THE NUT PLACE

6605 N. Gessner Houston, TX 77040-4015
Ph: 713-462-3147
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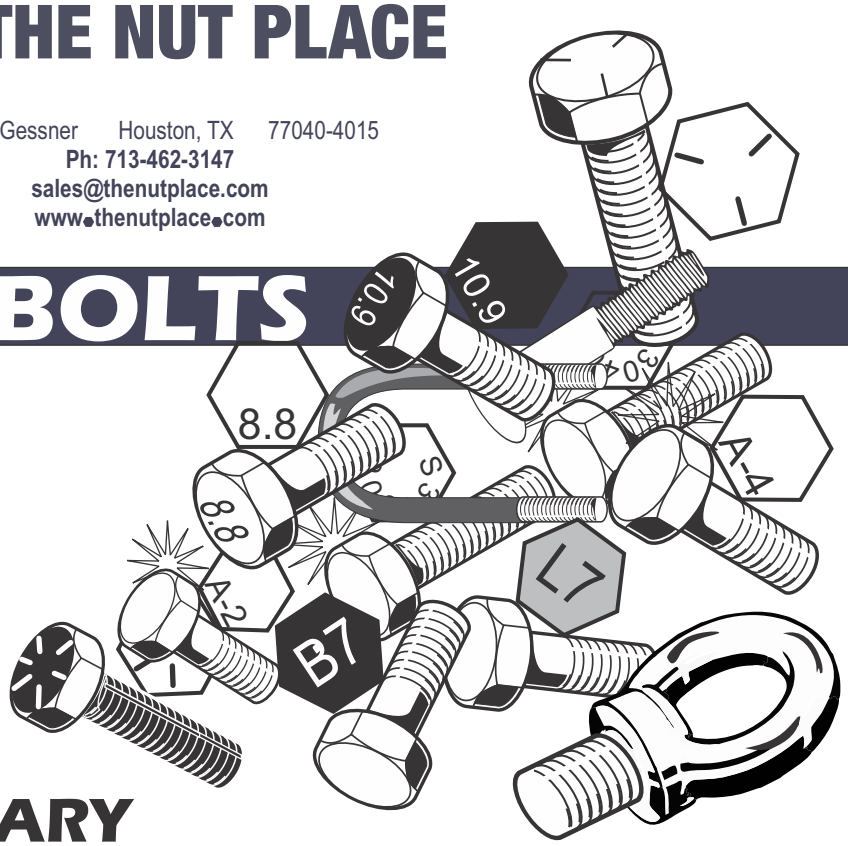
BOLTS



AVAILABLE TYPES

Grade 5 Bolts
Grade 8 Bolts
304 Stainless (18-8) Bolts
316 Stainless Bolts
B8M Bolts
A325 Bolts
A490 Bolts
B7 Bolts
L9 Bolts

TECHNICAL SUMMARY

Grade 5 bolts are made of medium carbon steel and have a tensile strength of 120,000 psi. They are the most common type of nut used in general applications, such as construction, automotive, and machinery.

Grade 8 bolts are made of high carbon steel and have a tensile strength of 150,000 psi. They are stronger than grade 5 and are used in applications where high strength and durability are required, such as heavy machinery, bridges, and skyscrapers.

304 stainless steel bolts are made from a chromium-nickel alloy and contain 18% chromium and 8% nickel. 304 stainless steel bolts are commonly used in food processing equipment, medical devices, and marine hardware.

316 stainless steel bolts are made from a chromium-nickel-molybdenum alloy and contain 16% chromium, 10% nickel, and 2% molybdenum. The addition of molybdenum gives 316 stainless steel nuts superior corrosion resistance to 304 stainless steel bolts, especially in harsh environments.

Property	Grade 5	Grade 8
Tensile strength	120,000 psi	150,000 psi
Yield strength	105,000 psi	130,000 psi
Hardness	Rockwell B 81-93	Rockwell C 32-38
Finish	Zinc plated	Zinc plated

Fastener Finishes

Bolts are available with different finishes like zinc, galvanized, xylan, cad or just plain black. If you need to be supplied with another finish, then call or email us. We can provide finishes to your specification.

