

# TUHU FASTENERS PRODUCT CATALOG



## TUHU FASTENERS & MANUFACTURING INC.

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# T A B L E O F C O N T E N T S

## 01. About TUHU Fasteners

## 02. Our Products

### 2-1. Headed Bolts

### 2-2. Nuts

### 2-3. Washers

### 2-4. Threaded Rods & Bent Bolts

### 2-5. Anchor Bolts & Anchor Rods

### 2-6. Screws

### 2-7. Specialty Fasteners

### 2-8. Product Category Overview

## 03. Fastener Coating Options

## 04. Fastener Packaging Methods

## 05. Industries We Serve

Click section titles to navigate. Use “**Back to Index**” links to return here anytime.

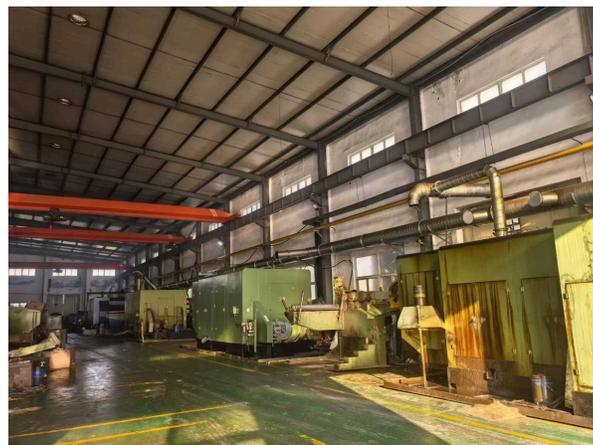


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## A B O U T T U H U F A S T E N E R S

- TUHU Fasteners is a trusted fastener manufacturer with production facilities in Ningbo, China. Our factory is located in one of Ningbo's most advanced industrial parks and covers over 3.45 acres, with full in-house capabilities for high-volume production and strict quality control to ensure consistent, reliable performance in every shipment.



- We specialize in industrial-grade fasteners, including bolts, nuts, washers, threaded rods, and specialty components. All products are manufactured to meet ASTM, SAE, ISO, and other international standards, and are backed by rigorous inspection and testing protocols. With over a decade of export experience, we proudly serve infrastructure, construction, and OEM clients across North America, Europe, and Australia.

- What we stand for is simple, at TUHU, we believe that “Made in China” should stand for precision, durability, and trust. Our mission is to deliver high-quality fasteners that reflect the strength of modern Chinese manufacturing—connecting customers worldwide with reliable fastening solutions they can count on. From your first inquiry to final delivery, we're with you every step of the way.



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[Back to Index](#)

## O U R P R O D U C T S

TUHU Fasteners manufactures a complete range of industrial fasteners—including bolts, nuts, rods, washers, screws and specialty components—engineered to meet ASTM and international standards.

From structural anchoring to utility and infrastructure (Highway and Railway) support, our product categories are built to perform where strength and reliability matter most.



### **Headed Bolts**

Hex Bolts, Structural Bolts, Rail Bolts, Guardrail Bolts for industrial applications



### **Nuts**

Hex Nuts, Heavy Hex, Coupling, Lock Nuts paired with bolts and rods



### **Threaded Rods**

Fully or Partial Threaded Rods, Studs, Square Studs



### **Washers**

Flat Washers, Hardened Washers, Square & Ogee



### **Bent Bolts**

J-Bolts, Eye Bolts, J Hooks, U Bolts, and more.



### **Screws**

Self-drilling, Wood, Drywall, Chipboard, Machine, Hex Lag Screws and more



### **Anchor Bolts & Anchor Rods**

Embedded anchor bolts and foundation rods for concrete and base plate connections.



### **Specialty Fasteners**

Turnbuckles, Anchor Plates, Sign Posts and more.



## H E A D E D B O L T S

TUHU supplies a wide range of industrial bolts, including hex head, structural, and machine bolts. Manufactured to ASTM, SAE, DIN and ISO standards, our bolts are available in various sizes, grades, and coatings to meet the demands of construction, infrastructure, and heavy equipment applications.

### ◆ Available Grades & Mechanical Properties

Grade / Spec	Yield Strength	Tensile Strength	Size Range
ASTM A307 Grade A	36 ksi (248 MPa)	60–100 ksi	1/4" – 4"
ASTM A325 / A490 (F3125)	92–130 ksi min	120–150 ksi min	1/2" – 1-1/2"
ASTM A394	50–105 ksi	80–125 ksi	1/2" – 1"
ASTM A354 (Grade BC/BD)	105–150 ksi	125–170 ksi	1/4" – 2-1/2"
ASTM A449	90 ksi min	120 ksi min	1/4" – 1-1/2"
ASTM A193 Grade B7	105 ksi	125 ksi	1/4" – 2-1/2"
SAE Grade 2 / 5 / 8	Varies by grade	Up to 150 ksi	1/4" – 2"
DIN 933 / ISO 4014	Metric standard	–	M6 – M64
AISI 1035 / 1045	60–85 ksi (annealed)	75–100 ksi (approximate)	1/4" – 2" (machined)

### ◆ Compatible Hardware

Bolt Grade	Recommended Nut	Washer
A307 / SAE 2	ASTM A563 Grade A	Flat Washer (DIN 125)
A325 / A490	ASTM A563 DH or A194 2H	ASTM F436 Hardened
A193 B7	A194 2H	Hardened Washer
Metric Grades	DIN 934 / ISO 4032	DIN 125 / DIN 6916



