





The Standard for Maintenance-Free Fastening

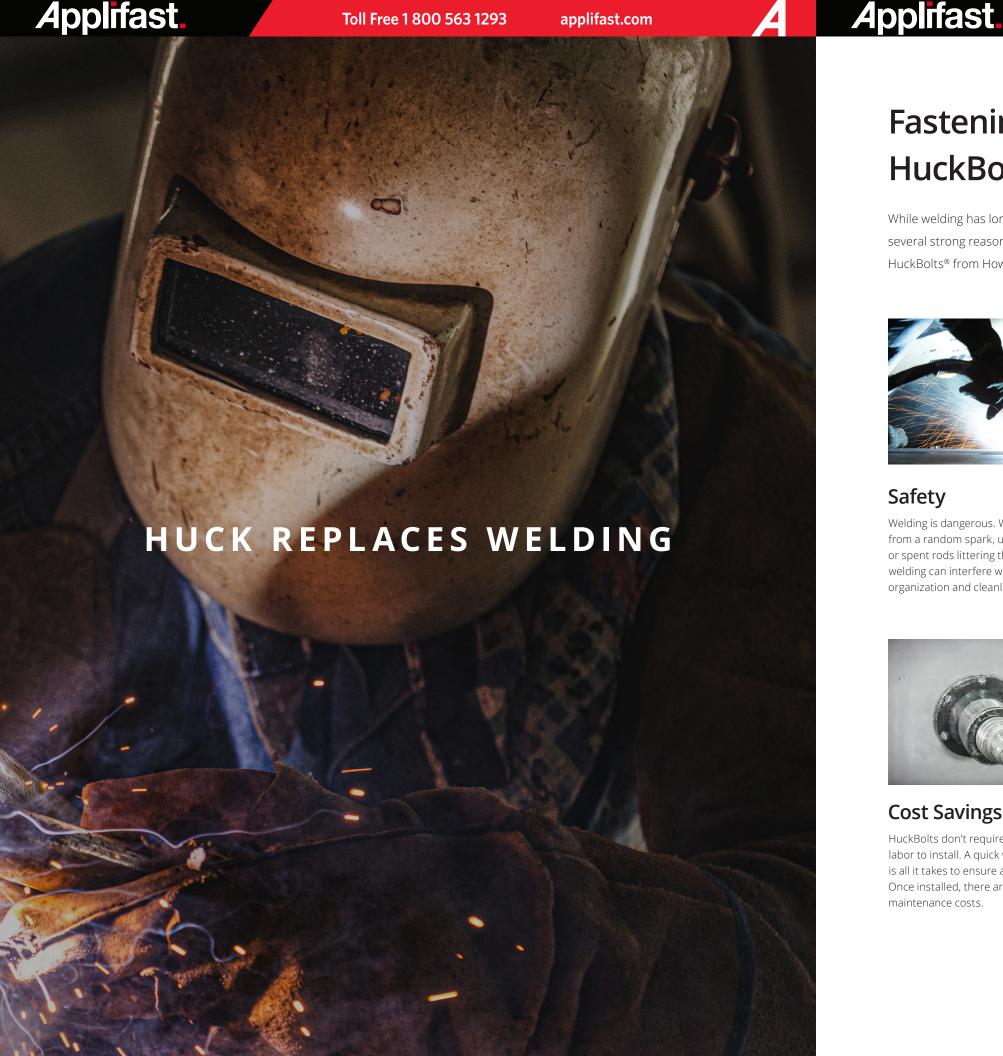






For over 30 years, the Huck® brand has set the standard for joining technology with a range of vibration-resistant, maintenance-free fastener options. From chassis and cab assembly on trucks to floors, axles, and bodies on trailers, Huck fasteners provide the industry's most advanced fastening solutions. Huck fasteners are 100% maintenance-free. No re-checking. No re-torquing. No re-tightening. Ever. A truck or trailer that is assembled using Huck fasteners delivers better life cycle value through reduced warranty claims and a longer life.





Fastening with vibration-resistant HuckBolts® delivers 5 key benefits:

While welding has long been utilized in applications that require a secure joint, today's manufacturers have several strong reasons to consider a proven alternative – direct-tension, swaged-on, maintenance-free HuckBolts® from Howmet Fastening Systems.



Safety

Welding is dangerous. Whether it's fire from a random spark, unintended injuries, or spent rods littering the assembly floor, welding can interfere with worksite safety, organization and cleanliness.



Cost Savings

HuckBolts don't require costly, certified labor to install. A quick visual inspection is all it takes to ensure a solid joint. Once installed, there are no ongoing maintenance costs.



