

Trex® Universal Fastener Installation Tool



More than a decade ago, Trex expanded its Hideaway® Hidden Fastening System with the introduction of the Universal Fastener, which can be used with most major competitive deck boards. This product was designed in conjunction with contractor feedback to deliver a fast and easy installation while eliminating the excess waste of carrying several product lines' hidden fasteners. To further help building professionals optimize both cost and time efficiency, Trex has introduced the new Trex® Universal Fastener Installation Tool, an innovative accessory designed to increase application ease and accuracy, while reducing installation time by up to 50%.

Created with both professionals and DIYers in mind, this tool cuts installation time in half by allowing the installer to fully actuate the fastener in one easy step. Utilizing a nose cone to make sure the bit hits the fastener head, as well as a unique drive angle, the installer can now fully tighten each clip while easily sliding the next board into place. Lightweight and durable, the tool also features a rotatable handle that allows for both pushing and pulling from a variety of angles, along with a handy bit holder on the underside.

The new Trex tool delivers a simple installation process that allows for a clean, superior, fastener-free deck surface. The Universal Fastener also makes it faster and easier to replace damaged boards – even those in the middle of a deck – resulting in less time spent on callbacks.

Fastener Innovation Alley

compiled by Fastener World

Filler-free Rust Preventative Cap

A simple concept of shielding bolts and nuts brings the birth of a preventative cap named "Mamoru-kun" made by Kyowa Rubber in Japan. The installation is completed simply by screwing in the cap along the extra length of the bolt. High watertightness (IPX7 grade) prevents the bolt from rust and extends the life of infrastructure.

Made of polycarbonate, the cap has the same level of transparency as glass does, so visual inspection is possible without removing the cap, while providing strong weather resistance. It has passed the NAS3350 vibration test.



Threadstrong® Line of Made-In-USA Aftermarket Wheel Fasteners

MacLean-Fogg Component Solutions (MFCS), a leading supplier of original equipment automotive components, announces the launch of the Threadstrong® brand. "We are well known as the leading OEM supplier in North America for high performance, decorative wheel fasteners. It's always been frustrating to us to see the aftermarket flooded with inferior, low quality and potentially dangerous replacement wheel fasteners of unknown origin. So, we decided to do something about it." Said Brad Southwood, MFCS Vice President of Sales and Marketing.



"No team is more knowledgeable about how to engineer and manufacture safe and durable wheel fasteners than the MacLean-Fogg team. We've been the leading supplier to many of the world's largest automakers for over 40 years. We want the aftermarket consumers to know that when they buy a Threadstrong® wheel fastener, they can trust it was made in the U.S.A to all of the needed safety specifications." Said Rob Whitney, President of the MFCS Fastener Division.

"A lot goes into wheel fasteners that the general consumer probably doesn't think about. Beyond just obvious considerations like material strength, corrosion resistance, and durability, there is a tremendous amount of engineering and quality control that goes into controlling the friction of the fastener's load bearing surface against the wheel. Too much friction and the wheel fastener will torque down while still being loose against the wheel, creating a potentially unsafe condition. Too little friction and the act of torquing the nut down can overstretch the stud creating a wheel stud failure. Can you trust that the replacement nuts you see online or in retail stores have the proper friction and coatings needed to assure a safe clamp? Our benchmark testing shows significant inconsistencies. What we do know is that Threadstrong® wheel fasteners will be safe to install and will work in the stated application." Said Mark Raves, Director of Wheel Fastener Engineering for MFCS.





KYOUJIN High Strength Thermoplastic Bolt

Nippon Chemical Screw with over 50 years of history rolls out KYOUJIN Bolt which is made of thermoplastic resin fibers. (KYOUJIN means "rigid" in Japanese.)

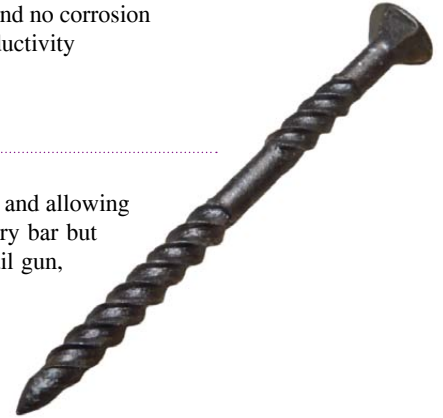
The features of this product are:

1. Strength: The highest strength of all the company's products. Tensile strength at 17,492N.
2. Lightweight
3. Insulated: High electricity resistance
4. Corrosion-resistant: No rust and no corrosion
5. Heat resistant: Low heat conductivity
6. Non-magnetic

Drivable Screw Nails

Kankei has developed Double Lock Nail[®] harnessing the strength of a self-rotating screw and allowing the use of a nail gun to drive it in place. It can also be removed like a screw, not with a pry bar but by using a power tool. It exerts the fastening force of a screw and can be inserted with a nail gun, working both like a screw and nail.