## B O L T   T Y P E S

	<p><b>Hex Bolts</b> Standard hex head bolts used in general fastening applications.</p>		<p><b>Structural Bolts</b> High-strength bolts for steel-to-steel connections in construction.</p>		<p><b>Socket Cap Screws</b> Cylindrical head bolts used in precision machinery.</p>
	<p><b>Heavy Hex Bolts</b> Larger head size bolts for heavy structural and anchoring work.</p>		<p><b>Timber Bolts</b> Bolts with large domed heads, designed for timber and marine use.</p>		<p><b>Shoulder Bolts</b> Bolts with a cylindrical shoulder, ideal for pivot points.</p>
	<p><b>Square Head Bolts</b> Traditional square head bolts for restoration and utility applications.</p>		<p><b>Track/ Rail Bolts</b> Bolts for securing rails to tie plates or crane base structures in track systems.</p>		<p><b>Step Bolts</b> Wide-head bolts used for climbing access on utility poles and towers.</p>
	<p><b>Round Head Bolts</b> Smooth domed head bolts for finished appearance or safety.</p>		<p><b>Guardrail Bolts</b> Specialty bolts for highway guardrail splice connections.</p>		<p><b>Carriage Bolts</b> Domed head with square neck, ideal for wood or metal jointing.</p>
	<p><b>Washer Head Bolts</b> Bolts with integrated washer heads to increase bearing surface.</p>		<p><b>Countersunk Bolts</b> Flat head bolts for flush surface installation.</p>		<p><b>Machine Bolts</b> Fully or partially threaded bolts for machinery and base plates.</p>
	<p><b>Hex Flange Bolts</b> Hex bolts with flange for better load distribution without separate washer.</p>		<p><b>T-Head Bolts</b> T-shaped head bolts used in slots or machine fixtures.</p>		<p><b>Eye Bolts</b> Bolts with a looped head for lifting or tie-down points.</p>
	<p><b>Plow Bolts</b> Countersunk bolts for wear plates in heavy equipment and blades.</p>		<p><b>Tension Control Bolts</b> Pre-assembled structural bolts with twist-off spline.</p>		<p><b>Fish Bolts</b> Bolts used with fishplates to join rail sections in heavy rail and transit systems.</p>



## N U T S

From hex and heavy hex to flange, lock, and coupling nuts, our product line covers the most commonly used fastening solutions across construction, infrastructure, and heavy industry. Each nut is engineered to pair seamlessly with standard bolts, rods, and specialty hardware—ensuring consistent performance under demanding conditions.

### ◆ Available Grades & Sizes

Specification	Typical Grades	Thread Type	Size Range
ASTM A563	Grade A, C, DH, DH3, Heavy Hex	UNC / UNF	1/4" – 4"
ASTM A194	Grade 2H, 7, 8, 8M	UNC / 8UN / UNJ	1/2" – 2-1/2"
ASTM F594 (Stainless)	All series	UNC / UNF	1/4" – 1-1/2"
SAE J995	Grade 2 / 5 / 8	UNC	1/4" – 2"
DIN 934 / ISO 4032	Class 6 / 8 / 10 / 12	Metric (Coarse / Fine)	M4 – M80
DIN 6334 / ISO 4035	Coupling / Jam / Thin types	Metric / UNC / UNF	1/4" – 2-1/2"

### ◆ Compatible Hardware

Nut Type	Matching Bolt / Rod	Recommended Washer
Hex / Heavy Hex Nuts	Hex Bolts, Structural Bolts	F436, DIN 125, Flat Washers
Lock Nuts (Nylon / All Metal)	Hex Bolts, Machine Bolts	DIN 125, split lock washer
Flange Nuts	Hex Head, Flange Bolts	Not required (built-in flange)
Coupling Nuts	Threaded Rods, Studs	Not applicable
Jam / Recessed Nuts	Hex Bolts, machine shafts	DIN 125 or DIN 433 thin washer
Castle / Slotted Nuts	Axle bolts, cotter pin bolts	Plain washer + cotter pin



## N U T S

◆ Compatible Hardware (sorted by nut grade)

Nut Grade	Recommended Bolt / Rod	Washer
<b>ASTM A563 Grade A</b>	ASTM A307 Bolts, SAE Grade 2 Bolts	Flat Washer (DIN 125)
<b>ASTM A563 Grade C</b>	ASTM A325 Bolts, A354 BC Bolts	ASTM F436 Hardened Washer
<b>ASTM A563 Grade DH</b>	ASTM A490 Bolts, A354 BD Bolts	ASTM F436 Hardened Washer
<b>ASTM A194 Grade 2H</b>	ASTM A193 B7 Bolts, Studs	F436 or Hardened Flat Washer
<b>ASTM A194 Grade 7 / 8</b>	High-temp bolts, alloy studs	As specified by project
<b>DIN 934 / ISO 4032</b>	DIN 933 / ISO 4014 Metric Bolts	DIN 125, DIN 6916
<b>DIN 6334 / ISO 4035</b>	Threaded Rods, Studs	Not required
<b>Jam Nuts / Thin Nuts</b>	Hex Bolts, Machine Bolts (locking use)	DIN 125 / Thin Washer
<b>Nylon / All-Metal Lock Nuts</b>	Hex Bolts, Machine Bolts	Split Lock Washer, Flat Washer
<b>Castle / Slotted Nuts</b>	Cotter Pin Bolts, Axle Bolts	Plain Washer + Cotter Pin



## N U T T Y P E S

	<p><b>Hex Nuts</b> Standard six-sided nuts for general-purpose fastening.</p>		<p><b>Heavy Hex Nuts</b> Oversized hex nuts used with structural bolts or high-strength connections.</p>		<p><b>Recessed Nuts</b> Shallow nuts with countersunk faces for clearance-limited or flush installations.</p>
	<p><b>Square Nuts</b> Four-sided nuts often used in restoration, rail, or utility applications.</p>		<p><b>Lock Nuts</b> Nuts with built-in locking features for vibration resistance.</p>		<p><b>Nylon Lock Nuts</b> Lock nuts with nylon inserts to prevent loosening under vibration.</p>
	<p><b>Hex Jam Nuts</b> Thin-profile nuts used for jamming or in tight clearance applications.</p>		<p><b>Hex Coupling Nuts</b> Long hex nuts used to connect two threaded rods or studs.</p>		<p><b>Cap Nuts</b> Domed nuts that protect exposed bolt threads and offer a finished look.</p>
	<p><b>Castle Nuts</b> Slotted nuts used with cotter pins for locking assemblies.</p>		<p><b>Flange Nuts</b> Nuts with a built-in washer base for better load distribution.</p>		

“Some say a nut is just a nut—what’s the difference?”

