



# **GOEBEL**<sup>TM</sup> Fasteners Inc.

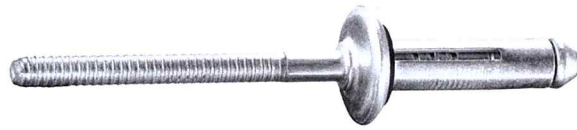
**THE LEADING RIVET SOURCE**

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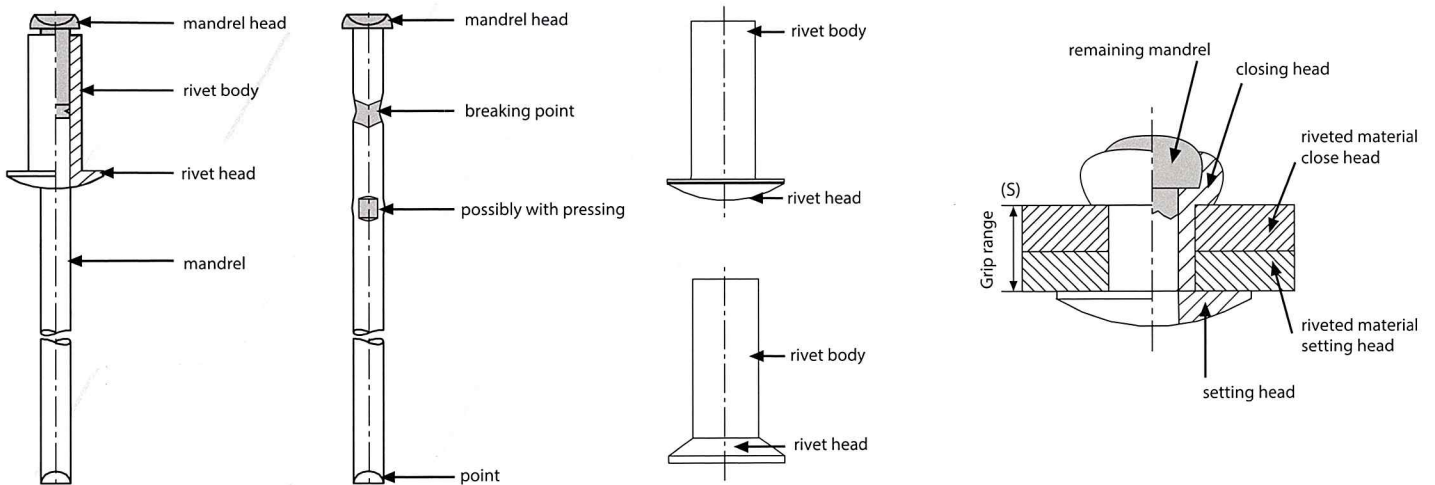
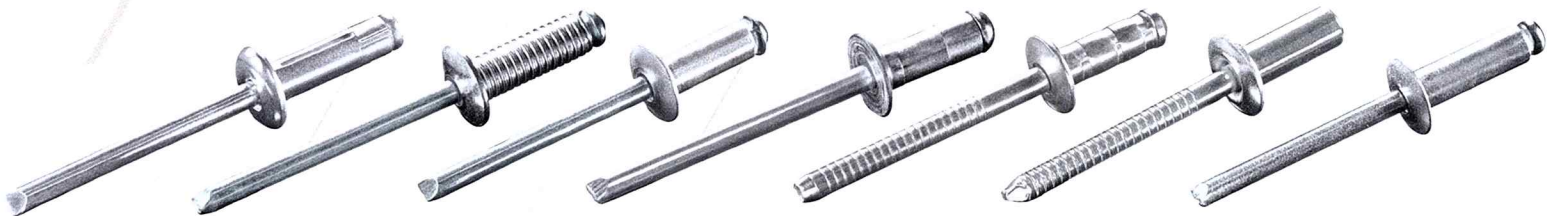
# Blind Rivet Technology

Blind rivets offer a number of advantages over threaded bolts. They won't loosen when subjected to vibration and can secure joints with short clamp length. They are the fastest way to join materials. Blind rivets are comprised of two parts: the body and the mandrel. A rivet body is the portion of the rivet that deforms and stays in the installation. The mandrel is the portion of the rivet that is pulled into the rivet and mostly removed.

