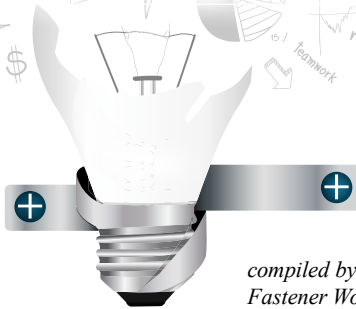


Innovation Alley



compiled by
Fastener World



INSPECTOR Torque Wrench

Kistler is expanding its range of inspection systems for fastening technology by introducing the new INSPECTOR torque wrench. Thanks to this easy-to-handle device with its display/measuring unit, users can carry out process capability tests on bolted joints for evaluation and documentation of fastening process under series production conditions in a matter of seconds. The INSPECTOR meets a requirement that is especially important in the automotive and vehicle manufacturing industry: quality assurance compliant with the VDI/VDE guideline after the fastening process is completed. The new torque wrench also offers an advantage that was never available on the market until now: an interface with the CEUS and testXpert software applications for evaluation and archiving.

M8 Undercut Anchor



With patents in Taiwan, China, Japan and Germany, Laiterli Group (Laiterli International Engineering) in Taiwan has developed an M8 undercut anchor which is able to fasten tightly with masonry and does not require tapping the anchors during operation. It is reusable, easy for operation and inexpensive.

According to National Center for Research on Earthquake Engineering (Taiwan), the M8 undercut anchor did not distort or loosen during a 7 Richter scale quake test and there was no cracking and damage on the masonry. The anchor successfully withstood up to 1,600kgf in an SGS-approved torsion test and is compliant with B/T32839-2016 standard.

Molded-In Aluminum Threaded Inserts for Plastics

SPIROL is pleased to introduce a new, high-performance series of Molded-In Inserts for plastics assemblies. The rugged design of the Series 63 Through Hole Inserts and Series 65 Blind End Inserts consists of multiple bands of helical knurls to maximize torque resistance, balanced with radial undercuts to achieve high pull-out (tensile) force. These Molded-In Inserts are designed to be placed in the mold cavity prior to plastic injection, and offer exceptional performance due to unrestricted plastic flow into the retention features on the outside diameter of the Inserts. These lightweight, lead-free Threaded Inserts for Plastics are manufactured from 2024 grade aluminum which provides the best combination of strength, corrosion resistance, machinability and cost. The Series 63 and Series 65 Molded-In Inserts are lead-free, 40% stronger than brass, and 1/3 the weight of the same insert manufactured from brass. Standard metric thread sizes include M4, M5, M6, and M8, and standard inch threaded sizes include 8-32, 10-24, 1/4-20, and 5/16-18.



No Break Screw

"No Break" Screw by Kitamura Seiko Corporation contains at its front end a blade portion to cut the wood and prevent the wood from cracking, as well as a threaded portion to increase the screw's thrust. These designs help achieve the following 3 advantages:

1. No wood cracking when the screw is driven into the ends of the wood.
2. The screw will continue to drive in even if it hits a knot in the wood.
3. No need to follow growth rings when driving the screw.



M-Grip™ T304 Stainless Steel Lockbolt System



In continued efforts to improve the industry standard, Goebel Fasteners has developed a patented new multi-grip lockbolt system made completely from T304 Stainless Steel. In applications where a wide grip range is needed and a consistent flush pin break to the collar is favorable, the Goebel M-Grip™ is the new and improved standard in the market. Essentially the M-Grip's wide grip range and various sizes can replace up to 14 sizes of the classic 6-groove locking fastener system. Similar to all Goebel engineered fasteners, the M-Grip™ provides a top level of quality and vibration resistance. The M-Grip™ installs consistently with reliable and identical installed values.



For more than 60 years, **Bülte** has been supporting all industry sectors to meet their needs for plastic protection and fasteners. Established in Germany, England, and France, the international profile family-owned company launches this autumn a new range of products: an organic thermoplastic polymer used in engineering applications, PEEK. Considered as one of the top-of-the-range plastics, PEEK is a thermoplastic with excellent mechanical and chemical resistance properties that are retained to high temperatures (oils, hydrocarbons). Because of its robustness, PEEK is used to fabricate items used in demanding applications, including bearings, piston parts, pumps, compressor plate valves, and electrical cable insulation. Due to its low flammability (UL 94), it is one of the few plastics compatible with ultra-high vacuum applications, which makes it suitable for many types of industries. PEEK is also considered as an advanced biomaterial used in medical implants.

It also has a lower density than metal, which makes it an excellent substitute when weight is a limiting factor in the final product. All these properties make it a material of choice in the manufacture of technical and/or electrical parts.

It is therefore highly recommended for use in high-tech industries:

Energy (Oil, Nuclear), Medical & Pharmaceutical (replacing glass, stainless steel or other metals), Chemical, Automotive

Security Fastener

A new range of security fasteners has been launched to help businesses to cut the cost of being a victim of crime from their overheads. The innovative 5-Lobe pin from TR Fastenings is the first complete range of security fasteners made from corrosion-resistant A4-70 stainless steel - the perfect product for outdoor use, in particular in marine, health and medical sectors because of its non-reactive qualities. The fastener's five-sectioned screw head means that it can only be undone by someone with specialist tools, preventing its removal by an opportunist criminal. Fastenings made with corrosion-resistant A4-70 stainless steel do not degrade if they come into contact with salt water and other chemicals that have an impact on other forms of steel. The durability of the high grade material means that components need to be replaced less often.



5 Lobe Pin

The 5-Lobe pin is rated as a level 2 enhanced security product and can be supplied with button or countersunk heads in either machine screws or self tapping screws. A4-70 stainless steel is a high tensile strength stainless steel with excellent corrosion resistance making it perfect for both internal and external applications. It is used in the manufacture of medical surgical instruments and in the pharmaceutical industry where cleanliness is absolutely key - the addition of molybdenum to its composition provides the A4 grade with a greater level of corrosion resistance. Its composition means it is also perfect for use in marine environments. ■

(manufacturing of steering elements, clutch or brake components, etc.), Electronic industry (insulators, connectors and supports).

Bülte's product range in PEEK material includes:

- Washers ~ DIN 125 / EN ISO 7089 / DIN 34815 from M4 to M12
- Hex socket head screws ~ DIN 912 from M4 to M12 (lengths 10 to 70mm)
- Hex head screws ~ DIN 933 from M4 to M12 (lengths 10 to 60mm)
- Hex nuts ISO 4032 from M4 to M12



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