We say: one nut connects a rod, eight nuts secure a beam, a hundred hold up a structure. Millions hold up the world.

Like a single drop of water is to the ocean, each nut is part of something greater.”



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[Back to Index](#)

## W A S H E R S

TUHU Fasteners provides a full range of industrial washers designed to support bolt tension, prevent loosening, and protect joint surfaces. From flat washers to specialty types like hardened, square, and conical styles, our products help ensure fastener integrity across construction, steelwork, and machinery applications.

### ◆ Available Specs & Sizes

Washer Type	Specification	Typical Thickness	Size Range
Standard Flat Washers	DIN 125 / ISO 7089	1.6 – 5.0 mm	1/4" – 4" / M6 – M100
Square Washers	DIN 436	4.0 – 10.0 mm	1/2" – 1-1/2"
Round Plate Washers	Custom / Fabricated	3.0 – 8.0 mm	1/2" – 2"
Lock Washers (Split)	DIN 127 / ASME B18.21	1.2 – 4.0 mm	1/4" – 2" / M6 – M48
Tooth Lock Washers	DIN 6798	0.5 – 2.0 mm	M4 – M24
Wave Washers	–	0.5 – 1.5 mm	M5 – M20



## W A S H E R S

### ◆ Compatible Hardware

Washer Type	Paired Hardware	Function
Standard Flat Washers	Hex Bolts / Machine Bolts + Hex Nuts	Distributes load, protects surfaces
Square Washers	Anchor Bolts / Bent Rods	Prevents pull-through in concrete/wood
Round Plate Washers	Foundation Bolts / Large Rods	Structural base reinforcement
Lock Washers (Split)	Machine Bolts / Lock Nuts	Resists vibration, prevents loosening
Tooth Lock Washers	Small Screws / Electrical Fasteners	Biting action for metal-to-metal contact
Wave Washers	Bearings / Preloaded Assemblies	Absorbs vibration, maintains tension



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[Back to Index](#)

## W A S H E R T Y P E S

	<p><b>Standard Washers</b> General-purpose round washers used to spread load and protect joint surfaces.</p>		<p><b>Round Plate Washers</b> Thicker round washers for foundation or structural plate reinforcement.</p>		<p><b>Square Washers</b> Four-sided washers used with anchor bolts or timber construction.</p>
	<p><b>Square Plate Washers</b> Large square washers for concrete embedment or oversized holes.</p>		<p><b>Lock Washers</b> Split-type washers that prevent nuts and bolts from loosening under vibration.</p>		<p><b>Tooth Lock Washers</b> Internal or external tooth washers that grip mating surfaces for anti-rotation.</p>
	<p><b>Wave Washers</b> Curved profile washers designed to absorb axial movement or thermal expansion.</p>				



## T H R E A D E D   R O D S   &   B E N T   B O L T S

TUHU manufactures a complete range of threaded rods and precision-formed bent bolts for anchoring, bracing, and support applications. From straight studs to custom L, J, U, or eye-shaped bends, each piece is crafted with accurate threading, consistent strength, and reliable performance in field installations.

### ◆ Available Specs & Sizes

Product Type	Specification	Thread Options	Size Range
Anchor Rods	ASTM F1554 (Gr 36 / 55 / 105)	UNC / UN8	1/2" – 4" dia, up to 144"
Fully Threaded Rods	ASTM A193 B7, A307, A36	UNC / UNF / Metric	1/4" – 2-1/2"
Partial Threaded Rods	ASTM A449, A354	UNC / UNF	1/2" – 2"
Studs	ASTM A193 B7, A320, A354	Double-End / Tap-End	1/4" – 2-1/2"
Square Studs	Custom Spec	UNC	3/8" – 1-1/2"
J Bolts	ASTM F1554 / Custom	UNC	1/2" – 1-1/2", up to 60"
U-Bolts (Round / Square)	Custom Spec / A36	UNC / Partial	1/2" – 1-1/4", custom leg
Eye Bolts (Open/Closed)	A307 / A193 / Custom	UNC	3/8" – 1", std or forged
Hooks / L / 90° Bolts	Custom Bending Spec	UNC	1/2" – 1-1/2", formed

*Custom bends, plate welding, hot-dip galvanizing, and metric sizing available upon request.*



## T H R E A D E D   R O D S   &   B E N T   B O L T S

### ◆ Compatible Hardware

Rod / Bent Bolt Type	Recommended Nut	Washer	Usage Notes
Anchor Rods / J-Bolts	ASTM A563 DH / A194 2H	F436 Hardened Washer	For embedment with base plate
Fully Threaded / Studs	Hex Nut (Grade A / 2H)	Flat Washer / Lock Washer	General bracing and mechanical joints
U-Bolts (Round / Square)	Hex Nuts + Lock Nuts	Flat Washer	Pipe support or framing clamps
Eye Bolts / Hook Bolts	Hex Nut / Flange Nut (optional)	Flat Washer	Used for hanging or support systems
Square Studs	Square or Heavy Hex Nut	Square Plate Washer	Utility and telecom installations
L-Bolts / 90° Anchor Bolts	Hex Nut (ASTM A563 DH)	F436 or Square Washer	Foundation and concrete embedded bends