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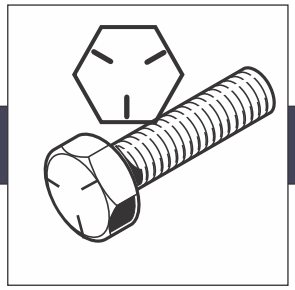
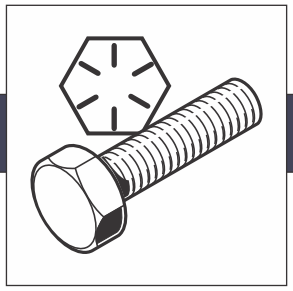


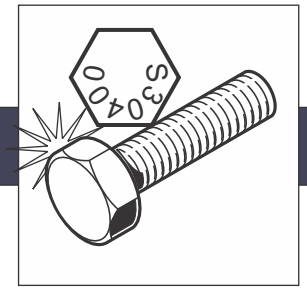
GRADE 5

Grade 5 bolts are medium-strength fasteners made of medium carbon steel. They are identified by three radial line segments on their heads and have a tensile strength of 105,000 to 120,000 psi.



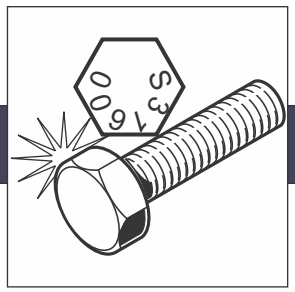
GRADE 8

Grade 8 bolts are high-strength fasteners used in demanding applications. They are made of medium carbon alloy steel and have a tensile strength of 150,000 psi. Grade 8 bolts are identified by their hexagonal head and six radial line segments.



304 STAINLESS

A 304 stainless steel bolt is a type of fastener made from an austenitic stainless steel alloy that contains 18% chromium and 8% nickel. It is the most common type of stainless steel bolt and is known for its excellent corrosion resistance, strength, and ductility.



316 STAINLESS

A 316 stainless steel bolt is a strong and corrosion-resistant fastener made up of an austenitic stainless steel that contains 16% chromium, 10% nickel, and 2% molybdenum. It is useful in many industries:

-Marine
-Food and beverage
-Chemical processing
-Medical
-Construction
-Automotive
-Aerospace
-Water treatment systems
-Oil and gas equipment

Technical Data

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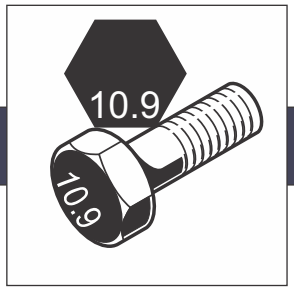
METRIC 8.8 CARBON STEEL

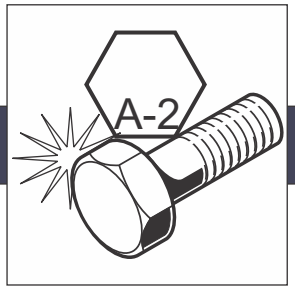
Metric 8.8 bolts are strong fasteners with good tensile and yield strengths. They are commonly used in a variety of industrial applications. The performance is the same as a grade 5 bolt.

METRIC 10.9 CARBON STEEL



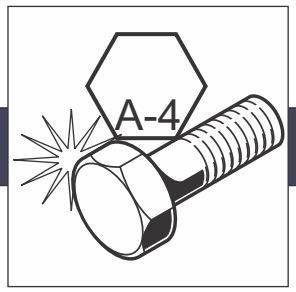
A metric 10.9 bolt is a high-strength fastener that is commonly used in applications where high clamping forces and resistance to shear and tensile loads are required. The performance is the same as a grade 8 bolt.

METRIC A2 STAINLESS



An A2 stainless steel bolt is a type of fastener made from an austenitic stainless steel alloy that contains 18% chromium and 8% nickel. It is the most common type of stainless steel bolt and is known for its excellent corrosion resistance, strength, and ductility. The chemical composition is the same as a 304 stainless bolt.

