

THE HUCK BOBTAIL®

STAR FASTENERS

A HUCK® FASTENER THAT HAS IT ALL!

The Huck BobTail® - small diameter 6.4mm to large 25mm permanent structural Lockbolt®

Lockbolts as an alternative to welding? Manufacturers of heavy equipment are actively investing in direct tension Lockbolts. Installing a Bobtail fastener is significantly faster, stronger and safer than welding a joint. Let's find out more...

BOBTAIL CONSISTS OF TWO PIECES, CALLED PIN AND COLLAR

- The pin has rolled annular lock grooves (shallower than helical threads) with two pull grooves
- The collar material is softer than the pin, with no initial grooves

THE INSTALLATION PROCESS - HOW IT WORKS

- The pin is simply inserted into the prepared hole
- The collar can be pre-spun onto the pin by hand if pre-assembly is required
- When the installation tool is applied and activated, the tool swages the collar onto the pin resulting in high clamp forces
- This force deforms the collar material into lock grooves on pin
- The force generated by the tool locks the collar into place; this will not loosen

HOW IT WORKS / INSTALLS

- Clamps collar onto pin (called swaging), resulting in high clamp forces
- Deforms collar material into lock grooves on pin
- Locks into place, will not loosen

NO PIN BREAK

- Eliminates waste
- Ensures high corrosion resistance
- Eliminates pintail slip hazards
- Greatly reduces shock load to installation tool, thereby extending tool life

SAFE, ERGONOMIC INSTALLATION

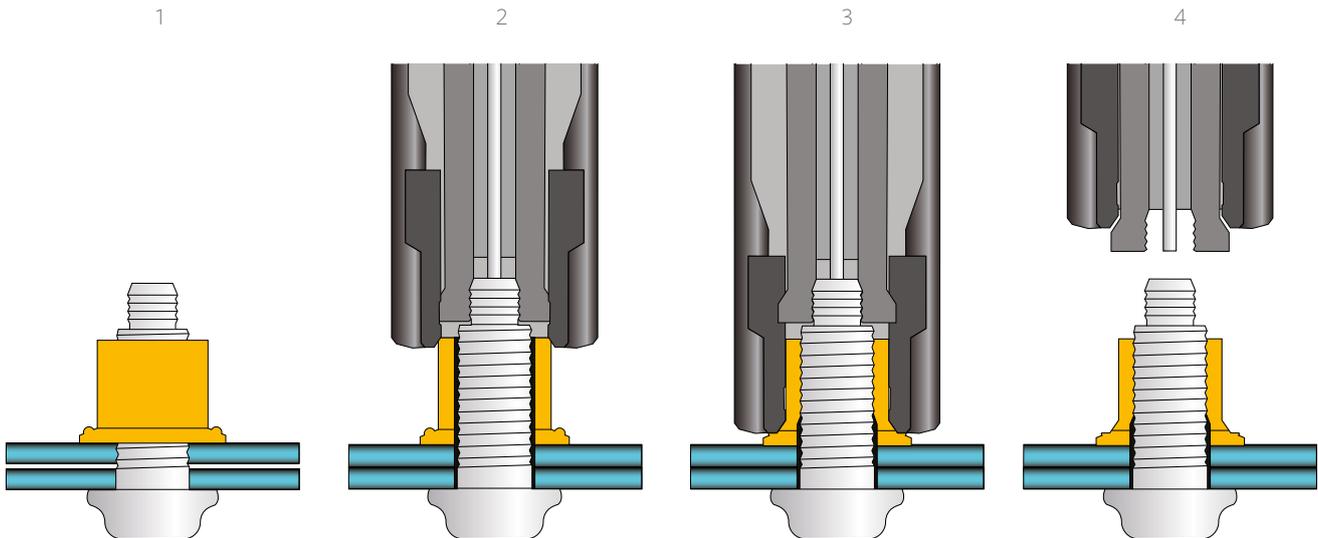
- No torque or impact is transferred to the operator
- Tooling is light and easy to handle
- Its quiet to install – under 70 Db

PROVEN PERFORMANCE

- Fastens without torque – delivers high, consistent clamp loads
- Maintenance free joints – no retorquing required
- Provides high vibration resistance – delivers joints that will not loosen
- High fatigue endurance
- Installs only two seconds
- Visual inspection is all that is required; digital tooling can also be used to record results
- The design of the fastener and tooling allows it to be installed in confined areas
- Creates tamperproof joints



BOBTAIL INSTALATION SEQUENCE



1
The pin is inserted into the prepared hole, and the collar is spun onto the pin.

2
The installation tool is applied to annular pull grooves. When the tool is activated, a puller in the nose assembly draws the pin into the tool, causing the swaging anvil to press on the collar, drawing up any sheet gap.

3
At a predetermined force, the anvil begins to swage the collar into the pin's lockgrooves. Continued swaging elongates the collar and pin, developing precise clamp.

4
When swaging of the collar into pin lockgrooves is complete, the tool ejects the fastener and releases the puller to complete the sequence.

The BobTail System delivers a quick installation cycle time for greater productivity – as fast as two seconds*.

This quick cycle is due, in part, to the short time required to apply the tool to the pin and initiate the installation cycle. Once the operator engages the trigger, the swage and eject sequence is programmed to complete the cycle without any additional worker input.

*Based on a typical installation of 5/8" grade 8 fastener

INSTALLED GAP COMPARISON

In addition, Huck BobTail Lockbolts are not subjected to torsion during installation, so they can safely be taken to higher preload values than conventional bolts, resulting in a much tighter joint.

HuckBolt



The swaged collar forms over the lock thread, and eliminated the gap.

Standard Bolt



Regular nuts and bolts have a gap, which allows for loosening by vibration.

DIBt APPROVED (German national technical approval)

- BobTail has been approved in both static and dynamic applications.
- Re-torque / re-tension of an installed Huck BobTail is not necessary.

THE BOBTAIL FASTENER CAN BE REMOVED

The collar cutter allows fast and easy removal – with a quick, simple change of tool attachment from the installation nose to the collar cutter.

APPLICATIONS

Engineered for a wide range of applications including, truck and trailer, chassis, steel framed towers, construction, bridges, gantries, steel framed / modular buildings, solar, the possibilities are endless!

Huck lockbolts are a precision engineered two-piece fastening system. Bobtail can be installed in intensive vibration environments. They provide a direct metal to metal contact which eliminates the transverse vibration often found in conventional nuts and bolts. Huckbolts deliver superior joining, shear and tensile for an unmatched fastening solution.

We are Star Fasteners; fastener experts and the largest UK Huck fastener distributor. We work globally with a diverse range of end users and distributors from across a number of industries, offering technical application knowledge and customer support. Huck fasteners guarantee performance and help maximise your return on investment; get the right fastener for your project and achieve your business goals.

Telephone: +44 (0) 115 932 4939
E-mail: sales@starfasteners.co.uk