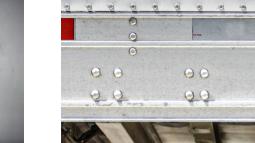
Simplicity

HuckBolts are easy to install and require a minimal amount of training. The Huck system only requires a single trigger press to deliver high, consistent preload. No operator discretion or adjustment required.



Speed

A HuckBolt can be installed in as little as two seconds due to the short time required to apply the tool to the pin and initiate the installation cycle.



Structural Integrity

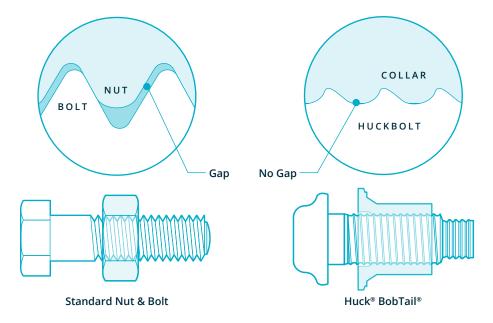
Huck is famous for a high-level of vibration-resistance, creating semipermanent joints that will perform in extreme conditions for years to come without the issues of weld fatigue.



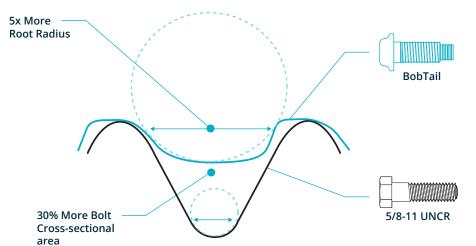
Huck Overshadows All Other Fasteners

Our fastening technologies are known the world over for clamp performance that withstands the effects of vibration without ever loosening. After decades of applications in nearly every major industry, HuckBolts are well proven to never have to be inspected, tightened, or re-torqued. Sunrise to sunset, day in and day out, Huck delivers performance you can count on.

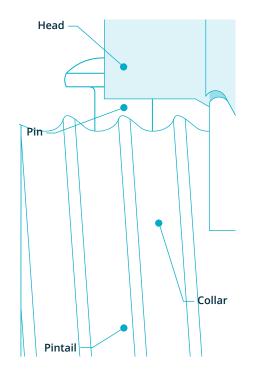
Maintenance-Free Holding Power



Conventional nut and bolt installations leave gaps between the threads that lead to loosening in high-vibration conditions. HuckBolts use a unique swaged metal collar that is pressed into the steel threads of the pin as part of the direct-tension installation process; thus eliminating these problematic gaps.



The unique design of our lockbolt pins have shallow locking grooves so they have a larger root radius than conventional nuts and bolts of the same size. This provides 30% more pin cross sectional area and improved notch factor for 5X improvement in bending and tensile fatigue strength.





Fast, Reliable Installations

Installation of a Huck fastener is typically less than two seconds and requires minimal training. A quick visual inspection is all that is needed to verify an accurate installation.



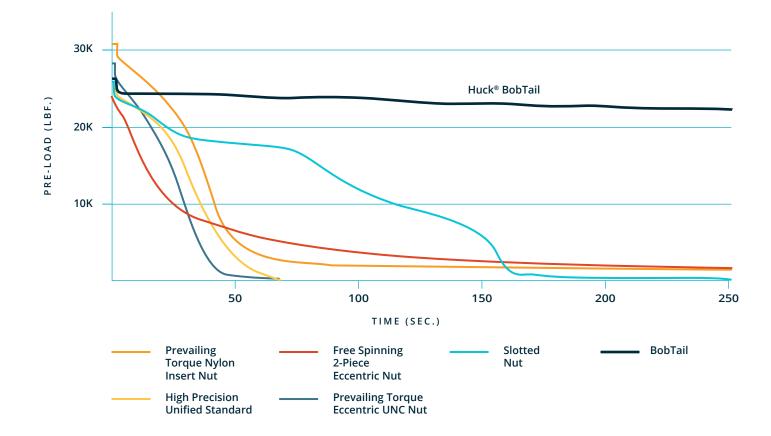
Corrosion has Met Its Match

Coatings for Huck fasteners are designed to fit your application conditions and applied at our fastener plant in Waco, Texas, to ensure quality control.

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Holding Power That Won't Shake Loose

HuckBolts are not subjected to the twisting force of torsion that a torque wrench applies to a conventional bolt. So they can safely be taken to higher preload values, resulting in higher clamp and the highest level of vibration resistance of any fastener, as shown in the Junkers Test results below.





The stainless steel Auto-Bulb offering critical corrosionresistance, is designed to withstand frequent acid washing. Its superior blind side bulbing action makes it ideal for installation within thin materials as well as, oversized, misaligned, or slotted holes.



The solid circle-lock feature of the Magna-Lok ensures quick and sure installation, while its moisture- and vibration-resistant characteristics help guarantee the joint will provide reliable service for the life of the trailer.

