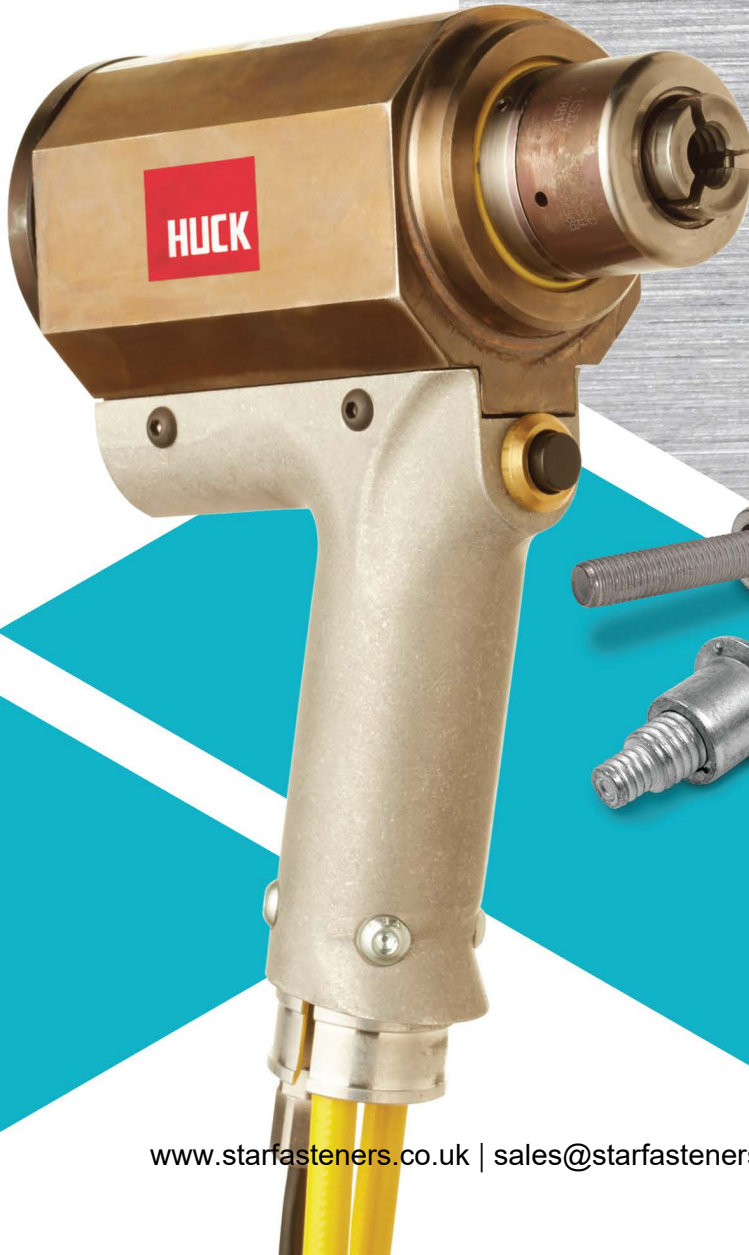




# The Huck<sup>®</sup> Solar System

The Fastening System Designed  
for Solar Panel Installation



# The Huck® Solar System™

Designed specifically to meet the unique requirements of solar panel installation, the Huck® Solar System™ provides a breakthrough in speed and accuracy. Including a wide range of specialized fasteners and installation tooling, this system provides a turnkey approach to panel installation.

## Huck Solar System Fasteners

Howmet Fastening Systems has made solar panel installation faster and more efficient by offering a wide range of the strongest and most durable fasteners available for solar applications today. These fasteners include the BobTail® HuckBolt®, specialized blind bolts, structural blind rivets, and the unique 2-piece self-grounding BobTail. All designed to provide the highest levels of installation efficiency and long-term reliability.

Delivering 5-10X the holding power of conventional fasteners, these Huck fasteners set new performance standards with the highest-level of vibration resistance available to the market.



