

Fastener Innovation Alley

compiled by Fastener World

SuperBite™ Compression Screw System to Open a New Chapter in Foot Orthopedics

Medical technology company Treace Medical Concepts has announced the successful completion of the first clinical cases using its next generation SuperBite™ Compression Screw System. **The screw combines a variable pitch thread with a headless design, and features self drilling and countersinking capabilities that enable rapid implantation while delivering high strength compression. Its beveled head and smooth edges make it suitable for both minimally invasive and traditional open surgical approaches, and with diameters ranging from 2.5 mm to 7.0 mm, the system is widely applicable in forefoot, midfoot, and hindfoot orthopedic and fusion procedures.**

Dr. Anne Holly Johnson, a surgeon at Hospital for Special Surgery in New York and a member of Treace's Surgeon Advisory Board, said her first cases with the SuperBite™ screws were very successful, praising the streamlined insertion and strong compression and indicating that she plans to use the system in a broad range of fusion and osteotomy applications. Treace CEO and Chairman John T. Treace noted that the SuperBite™ system, together with the upcoming SpeedXM™ Midfoot Fusion System, is expected to expand the company's total addressable market by approximately USD 300 million in 2026, reinforcing its position as a one stop technology partner in foot and midfoot surgery, with full commercialization of the SuperBite™ Compression Screw System anticipated in the third quarter of 2026.

SuperBite

Fully-Threaded Compression Screws



TREACE

ICC-Approved Metal Connector Screw

Professional premium fastener leader GRK Fasteners has introduced the GRK Metal Connector Screw, a new structural fastening solution that has received ICC ES ESR 2442 approval. Designed specifically for metal to wood structural applications, the screw enables contractors to meet building code requirements while improving installation speed and reliability.

The screw features GRK's proven T 25 Star Drive™ technology, which provides six points of contact to significantly reduce the risk of cam out and stripping. Combined with the Fast Bite Tip™, it allows immediate starts without pre drilling, making it ideal for high volume, repetitive fastening tasks. Available in #9 and #10 diameters corresponding to common 10D and 16D nails, the product comes in Handy Paks® for smaller jobs and Pro Paks® for larger projects. It is suitable for joist hangers, post bases, post caps, and other metal connector installations, helping contractors improve on-site efficiency, reduce installer fatigue, and maintain full compliance with structural code requirements.





New Standing Seam Metal Roofing Screw

Metal fastener brand Teks® has officially launched the Teks Standing Seam Roofing Screw, a purpose built fastener engineered to meet the specific performance and installation requirements of modern standing seam metal roof systems. Unlike many contractors who still rely on generic screws supplied with metal panels, **this new standing seam screw is designed for precision, consistency, and installation efficiency, and is suitable for attaching metal standing seam panels to wood decking and framing. It is compatible with both flanged and clip based systems and features a low profile “pancake” head that helps prevent dimpling or panel deformation while preserving the clean, modern aesthetic of standing seam metal roofs.**

The new screw uses a sharp point tip and a coarse thread design to ensure fast starting and strong holding power in wood substrates, while the T25 star drive head improves bit to screw engagement compared with traditional Phillips heads, reducing wobble, cam out, and the risk of stripped or dropped screws. Senior Product Manager Kim Cortes notes that standing seam roofing has moved from a niche application to a mainstream standard, and Teks’ design philosophy is focused on creating specialized solutions for today’s installation environment rather than re using generic designs. The screw helps contractors achieve precise, consistent, and high quality results on every standing seam project. The Teks Standing Seam Roofing Screw is now widely available across the U.S., both online and in store at The Home Depot, Amazon, and a network of building materials suppliers, lumberyards, and hardware retailers, enabling installers to purchase dedicated standing seam fasteners alongside other job site materials rather than relying solely on generic screws bundled with panel orders.

New Mechanical Inline Connector Enables Direct Copper to Aluminum Wire Connection without Terminal Blocks

GBP K.K., a provider of integrated renewable energy solutions, has announced the launch of a new Mechanical Inline Connector in the Japanese market that **allows copper and aluminum conductors to be connected directly in a straight through configuration, eliminating the need for conventional terminal blocks. The product is designed to save panel space and improve on site installation efficiency.**

Engineered to suppress galvanic corrosion between dissimilar metals, the connector supports conductor sizes from 14 mm² up to 500 mm² and can be used across a wide voltage range, from low voltage circuits up to 35 kV class systems. Installation requires no crimping or compression tools; instead, a standard power driver or wrench is sufficient, with torque break head screws providing visual confirmation that the specified torque has been reached, thereby improving consistency and reducing reliance on operator skill. The low voltage version comes standard with a cold shrink tube for insulation, waterproofing, and mechanical reinforcement, while high voltage applications can be combined with commercially available inline insulation materials applied in accordance with the manufacturer’s instructions, enhancing safety and standardization in power and renewable energy projects.



Professional Grade Nuts and Washers Line Enhances Performance and Motorsport Kits

American high-performance fastener specialist ARP (Automotive Racing Products) has announced to introduce nearly 60 new nut and washer kits in 2026, expanding its sales strategy based on “size” rather than “application,” making it easier for engineers and tuners to quickly select and match components according to exact requirements. **The new additions include a range of specialty nuts and washers designed to pair seamlessly with ARP’s existing high-strength bolt and stud families, addressing assembly needs in high-torque and high-vibration environments.**

The ARP washer lineup offers both polished stainless steel and black-oxide-treated 8740 chrome-moly steel in SAE sizes from 1/4" to 3/4" and metric sizes from M6 to M18, available in both standard and

chamfered designs. ARP also offers special insert washers to protect the top of holes from galling and deformation, in popular SAE and metric dimensions. On the nut side, the portfolio includes premium 12-point and hex nuts, Nyloc nylon-locking nuts, self-locking “Jet” nuts, 12-point “K” nuts, and serrated flange nuts, collectively enhancing the reliability and long-term durability of high-performance drivetrains and motorsport applications. ■