### ◆ Material Grades – Strength & Composition Overview

Grade / Spec	Yield Strength	Tensile Strength	C	Mn	P	S
ASTM A307	36 ksi	60–100 ksi	≤ 0.25	≤ 0.90	≤ 0.04	≤ 0.05
ASTM F1554 Gr.55	55 ksi	75–95 ksi	0.25–0.35	0.60–1.35	≤ 0.04	≤ 0.05
ASTM F1554 Gr.105	105 ksi	125–150 ksi	0.28–0.50	0.60–0.95	≤ 0.035	≤ 0.040
ASTM A449	90 ksi min	120 ksi min	0.20–0.50	0.60–0.90	≤ 0.035	≤ 0.040
ASTM A354	105 ksi	125–170 ksi	0.30–0.48	0.60–1.35	≤ 0.035	≤ 0.040
ASTM A193 B7	105 ksi	125 ksi	0.40–0.50	0.75–1.00	≤ 0.035	≤ 0.040



## T H R E A D E D   R O D   &   B E N T   B O L T   T Y P E S

	<p><b>Anchor Rods</b> Threaded rods used in concrete foundations to secure structural elements.</p>		<p><b>Fully Threaded Rods</b> Continuous-thread rods used for bracing, tensioning, or field cutting.</p>		<p><b>Partial Threaded Rods</b> Rods with threaded ends and smooth shank in between, used for alignment.</p>
	<p><b>Studs</b> Short rods threaded on both ends, often used with flanges or fittings.</p>		<p><b>Square Studs</b> Rods with square body sections for tamper resistance or locking.</p>		<p><b>J Bolts</b> J-shaped anchor bolts used in concrete embedding or pole base installations.</p>
	<p><b>90° Anchor Bolts</b> L-shaped anchor bolts with a 90° bend, commonly embedded in foundations.</p>		<p><b>Open Eye Bolts</b> Bolts with open loop ends for tie-down, wire rope, or hanging hardware.</p>		<p><b>Closed Eye Bolts</b> Fully closed-loop bolts used for lifting, suspension, or anchoring.</p>
	<p><b>Round U-Bolts</b> U-shaped bolts with threaded legs, used to clamp pipes or secure tubing.</p>		<p><b>Square U-Bolts</b> Square-shaped U-bolts designed for rectangular profiles or framing.</p>		<p><b>J/Square Hooks</b> J/H-shaped hooks for hanging or angled tension connections.</p>

*All items available in plain, or hot-dip galvanized finishes.*



## A N C H O R   B O L T S   &   A N C H O R   R O D S

Our facilities provides a full range of anchor bolts and anchor rods designed for cast-in-place and post-installed foundation connections. Built to meet ASTM F1554 and other international standards, our anchor products are available in straight, bolted, and 90° bent styles, and in multiple grades, threads, and finishes for structural and industrial projects. Optimized for supply chain agility with a strategic 1,000KG MOQ to offset trade friction.

### ◆ Available Specs & Sizes

Spec / Grade	Material Type	Typical Use Case	Thread Type	Size Range
ASTM F1554 Gr.36	Carbon Steel	Standard foundation anchoring	UNC / UN8	1/2" – 4"
ASTM F1554 Gr.55	Weldable Carbon Steel	Base plates, custom fabrication	UNC / UN8	1/2" – 4"
ASTM F1554 Gr.105	Quenched & Tempered Alloy	High-load structural use	UNC	1/2" – 3"
ASTM A307 Grade C	Low Carbon Structural Steel	Non-critical anchoring	UNC	1/2" – 2-1/2"
ASTM A36	Carbon Steel Plate Spec	Used for base plates or bent rods	UNC / Metric	1/2" – 2"
ASTM A193 B7	Alloy Steel (Cr-Mo)	Industrial, heat-resistant systems	UNC / UNF	1/2" – 2-1/2"
ASTM A320 L7	Alloy Steel (Low Temperature)	Cold weather & wind tower anchoring	UNC / UNF	1/2" – 2"
ASTM A354 (BC / BD)	Medium Alloy Steel	Tension-critical, high strength	UNC	1/2" – 2-1/2"
ASTM A449	Quenched & Tempered Steel	Custom anchor rods	UNC	1/2" – 2-1/2"
ASTM F593	Stainless Steel (300 series)	Corrosive or exposed environments	UNC / Metric	1/2" – 1-1/2"

DIN/ISO Metric Series (M8 - M64) Available



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[Back to Index](#)

# ANCHOR BOLTS & ANCHOR RODS

## ◆ Compatible Hardware

Anchor Spec	Recommended Nut(s)	Recommended Washer(s)	Notes
F1554 Gr.36 / 55	ASTM A563 Grade A	ASTM F436	General foundation use
F1554 Gr.105	ASTM A563 DH / A194 2H	F436 Hardened	Heat-treated, not weldable.
A193 B7 / A354 BD	A194 Grade 2H / A563 DH	ASTM F436 / Flat Washer	High-load/industrial
A320 L7	A194 Grade 4 or 7 (low-temp)	F436 (low temp certified)	Cold weather spec
A449	A563 DH or A194 2H	Hardened Washer	Bridge and highway use
F593 (Stainless)	Stainless 304 / 316 Hex Nuts	Stainless Flat Washer / F436 Type 3	Coastal or corrosive
A307 / A36	A563 Grade A	Flat Washer	Non-critical general use

## ◆ Coating Options



Most anchor bolts and rods supplied by TUHU are hot-dip galvanized (HDG) for optimal corrosion resistance in concrete and outdoor applications. Other finishes such as plain, mechanical zinc, or stainless are available depending on project needs.