### Huck® BobTail®

- Unmatched installation speed – less than 2 seconds per fastener
- 5X the fatigue strength of conventional nuts and bolts
- No pin break required for installation, leaving no corrosion-prone area of bare metal
- Unmatched level of vibration resistance



### Self-Grounding BobTail

- All of the features of the standard BobTail plus self-grounding capabilities
- Eliminates the need for complex grounding assemblies - reducing inventory, installation time, and costs
- Simple visual inspection confirms proper installation



### Magna-Lok® Hole Filling Rivet

- Complete hole-filling rivet (CHFR) specifically designed for solar applications; moisture resistant
- Wide grip range accommodates large variations in joint thickness
- Unique mechanical lock ensures the integrity of the fastener in loaded conditions
- Simple visual inspection confirms proper installation



### Huck BOM®

- Highest strength blind oversized mechanical fastener in the world
- Often used as a replacement for welding
- Effective for blind-side joining applications
- Vibration resistant – will not loosen over time

## Huck Solar System Tooling & Power Systems

Huck offers tooling and power systems are designed to meet the unique installation requirements of panel installation. Below are some of the key options for solar installation applications.

### Powerig® Model 913H/F

The Huck Model 913H Powerig® is a portable, gasoline-fueled, hydraulic power source. This system is designed to operate all Huck hydraulic installation equipment in any environment where an air or electric source is not available.

### Powerig Model 940

The Huck Model 940 Powerig is a portable unit sized for on-site installation applications. This unit features rugged construction for durability in the field, the choice of 115 or 220 Volt AC power, and includes a handle for easy transport.

### Huck® Range Force™ BV4500 Battery-Powered Tool by Makita®

The Huck Range Force BV4500 is a durable, full-featured battery tool with a long stroke and electronically adjustable pulling-force from 0 to 4500 pounds. This makes it a versatile performer for installing a wide variety of structural and non-structural blind rivets as well as many 3/16" and 1/4" HuckBolt fasteners.

### SF20 Installation Tool

Huck's proprietary, advanced swageforward tooling was designed as a lightweight, high-performance tool for installation of BobTail fasteners. For tight, space-constrained applications, this tool allows the operator to position his or her hand at a safe distance from the working structure during installation.

### A1100 BT-Tool

The Huck A1100 BT-Tool was specifically designed to install 1/4" aluminum BobTail fasteners. Light weight and easy to use, this tool operates on 90 psi of air pressure. Designed for demanding field use, the A1100 BT-Tool features low maintenance requirements.



## Superior Performance in Solar Installation Application

Solar panel installation has never been faster, easier, and more cost effective to complete than when using the Huck Solar System. Every Huck fastener can be installed easily and quickly, while offering superior strength and clamping performance. These fasteners are also proven to withstand the effects of 100+ MPH winds.

### Simple Reliable Installations

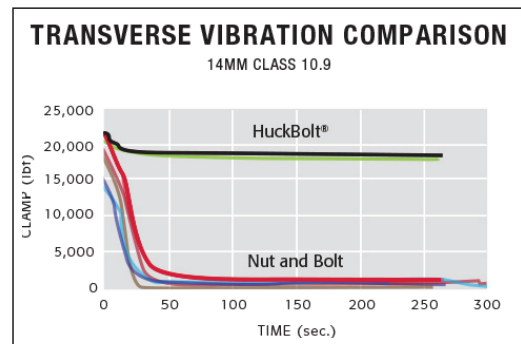
Minimal training is required to effectively install Huck fasteners. In addition, a quick visual inspection is all that is needed to qualify an accurate installation.

### Designed for Strength and Vibration Resistance

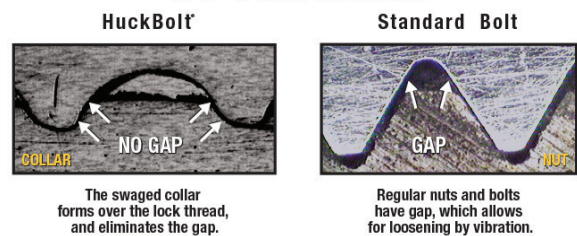
There are several design elements of HuckBolts® that ensure ultimate resistance to the effects of vibration. In conventional nut and bolt installations, gaps between the nut and bolt threads provide the opportunity for loosening in high-vibration conditions. Based on the HuckBolt collar being pressed into the threads of the bolt as part of the swaging installation process, these problematic gaps are virtually eliminated.

Huck-brand fastening technology is proven to withstand the effects of vibration without ever loosening. This means HuckBolts never need to be inspected, tightened, or re-torqued – saving time and money.

Huck fasteners are designed with shallow locking grooves that allow for a much larger bolt root radius than is found in conventional nuts and bolts. The resulting 30% additional cross-sectional area of the bolt provides the Huck fastener with 5-10X the strength of traditional nuts and bolts.



### GAP COMPARISON





# Howmet Fastening Systems

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