METRIC A4 STAINLESS



A 316 stainless steel bolt is a strong and corrosion-resistant fastener made up of an austenitic stainless steel that contains 16% chromium, 10% nickel, and 2% molybdenum. The chemical composition is the same as a 316 stainless bolt.

Technical Data

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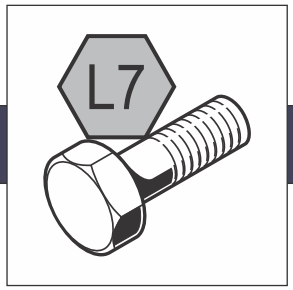
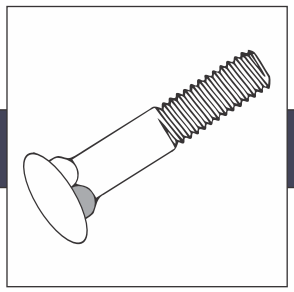
B7

B-7 bolts are a type of heavy hex bolt that is made of alloy steel. They are known for their high tensile strength and yield strength.



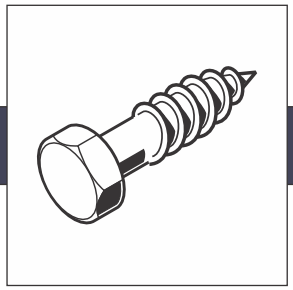
L7

One of the key properties that makes L7 bolts suitable for low temperature service is their toughness. Toughness is a measure of a material's ability to resist fracture under impact loading. At low temperatures, many materials become brittle and are more likely to crack or break under impact. L7 bolts, on the other hand, retain their toughness at low temperatures, making them less likely to fail due to impact.



CARRIAGE BOLT

A carriage bolt is a type of fastener with a domed head and a square neck. The square neck prevents the bolt from rotating when it is tightened, which makes it ideal for use in wood applications. Carriage bolts are typically made of steel or stainless steel, and they are available in a variety of sizes and finishes. Carriage bolts are commonly used in construction and woodworking projects, such as attaching fences, decks, and railings to wooden structures.



LAG BOLT

A FLEXLOCK nut, also known as a prevailing torque nut, is a top quality type of nut that remains tight even when subjected to vibration and shock. It is a one piece all metal self-locking nut.

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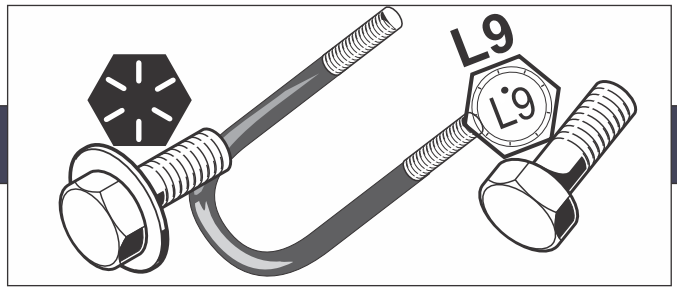
A325 BOLT

A325 and A490 bolts are standard in only nine diameters, 1/2 through 1 1/2. All bolts are heavy hex structural bolts with dimensions conforming to those given in ANSI/ASME B18.2.2. ASTM A325 recognizes that bolts can be made of three types of steel--medium carbon steel, low carbon martensite steel and atmospheric corrosion resistant steel, commonly known as “weathering” steel. Stocked in plain black, zinc plated, and galvanized. Call or email us if you’re looking for A325 bolts.

EYE BOLT

An eye bolt is a type of bolt with a loop at one end. It is a versatile fastener that can be used for a variety of applications, including lifting, securing, and tensioning. The eye bolt is a simple design, but it is very effective at its job. The loop at the end of the bolt allows it to be easily attached to ropes, cables, and other hardware. The threaded shank of the bolt is then screwed into a surface to secure it in place.



VARIOUS OTHER

Consider the many options when buying bolts at The Nut Place. Chances are high that you can find the right bolt for your project. We stock other bolts like flange bolts, U-Bolts, 12-Points, L9 and more. We serve the following industries plus more:

-Heavy machinery
-Construction equipment
-Aerospace components
-Automotive industry
-Marine industry
-Oil and gas industry
-Power generation industry
-Railway industry

Technical Data

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