## MAIN MATERIALS & STRENGTH GUIDE

CARBON STEEL	ALLOY STEEL
<ul style="list-style-type: none"> <li>● ASTM A36</li> </ul>	<ul style="list-style-type: none"> <li>● ASTM A193 B7</li> </ul>
<ul style="list-style-type: none"> <li>● ASTM A307 BOLTS</li> </ul>	<ul style="list-style-type: none"> <li>● ASTM F1554 GR. 105 HIGH-STRENGTH ANCHOR RODS</li> </ul>
<ul style="list-style-type: none"> <li>● ASTM F1554 GR. 36 / 55 ANCHOR RODS</li> </ul> <p>Common steel for standard strength bolts, rods, and plates</p>	<p>High strength steel for demanding bolts and anchor rods.</p>



## A N C H O R   B O L T S   &   A N C H O R   R O D

	<p><b>Straight Anchor Rods</b> Fully or partially threaded rods embedded in concrete foundations to support base plates or structural columns.</p>		<p><b>Headed Anchor Bolt</b> Straight anchor bolts with forged or welded heads to resist pull-out in structural bases.</p>		<p><b>L-Bolts (90° Anchor Bolts)</b> Bent anchor rods with a 90° leg for secure embedment in cast-in-place concrete.</p>
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### ◆ Engineer's Quick Size Reference

Diameter (inch)	Thread Pitch (UNC)	Typical Grades
1/2"	13 TPI	A307, F1554 Gr.36, A36
5/8"	11 TPI	A307, F1554 Gr.36/55, A449
3/4"	10 TPI	F1554 Gr.36/55, A354 BC, A193 B7
7/8"	9 TPI	F1554 Gr.55, A449, A354 BD
1"	8 TPI	F1554 Gr.55/105, A193 B7, A354 BD
1-1/4"	7 TPI	F1554 Gr.105, A193 B7, A320 L7
1-1/2"	6 TPI	F1554 Gr.105, A193 B7, A354 BD, F593
2"	4.5 TPI	A193 B7, A320 L7, F1554 Gr.105
2-1/2"	4 TPI	A193 B7 (coarse), custom order
3"	3 TPI	F1554 Gr.105 (limit), custom only
4"	—	Available by request (F1554-36/55 only)

Optional 8UN constant pitch series available for sizes exceeding 1-1/8"



◆ **Metric** Size Guide for Hex Head Anchor Bolts

**Standards:** DIN 931 (Partial Thread) / DIN 933 (Full Thread) / ISO 4014

**Application:** Heavy Infrastructure, Industrial Foundations, and Structural Steel Framing.

Thread Size (d)	Pitch (P)	Head Width (s)	Head Height (k)	Min. Thread Length (b)	Available Lengths (L)
M8	1.25 mm	13 mm	5.3 mm	22 mm	40mm – 200mm
M10	1.50 mm	17 mm	6.4 mm	26 mm	50mm – 300mm
M12	1.75 mm	19 mm	7.5 mm	30 mm	60mm – 450mm
M14	2.00 mm	22 mm	8.8 mm	34 mm	70mm – 500mm
M16	2.00 mm	24 mm	10.0 mm	38 mm	80mm – 600mm
M18	2.50 mm	27 mm	11.5 mm	42 mm	80mm – 600mm
M20	2.50 mm	30 mm	12.5 mm	46 mm	100mm – 800mm
M22	2.50 mm	32 mm	14.0 mm	50 mm	120mm – 800mm
M24	3.00 mm	36 mm	15.0 mm	54 mm	150mm – 1000mm
M27	3.00 mm	41 mm	17.0 mm	60 mm	200mm – 1000mm
M30	3.50 mm	46 mm	18.7 mm	66 mm	200mm – 1200mm
M33	3.50 mm	50 mm	21.0 mm	72 mm	250mm – 1500mm
M36	4.00 mm	55 mm	22.5 mm	78 mm	300mm – 1500mm
M39	4.00 mm	60 mm	25.0 mm	84 mm	400mm – 1500mm
M42	4.50 mm	65 mm	26.0 mm	90 mm	400mm – 2000mm
M48	5.00 mm	75 mm	30.0 mm	102 mm	500mm – 2500mm
M56	5.50 mm	85 mm	35.0 mm	118 mm	600mm – 3000mm
M64	6.00 mm	95 mm	40.0 mm	134 mm	800mm – 4000mm