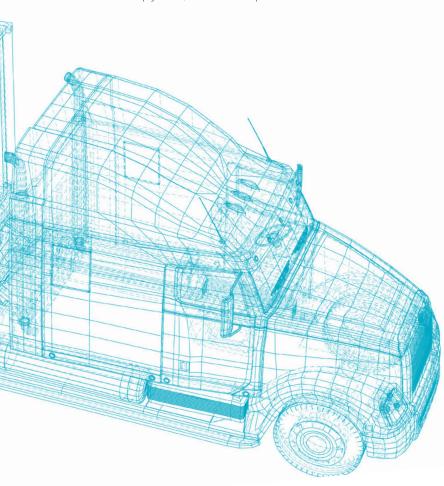


fasteners. HuckBolts provide joint strength and overall durability to a variety of common trailer assembly applications, as shown below. No matter the industry, Huck fasteners are built to last, offering maintenance-free long life, and fewer warranty claims.



Reinforced Panels

The Hucktainer swaged lockbolt contributes a high degree of strength and vibration-resistance, whether used with sheet metal, fiberglass reinforced plywood, or metal-clad panels.





Ladder Attachment

The Huck BOM's combination of high shear capacity and tensile force ensures the longterm integrity of this critical joint.



Floor

The proprietary Floortight blind rivet provides superior strength and vibration resistance, adding to the life and durability of the trailer floor.



Grain Chute

The stainless steel BobTail, with a polished head is designed to keep chute seams tight, eliminating lost product.



Cross members provide significant structural support, and when fastened with the Huck BobTail, you can be sure the support will be as strong as possible. BobTail's high structural strength and proven durability adds to the service life of any trailer design.



Chassis/Subframe **Assembly**

Designed to never loosen, BobTail HuckBolts provide both high structural strength and industry leading durability for critical subframe-to-chassis assemblies.

Howmet Fastening Systems 11

*A*pplifast

Fasteners for Truck and Trailers

Howmet Fastening Systems provides the industry with a wide range of large and small diameter fasteners for a wide range of applications.



BobTail®

The BobTail® continues the HuckBolt tradition by delivering both high clamp and tensile strength, and never loosening even in the highest vibration environments.



Hucktainer®

The Hucktainer® is uniquely engineered for use in structures fabricated from fiberglass reinforced plywood, metal-clad panels, and other composite materials. Because they're designed to distribute force over a wide area, they won't crush, craze, or bull-nose composite panels.



Magna-Grip®

Huck® Magna-Grip® is the ideal fastener where a wide grip range is required and a flush bolt break to the collar is beneficial.



FloorTight®

FloorTight® blind fasteners are significantly stronger and install more consistently than conventional flooring screws. This eliminates the possibility of crushing or pulling through the board. FloorTight fasteners also feature a recessed pinbreak.



BOM®

The BOM® is a high-strength blind bolt offering an alternative to threaded fasteners or welding. Its large blind side footprint makes it ideal for lower strength or thin sheet joint materials.



Magna-Lok®

Magna-Lok® is a hole-filling fastener that can be installed with conventional installation tools. It has a unique circlelock feature, which means a simple visual inspection ensures it is installed properly, 100% of the time. Magna-Lok is moistureresistant, and is available in steel, stainless steel, or aluminum.



HuckLok®/Auto-Bulb®/ Magna-Bulb®

Huck® structural rivets combine a wide grip range with the high shear and tensile strength of a structural fastener. These proprietary fasteners also offer a large blind-side footprint, which makes them ideal for use with lower strength materials or thin sheet joints.



Howmet Fastening Systems Products





Solid Inserts

Keysert® solid, one-piece, key-locking inserts are used to repair damaged threads or for use in original equipment. The Keysert® locking keys provide a positive mechanical lock, which prevents rotation due to vibration or torsion. Available in carbon or stainless steel.





Threaded Inserts

Recoil® threaded inserts deliver positive locking performance and long thread life. Made from 304 Stainless Steel as a standard, Recoil inserts are also available in a wider range of materials including Inconel, 316 Stainless Steel, and Phosphor Bronze. In sizes from #2 through 1-1/2" (inch series)

and M2 through M39.





Blind Rivets

Proven in a wide range of assembly applications, Marson® blind rivets are available in Buttonhead, Large Flange, and Countersunk headstyles in a wide range of materials including aluminum, steel, stainless, plastic and brass and sizes ranging from 3/32" to 1/4".





Camloc[®]

Camloc® quick-release fasteners are available with a choice of 1/4 turn, pushturn or push-push operation. Camloc draw latches provide an adjustable, durable method for securing parts that are open or removed frequently.





Howmet Fastening Systems

Industrial Division Brands













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