## Benefits of Blind Rivets:

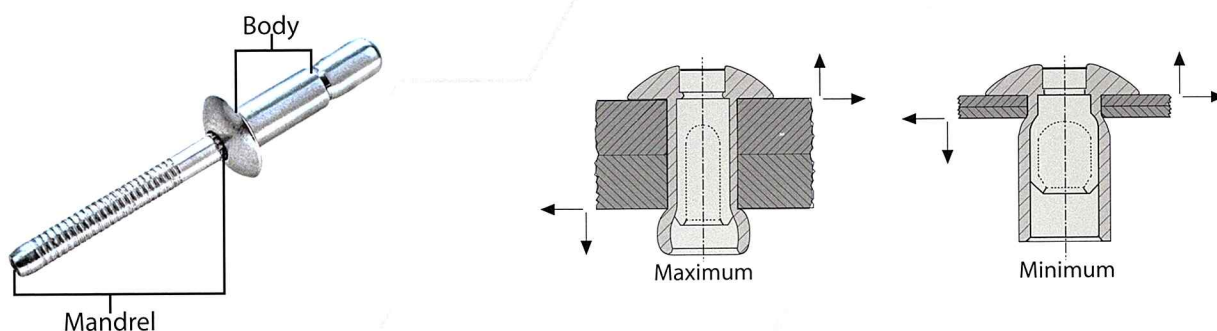


- Improved Product Design – As the rivets are installed from one side only, the need for access to both sides of work is eliminated.
- Improved Design Strength – The use of only a single, drilled or punched hole, filled effectively by an expandable, high shear strength rivet, offers a great increase in part design strength over screw/bolt with nut designs.
- Vibration-Proof Assembly – Blind rivets won't back out or vibrate loose and fall out like threaded fasteners.
- Versatility – Blind rivets hold securely in thin or thick, soft or hard materials, ideal for dissimilar materials, first choice for plastics and other easily damaged components.
- High Grip Range and Joining Strengths – A blind rivet draws parts together, even when a gap exists between parts.
- Strong Consistent Installation – Blind rivets don't torque out like threaded fasteners, wasting time and material. Correct setting pressure is predetermined by the breaking point designed into the mandrel.



# High Strength Structural Rivets

A structural blind rivet has a built-in (internal) locking mechanism that is designed to hold the mandrel inside of the rivet body after the exposed portion snaps. This is commonly referred to as an interlock rivet. Notice how in the diagram below, the portion of the mandrel to the left of the body is also much larger in a structural rivet than in a standard blind rivet.



## Benefits of High Strength Structural Blind Rivets

During installation, the mandrel remains within the shear plane of the fastener, yielding high strength under shear loads. In addition, the internal lock ensures positive mandrel retention, resulting in high strength under pullout loads. These rivets provide excellent clamp-up force and the mandrels break flush with the heads when installed. They offer a vibration-resistant connection and are suitable for a wide variety of applications.



## New 18V Lithium-Ion Cordless Tool Line



# New G-GRIP™ T304 Stainless Steel Lockbolt System

Goebel Fasteners has developed a patented new multi-grip lockbolt system made completely from T304 Stainless Steel.

## Benefits of the G-Grip™ T304 Stainless Steel Lockbolt System:

- Extensive Grip Range – The unparalleled advantage of using a multiple grip range part is that it improves cost efficiency, lowers inventory costs, and increases job site performance by simplifying the installation process.
- Vibration Resistance – During the installation process the collar is swaged onto the pin and locks in place via the grooves. The locking feature guarantees consistent clamping forces, shearing and tensile values once installed.
- Flush Breaking Pin – Stainless steel is known as a ductile material and the efforts to guarantee consistent flush breaking was a challenge. To ensure consistency, we developed a patented design that has proven to break flush every time.
- Reduced Inventory of Standard Parts – Ability to replace up to 14 sizes of the classic 6-groove locking fastener system. This major advantage reduces the need to stock multiple parts for various sizes.



## DUPLEX 318LN & 316L Corrosion Resistant Solutions

GOEBEL's newly developed screws are made from DUPLEX AISI 318LN & our sealing closed-end blind rivets are made of AISI 316L. Both material compositions are solutions to minimize corrosion by using higher grade stainless steel for the fastener application.