◆ **Metric** Size Guide for Threaded Anchor Rods

**Standards:** DIN 975 (Standard lengths) / DIN 976-1 (Cut-to-length studs)

Thread Size (d)	Pitch (P)	Standard Lengths (L)	Weight (approx. kg/m)	Recommended Nut
<b>M8</b>	1.25 mm	1000 / 2000 / 3000 mm	0.32 kg	DIN 934 M8
<b>M10</b>	1.50 mm	1000 / 2000 / 3000 mm	0.50 kg	DIN 934 M10
<b>M12</b>	1.75 mm	1000 / 2000 / 3000 mm	0.73 kg	DIN 934 M12
<b>M14</b>	2.00 mm	1000 / 2000 / 3000 mm	0.98 kg	DIN 934 M14
<b>M16</b>	2.00 mm	1000 / 2000 / 3000 mm	1.33 kg	DIN 934 M16
<b>M18</b>	2.50 mm	1000 / 2000 / 3000 mm	1.65 kg	DIN 934 M18
<b>M20</b>	2.50 mm	1000 / 2000 / 3000 mm	2.08 kg	DIN 934 M20
<b>M22</b>	2.50 mm	1000 / 2000 / 3000 mm	2.54 kg	DIN 934 M22
<b>M24</b>	3.00 mm	1000 / 2000 / 3000 mm	3.00 kg	DIN 934 M24
<b>M27</b>	3.00 mm	1000 / 2000 / 3000 mm	3.85 kg	DIN 934 M27
<b>M30</b>	3.50 mm	1000 / 2000 / 3000 mm	4.75 kg	DIN 934 M30
<b>M33</b>	3.50 mm	1000 / 2000 / 3000 mm	5.90 kg	DIN 934 M33
<b>M36</b>	4.00 mm	1000 / 2000 / 3000 mm	7.00 kg	DIN 934 M36
<b>M39</b>	4.00 mm	1000 / 2000 / 3000 mm	8.30 kg	DIN 934 M39
<b>M42</b>	4.50 mm	1000 / 2000 / 3000 mm	9.60 kg	DIN 934 M42
<b>M45</b>	4.50 mm	1000 / 2000 / 3000 mm	11.2 kg	DIN 934 M45
<b>M48</b>	5.00 mm	1000 / 2000 / 3000 mm	12.6 kg	DIN 934 M48
<b>M52</b>	5.00 mm	1000 / 2000 / 3000 mm	15.0 kg	DIN 934 M52
<b>M56</b>	5.50 mm	1000 / 2000 / 3000 mm	17.5 kg	DIN 934 M56
<b>M64</b>	6.00 mm	1000 / 2000 / 3000 mm	23.0 kg	DIN 934 M64



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**[Back to Index](#)**

### ◆ Metric Size Guide for L-Shape Anchor Bolts

**Standard Reference:** DIN 529 (Modified) / ISO 898-1

**Applications:** Concrete Foundations, Column Bases, Light Poles, and Heavy Machinery Mounting.

Thread Size (d)	Pitch (P)	Straight Length (L)	Thread Length (b)	Bend Length (e)	Min. Bend Radius (r)
M10	1.50 mm	150 – 400 mm	50 – 80 mm	50 mm	10 mm
M12	1.75 mm	200 – 500 mm	60 – 100 mm	50 mm	12 mm
M16	2.00 mm	250 – 600 mm	80 – 120 mm	65 mm	16 mm
M20	2.50 mm	300 – 800 mm	100 – 150 mm	80 mm	20 mm
M24	3.00 mm	400 – 1000 mm	120 – 200 mm	100 mm	24 mm
M27	3.00 mm	450 – 1100 mm	130 – 220 mm	110 mm	27 mm
M30	3.50 mm	500 – 1200 mm	150 – 250 mm	120 mm	30 mm
M36	4.00 mm	600 – 1500 mm	180 – 300 mm	150 mm	36 mm
M42	4.50 mm	700 – 1800 mm	200 – 350 mm	180 mm	42 mm
M48	5.00 mm	800 – 2000 mm	250 – 400 mm	200 mm	48 mm

Feature	Reference Standard	Performance Details / TUHU Advantage
Property Classes	ISO 898-1	PC 4.8 (Standard), PC 8.8 (High Strength), PC 10.9.
Bending Process	Cold / Hot Forming	Optimized bending radii to prevent micro-cracking at the heel.
Thread Type	Metric Coarse	Precision rolled threads (6g tolerance) for heavy-duty fitment.
Coating (HDG)	ISO 1461	Hot Dip Galvanized; minimum 55µm for harsh environments.
Coating (Zinc)	ISO 4042	Electro-zinc plating (Clear/Yellow/Black) for indoor use.
Documentation	EN 10204 3.1	Full Mill Test Reports (MTR) provided for every batch.



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[Back to Index](#)

◆ **Imperial** Size Guide for Hex Head Anchor Bolts

**Standard:** ASTM F1554 (Grades 36, 55, 105)

**Applications:** Highway Signs, Structural Steel Columns, Wind Turbine Foundations, and Heavy Industrial Gantry.

Diameter (D)	Thread (UNC/8UN)	Head Width (A)	Head Height (H)	Thread Length (T)	Available Lengths (L)
1/2"	13 TPI	7/8"	5/16"	2" – 4"	6" – 24"
5/8"	11 TPI	1-1/16"	25/64"	2" – 6"	8" – 30"
3/4"	10 TPI	1-1/4"	15/32"	3" – 6"	10" – 36"
7/8"	9 TPI	1-7/16"	35/64"	3" – 8"	12" – 48"
1"	8 TPI	1-5/8"	39/64"	4" – 8"	12" – 60"
1-1/4"	7 TPI / 8UN	2"	25/32"	4" – 10"	18" – 72"
1-1/2"	6 TPI / 8UN	2-3/8"	15/16"	6" – 12"	24" – 80"
1-3/4"	5 TPI / 8UN	2-3/4"	1-3/32"	6" – 12"	30" – 96"
2"	4.5 TPI / 8UN	3-1/8"	1-7/32"	8" – 15"	36" – 120"



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[Back to Index](#)

◆ **Imperial** Size Guide for Threaded Anchor Rods

**Standards:** ASTM A307, ASTM A193 (B7/B8), ASTM F1554 (36/55/105)

**Threads:** Unified Coarse (UNC) & 8-Thread Series (8UN)

Diameter (D)	Threads Per Inch (TPI)	Standard Lengths (L)	Weight (approx. lb/ft)	Material Grades Available
1/4"	20 UNC	3', 6', 10', 12'	0.12 lb	A307, B8, B8M
3/8"	16 UNC	3', 6', 10', 12'	0.29 lb	A307, B7, B8, B8M
1/2"	13 UNC	3', 6', 10', 12'	0.53 lb	A307, B7, B8, B8M, F1554
5/8"	11 UNC	3', 6', 10', 12'	0.84 lb	A307, B7, B8, B8M, F1554
3/4"	10 UNC	3', 6', 10', 12'	1.23 lb	A307, B7, B8, B8M, F1554
7/8"	9 UNC	3', 6', 10', 12'	1.70 lb	A307, B7, B8, B8M, F1554
1"	8 UNC	3', 6', 10', 12'	2.23 lb	A307, B7, B8, B8M, F1554
1-1/8"	7 UNC / 8UN	3', 6', 10', 12'	2.85 lb	B7, F1554-105
1-1/4"	7 UNC / 8UN	3', 6', 12'	3.51 lb	B7, F1554-105
1-1/2"	6 UNC / 8UN	3', 6', 12'	5.12 lb	B7, F1554-105
1-3/4"	5 UNC / 8UN	3', 6', 12'	7.00 lb	B7, F1554-105
2"	4.5 UNC / 8UN	3', 6', 12'	9.20 lb	B7, F1554-105



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[Back to Index](#)

◆ **Imperial** Size Guide for L-Shape Anchor Bolts

Commonly referred to as "**Bent Bolts**" in the North American market.

