, "chopping" the raw material. During the shearing operation, the material is automatically run against a stop and then sheared to length.

### **Our Facilities Include :**

- Band Saw Cutting Machine - Abrasive Cutters
- Power Presses - Shearing Machines

## CHAMFERING

Chamfer is a transitional edge between two faces of an object. Chamfering is done on fasteners to create a clearance for easy mating of the threaded parts. We are processing thousands of fasteners through Chamfering everyday.

### **Our Facilities Include:**

Custom Made Chamfering machines designed for Fasteners

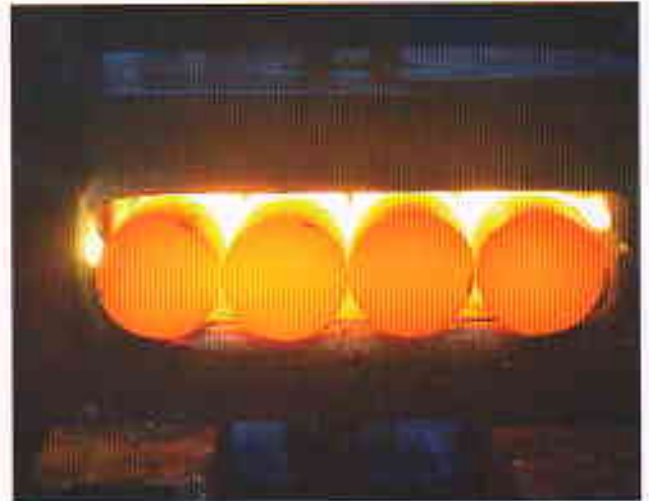


## INDUCTION HEATING

Induction heating is the process of heating an electrically conducting object by electromagnetic induction, through heat generated in the object by eddy currents. An important feature of the induction heating process is that the heat is generated inside the object itself, instead of by an external heat source via heat conduction. Thus objects can be heated very rapidly. This method is used to heat the material for Forging

### **Our Facilities Include:**

- Billet Type Induction Machines of Nuts
- Induction Machines for Bolts



## FORGING

Forging is a manufacturing process involving the shaping of metal using localized compressive forces. It's one of the oldest known metal working processes. Often classified according to the temperature at which it is performed: "cold", "warm", or "hot" forging. Forged parts usually require further processing to achieve a finished part. Forging is essential for the manufacturing of Bolts and Nuts in all shapes.

### **Our Facilities Include:**

- Friction Screw Forging Machines
- Press Type Forging Machines





## SHOT BLASTING



Shot Blasting is a method used to clean & polish metal. It is used to remove the forging scales and provide a smooth even surface for the forged parts. Techbolt believes in a safer environment hence we have installed Shot Blasting machines for surface cleaning.

### **Our Facilities Include:**

Wheel blast type Shot Blasting Machines

## HEAT TREATMENT



Heat treatment is often used in the fastener industry to change the properties of a fastener. Heat treatment is the action that combines heating and cooling operations being applied to a metal or alloy when it is in its solid state. When working with heat-treating fasteners, heat treatment is used to achieve results such as changes in softness, hardness, ductility, stress relief or strength.

### **We can carry out the following Heat Treatments:**

Annealing - Normalizing - Stress Reliving -  
Precipitation Hardening - Quenching and Tempering -  
Solution Heat Treatment - Tempering

## ROLLING



Thread Rolling is a metal rolling process used extensively in manufacturing of screws, bolts and other fasteners. Thread rolling involves forming the threads into the metal of a blank by a pressing and rolling action between two die. The die surfaces hold the shape and the force of the action forms the threads into the material.

Producing threads by this method has several benefits. Forming will harden the metal through cold working, does not waste material by cutting, and produces a favorable grain structure to strengthen the part.

### **Our Facilities Include:**

- Hydraulic Thread Rolling Machines 20 MT  
- Hydraulic Thread Rolling Machines 40 MT

## TAPPING

Tapping is a process used to cut the internal threads for the nuts. We at Techbolt are consistently ensuring our Nut will pass the Go/No Go Gauge. At Techbolt we are regularly Tapping & Over Tapping Nuts.

### **Our Facilities Include:**

We have several semi-Automated Vertical Nut Tapping Machines.



## HOT-DIP GALVANIZATION

Hot-dip galvanization is a form of galvanization. It is the process of coating iron and steel with a layer of zinc by immersing the metal in a bath of molten zinc at elevated. When exposed to the atmosphere, the pure zinc ( $\text{Zn}$ ) reacts with oxygen ( $\text{O}_2$ ) to form zinc oxide ( $\text{ZnO}$ ), which further reacts with carbon dioxide ( $\text{CO}_2$ ) to form zinc carbonate ( $\text{ZnCO}_3$ ), a usually dull grey, fairly strong material that protects the steel underneath from further corrosion.

### **Our Facilities Include:**

In house Hot-Dip Galvanizing plant designed to provide quality galvanized bolts.



## INSPECTION

Being a key element of quality control, Product Inspections allows us to verify product quality on site at different stages of the production process and prior to its dispatch. Inspecting your product before it leaves our premises is an effective way of preventing quality problems and supply chain disruptions further down the line. Our inspections comprehensive test criteria covers product function, performance, overall appearance and dimensions. We provide in-house mechanical, hardness and PMI Testing.