## Benefits of Duplex Solutions:

- 3x harder versus AISI 304 or 316 which in turn prevents snapping or stripping of the threads
- Delta Seal Coating reduces friction while increasing the corrosion resistance of the screw
- The closed-end blind rivets combined with the HNBR Washer ensure a 100% waterproof connection
- HNBR Washer is resistant to oxidation, ozone, UV radiation, mineral oils, seawater, & acidic gas



# Blind Rivet Nuts/Threaded Inserts

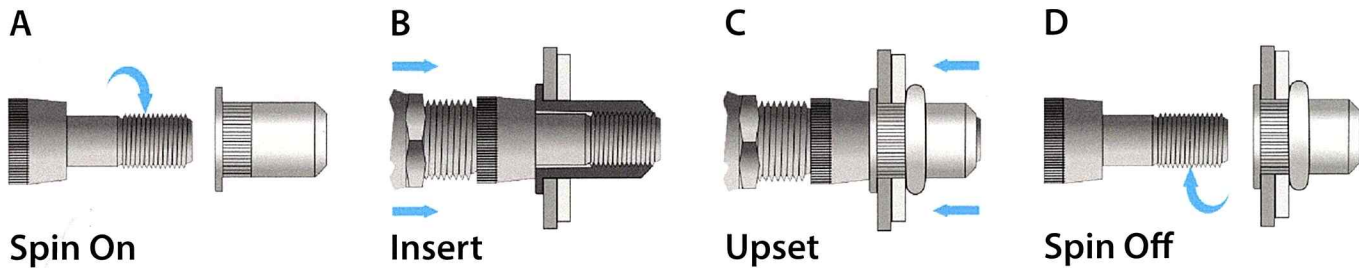
Rivet nuts come in a wide selection of head and body styles with flat head style being the most popular in use. These provide a reliable anchoring point for almost all applications. A main strength of rivet nuts are that, just like with traditional rivets, they are blind. Meaning, these fasteners can be installed securely from one side of the work piece. The rivet nut itself can be installed into a variety of a different materials including metal, plastic, fiberglass and carbon fiber.

## Benefits of Threaded Inserts:

- Simple Blind Assembly – Installs blind in sheet metal, plastics and tubular materials.
- Faster Setting – Less time and lower costs; providing economic joint solutions for thin-walled components
- Highly Versatile – Ideal for every stage of production. No additional work required after installation, including painted parts.
- Lightweight & Durable – Reduced weight paired with proven durability provide clean internal threads for simplified connections.
- Corrosion Resistance – Stainless steel parts provide high strength and good corrosion resistance for required applications.
- No Thermal Stress – Unlike with weld nuts, the application is not diminished by heat during installation.



## The Setting Process



# Tooling for Various Applications



**Pneumatic  
Air Tools**



**Tool Assortment  
Kits**



**Manual  
Hand Tools**



**Cordless  
Battery Tools**

Goebel Fasteners, Inc. offers a variety of tools for any application that you may encounter and our quality is proven with each and every product we offer.

## Product Overview

- Blind Rivets: Open End, Closed End, Multi-Grip, Semi-Structural, Structural, Grooved, Peel Type, Tri-Folding, Interlocking Style, Hemlock Style, Painted Rivets Available On Request\*
- Threaded Inserts: Large Flange Knurled, Small Flange Knurled, Semi-Hex, Flat Head Heavy Duty, Smooth Body, Threaded Stud, Pre-Bulbed/Slotted, Swaging Series
- Installation Tooling: Manual Hand Tools, Cordless Battery Tools, Pneumatic Tools
- Additional Products: Over-Center Toggle Latches, Drill Bits, Nut Drivers, Self-Tapping/Drilling Screws, and many more specialty innovative products.

GOEBEL is your leading source for fasteners that withstand the test of time in all elements. Our blind rivet technology has become a major staple in the global market and our quality is unsurpassed. GOEBEL offers the largest range of innovative fastener solutions in the industry. GOEBEL Fasteners, Inc. is used by leading companies in nearly every industry including oil & gas, automotive, HVAC, railroad, aerospace, telecommunications, and construction.



**Contact Us today to experience the difference!**



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