Diameter (D)	Thread (UNC)	Straight Length (L)	Thread Length (T)	Leg Length (L2)	Bend Radius (R)
1/2"	13 TPI	6" – 24"	3" – 5"	2"	1/2"
5/8"	11 TPI	8" – 30"	4" – 6"	3"	5/8"
3/4"	10 TPI	10" – 36"	4" – 8"	4"	3/4"
7/8"	9 TPI	12" – 48"	6" – 10"	4"	7/8"
1"	8 TPI	15" – 60"	6" – 12"	5"	1"
1-1/4"	7 TPI	18" – 72"	8" – 15"	6"	1-1/4"
1-1/2"	6 TPI	24" – 84"	10" – 18"	8"	1-1/2"

◆ **Imperial** Size Guide for J-Shape Anchor Bolts

Specialized for heavy-duty reinforcement anchoring in industrial slabs.

Diameter (D)	Thread (UNC)	Straight Length (L)	Thread Length (T)	Hook Gap (C)	Hook Depth (E)
1/2"	13 TPI	6" – 18"	3"	1-1/2"	2"
5/8"	11 TPI	8" – 24"	4"	2"	3"
3/4"	10 TPI	10" – 30"	4"	2-1/2"	4"
1"	8 TPI	12" – 48"	6"	3"	5"



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[Back to Index](#)

## S C R E W S

TUHU offers a wide selection of industrial and construction-grade screws for fastening into wood, metal, drywall, and sheet materials. Our screws are available in multiple drive styles, head types, thread patterns, and coatings to suit structural, electrical, and general-purpose applications.

### ◆ Available Specs & Sizes

Screw Type	Drive Style	Head Style	Size Range
Hex Lag Screws	Hex	Hex Washer / Flat	1/4" – 1/2" dia, up to 12"
Chipboard Screws	Phillips / Pozi	Flat / Bugle	M3 – M6, up to 120 mm
Wood Screws	Phillips / Slotted	Flat / Oval	#6 – #14, up to 3"
Machine Screws	Phillips / Slotted	Pan / Flat / Truss	#4 – 1/2", M3 – M12
Drywall Screws	Phillips	Bugle Head	#6 – #10, up to 3"
Self-Drilling Screws	Hex / Phillips	Hex Washer / Pan / Flat	#8 – #14, up to 3"
Self-Tapping Screws	Phillips / Slotted	Pan / Flat / Oval	#6 – #14



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**[Back to Index](#)**

# S C R E W S

## ◆ Screws Common Application

		Screw Type	Common Use
		Hex Lag Screws	Wood framing, heavy-duty anchoring
		Chipboard / Wood Screws	Furniture, paneling, cabinetry
		Drywall Screws	Gypsum board to stud fastening
		Self-Drilling Screws	Sheet metal, electrical boxes
		Self-Tapping Screws	Thin metal or plastic with pilot hole
		Machine Screws	Metal-to-metal fastening



## SPECIALTY FASTENERS & PRODUCTS

Not all fasteners are created for standard use. Some are made to tension, align, anchor, or adapt where traditional bolts and nuts fall short. At TUHU, we supply specialty components designed for real-world conditions—whether it's holding a power pole in place, connecting structural plates, or grounding an electrical system. These parts may seem small, but they carry out some of the most critical jobs on site.

### PRODUCT TYPES

	<p><b>Turnbuckles</b> Adjustable tensioning devices used to align or brace threaded systems, cables, or rods.</p>		<p><b>Anchor Plates</b> Flat or round plates that distribute load at the base of anchor bolts or pole assemblies.</p>		<p><b>Grounding Split Bolt Connector</b> Brass connectors for joining conductors in electrical grounding systems.</p>
	<p><b>Ferrules</b> Metal sleeves for reinforcing thread strength in soft materials or concrete formwork.</p>		<p><b>Casting Parts</b> Custom-cast components manufactured to drawing for structural or mechanical subassemblies.</p>		<p><b>Sign Posts</b> Pre-drilled galvanized posts used for signage, fencing, or mounting hardware.</p>

*For custom configurations, material grades, or finishing options, contact TUHU, we will always back your projects.*



## PRODUCT CATEGORY OVERVIEW

Category	Description
<b>Headed Bolts</b>	Hex Bolts, Structural Bolts, Rail Bolts, Guardrail Bolts for industrial applications
<b>Nuts</b>	Hex Nuts, Heavy Hex, Coupling, Lock Nuts paired with bolts and rods
<b>Threaded Rods</b>	Fully or Partial Threaded Rods, Studs, Square Studs
<b>Washers</b>	Flat Washers, Hardened Washers, Square & Ogee
<b>Bent Bolts</b>	J-Bolts, Eye Bolts, J Hooks, U Bolts, and more
<b>Screws</b>	Self-drilling, Wood, Drywall, Chipboard, Machine, Hex Lag Screws and more
<b>Anchor Bolts &amp; Anchor Rods</b>	Embedded anchor bolts and foundation rods for concrete and base plate connections
<b>Specialty Fasteners</b>	Turnbuckles, Anchor Plates, Sign Posts and more