Unlike conventional screw nails, the entire Double Lock Nail[®] is embedded in the material when driven in, exerting full strength without creating open space between materials. This is achieved by fastening with the entire nail to create a strong grip without cracking thin wood. It can also be used to fasten C shaped steel and aluminum.



"Blanca" Heat Treatment

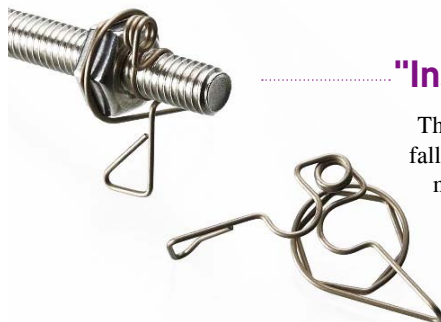
Japanese Kamiyama Tekkosho made its first attempt into the heat treatment field in 2020 and developed "Zero Chromate", a chrome-free electroplating technology, and this time went on to develop RoHS and REACH compliant "Blanca" heat treatment used on SUS410 stainless steel screws. "Blanca" means "white" in Spanish. The

name implies the visually appealing and damage-free heat treatment. It sustained 4,000 hours in a salt spray test. It prevents red rust and corrosion, can self-heal and fasten stainless steel plates.

Natural Oil Based Coating for Stainless Steel Screws

The "KC18" coating announced by Kokubu Corporation is nothing like anyone would expect as it mainly consists of rice bran oil that enables acid resistance for the coating. Since ancient times, the Japanese has been using natural oils to prevent rust on swords and other iron objects.

Salt spray tests reveal that KC18 can resist red rust for 2,016 hours. Cyclic tests show KC18 can prevent red rust for 16 cycles (16 hours of salt spray and 8 hours of drying). KC18 can not only be used as a lubricant in operation, but also improves thread fastening performance, while contributing to environmental protection.



"Instant Lock"

The Advanex "Instant Lock" is a hardware to prevent nuts from loosening and falling. Mount it from below onto a hanger bolt and it is good to go without the need for maintenance. It can be mounted and dismantled single-handedly and effortlessly. It doesn't require any tools nor torque management. Currently it is used in installation to ceilings but will expand its application to other fields.



"TAFF®-A" Screw Series

To improve automated screw fastening, Techno Associe rolls out "TAFF®-A" Screw Series, including mini-screws, machine screws, high strength screws and self-tapping screws. Customers can choose one of them according to the type of fastened objects and applications to solve the problems with automation and greatly improve productivity. The series can be used with electric screwdrivers, multi-knot robotic arms and production lines, and has achieved cost reduction in screw fastening. The series doesn't create gaps with the bits and therefore is suitable with automated screw fastening devices.



RT UNI-C Decking Screw

The REISSER RT UNI-C is manufactured from corrosion- and acid-resistant stainless steel A4 directly at the company headquarters in Criesbach, Germany. It is a high-quality "Made in Germany" product ideally suited for permanent use in outdoor areas that are exposed to weather conditions, including in areas with special climatic conditions, such as those near the coast. Thanks to its diameter of 6.0 mm and length of up to 100 mm, the RT UNI-C is perfect for processing large board thicknesses. It is suitable for all types of wood — even woods containing a large amount of tannic acid and modified woods.

The RT UNI-C was developed in order to make it possible to screw all common softwoods, hardwoods and tropical woods onto wooden substructures with additional large board thicknesses outdoors too, such as in the construction of bridges or platforms, but also in terrace construction as well as in gardening and landscaping.

The RT UNI-C decking screw is equipped with a countersunk head with milling ribs and SIT® drive. The milling ribs ensure effective milled recessing of the head in wood and allow for absolutely flush countersinking. They not only guarantee an attractive final result, but also reduce the risk of injury.

The existing thread under head allows the component to be pressed firmly into place and prevents the wood connectors from creaking or wobbling. The thread under head provides secure support and securely fixes the terrace boards onto the substructure. With the reinforced core in the special thread, the decking screw is more stable and robust and offers a high breakage resistance. After production, the RT UNI-C made of stainless steel A4 is pickled in the in-house electroplating facility, passivated and coated with anti-friction coating, which considerably reduces the screw-in resistance. ▣



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