Material Test Certificate as per EN 10204 3.1 is provided upon delivery.

3.2 Certification is provided on client's request.

Complete traceability of all material can be obtained.







# HEALTH & SAFETY

## RESPONSIBILITIES

### Factory Manager

Ensuring that all necessary measures are taken in order to maintain an acceptable standard of safety.

Ensuring that all legal and statutory norms are met (i.e. any rule or regulation or instruction from the enforcing agencies). Ensuring the operation is performed in safe manner with correct tools and equipment.

### Production Supervisor

Familiar with the company safety policy. Ensure's that the workforce under their control observe all safety rules. Maintain good housekeeping throughout facility at all times.

### Factory Employees

Conform to safe work practices. Conform to instructions given by supervisor. Report any defect to the supervisor immediately.

### Personnel Protective Equipment

Safety Shoes are provided to prevent any serious injuries. Eye protection is provided and worn while working on the lathe. Gloves are worn whenever handling objects.

### House Keeping

All the passage ways are kept free of all materials and obstructions of any kind. Spillage of oil or any other substance is immediately cleaned up.

### Fire Procedure

Flammable material is not allowed to be accumulated. Smoking is not allowed in the office or factory premises. Fire extinguishers and accessories are located through out the factory.

### General Arrangement

- First Aid
- Fire Precaution
- Welfare
- Electricity
- Personnel Protective Equipment

In order to smoothen the purchase process for our customers we have launched an Android App and Web-based application. The application is specially designed for fastener industry and our customers can now quickly check out stocks, get rates and place orders through this app. This web app works on any device like a desktop, laptop, tablet and even phone. Web application is also independent of the operating system.

### KEY FEATURES:

#### Designed especially for fasteners such as:

- a) Studs                      b) Bolts                      c) Nuts
- d) Washers                e) Sets / Assemblies of the above

#### Quick Capture of your requirement:

- a) You can either quickly type in your requirement using the specially designed screen for quick capture.
- b) Or you can simple upload your requirement in a spreadsheet like Excel.

#### Instant Stock Check:

- a) Know whether your requirement is available in stock instantly.

#### Quotation:

- a) The software also displays the rate of the items along with availability.
- b) You can easily convert your requirement into quotation if stock is not available. Our team will immediately get in touch with you to indicate the possible date of fulfilment.

#### Order Booking:

- a) Book your order once you confirm the rates instantly.
- b) An SMS alert is sent as a confirmation of your order.

#### Order Status:

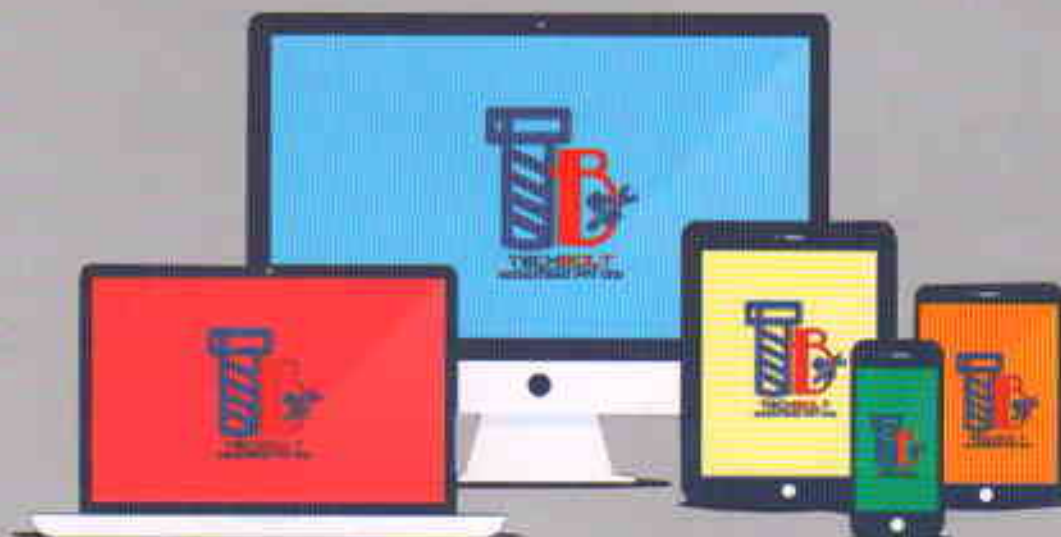
- a) Check order status in real time using this app.

#### Easy and Attractive Interface:

- a) The software has been developed using the state of the art technology.
- b) It is very fast and easy to use.
- c) It comes with an attractive dashboard and pleasant user interface as well.
- d) Know whether your requirement is available in stock instantly.



## THE TECHBOLT APP







## CONTACT US

### **CORPORATE OFFICE**

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### **MANUFACTURING UNIT**

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Taluka Mangaon, Dist. Raigad,  
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**COLLABORATED WITH**



Web: [www.americanmetalfasteners.com](http://www.americanmetalfasteners.com) | Email: [info@americanmetalfasteners.com](mailto:info@americanmetalfasteners.com)