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[Back to Index](#)

## F A S T E N E R C O A T I N G O P T I O N S

Coating Options	Description	Common Use
<b>Hot-Dip Galvanizing (HDG)</b>	Thick zinc coating applied via hot dipping for superior corrosion protection.	Anchor bolts, construction hardware, outdoor steel structures.
<b>Zinc Plating</b>	Thin electroplated zinc layer offering basic corrosion resistance.	Indoor equipment, electrical panels, OEM parts.
<b>Black Oxide</b>	Dark, mildly corrosion-resistant finish with good lubricity.	Machine bolts, tool parts, industrial assemblies.
<b>Stainless Steel</b>	Inherently corrosion-resistant material, no external coating needed.	Marine fasteners, food equipment, outdoor assemblies.
<b>Plain (Uncoated Finish)</b>	No protective coating; requires oil or paint for rust prevention.	Welded structures, indoor steel fabrication.



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[Back to Index](#)

## FASTENER COATING OPTIONS

Coating Options	Description	Common Use
<b>Nickel &amp; Chrome Plating</b>	Decorative and corrosion-resistant shiny surface finish.	Automotive trim, exposed fasteners in machinery.
<b>Teflon Coating</b>	Non-stick, chemical-resistant PTFE layer for low friction and corrosion resistance.	Oil & gas fasteners, chemical plants, offshore applications.
<b>Dacromet &amp; Geomet</b>	Zinc-aluminum flake coatings; chrome-free and highly corrosion-resistant.	Brake system bolts, wind turbines, highway infrastructure.
<b>Zn-Ni &amp; Magni Coating</b>	High-performance anti-corrosion coatings combining zinc-nickel or inorganic layers.	Automotive fasteners, rail components, heavy-duty bolts.
<b>Nylok &amp; Patch Coatings</b>	Pre-applied nylon patches for vibration resistance and thread locking.	Assembly line bolts, automotive, aerospace fastening.



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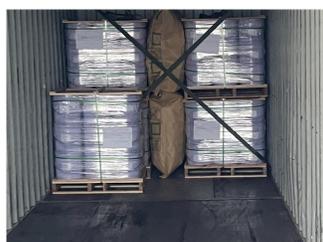


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[Back to Index](#)

## FASTENER PACKAGING METHODS

Coating Options	Description	Common Use
<b>Carton Boxes on Wooden Pallets</b>	Standard cardboard cartons stacked on treated pallets and wrapped with film.	Widely used for nuts, washers, and small to mid-size bolts.
<b>Fully Enclosed Wooden Crates</b>	Sealed crates provide maximum protection during long-distance transport.	Ideal for heavy-duty bolts, custom assemblies, and fragile parts.
<b>Steel Pails with Palletized Crates</b>	Metal drums packed with fasteners, placed in framed crates for bulk handling.	Suited for high-density parts like set screws or specialty bolts.
<b>Steel Pails Secured in Wooden Crates</b>	Drums reinforced with wood for added shock protection during shipping.	Used in export to industrial job sites or rugged regions.
<b>Plastic-Wrapped Bundles with Steel Support Frames</b>	Long rods or plates tightly bundled with plastic and framed for forklift transport.	Common for anchor rods, threaded rods, or custom-length products.



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[Back to Index](#)

## I N D U S T R I E S   W E   S E R V E

Industry	Application Summary	Recommended Fastener Products
<b>Traffic Signal &amp; Light Pole</b>	Fasteners for poles, signage, and utility structures exposed to weather and vibration.	Step Bolts, Eye Bolts, Anchor Bolts, Washers, Hex Flange Bolts
<b>Highway &amp; Bridge Infrastructure</b>	Structural bolts and anchoring systems for bridges, barriers, and roadside safety.	Structural Bolts, Guardrail Bolts, Fish Bolts, Anchor Rods, Tension Control Bolts
<b>Precast Concrete Applications</b>	Anchors and inserts for modular panels and concrete precast elements.	Headed Anchor Bolts, Straight Anchor Rods, Ferrules, Casting Parts
<b>Timber Construction &amp; Framing</b>	Bolts and screws for heavy-duty wood framing, trusses, and joinery.	Hex Lag Screws, Chipboard/Wood Screws, Timber Bolts, Washer Head Bolts
<b>Electrical Utility Hardware</b>	Fasteners for utility poles, substations, and power transmission structures.	Shoulder Bolts, Hex Bolts, T-Head Bolts, Open Eye Bolts, Closed Eye Bolts
<b>Rail &amp; Transit Infrastructure</b>	Anchor rods and plate assemblies for rail systems and elevated transit platforms.	Track/Rail Bolts, Fish Bolts, Sign Post Assemblies, Round U-Bolts, Casting Parts
<b>Mining &amp; Heavy Equipment</b>	Fasteners designed for heavy-duty equipment anchoring, structural assemblies, and underground or high-impact mining environments.	Anchor Bolts, Anchor Rods, Structural Bolts, Square Head Bolts, Plates, Bent Anchor Bolts
<b>Power Generation &amp; Energy Projects</b>	Anchor systems and structural bolts for turbines, transformers, pipe racks, and foundations exposed to heat, vibration, and weather.	Hex Bolts, Anchor Rods, Bent Anchor Bolts, Plates, Anchor Bolts, Hex Coupling Nuts



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[Back to Index](#)



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# WE BELIEVE EVERY CONNECTION MATTERS.

Behind every bolt we ship is a responsibility—to support the steel, to secure the concrete, and to protect the lives that depend on the infrastructure we help build.

***At TUHU, we don't just make fasteners.***

We build trust, one thread at a time.



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