NEWS . . . NEWS . . . NEWS . . . NEWS

New Stainless Steel PEM® TK™ TackSert® Pins
Ideal Alternatives to Screws for Attaching Thin Top Panels in Assemblies

New stainless steel PEM® TK™ TackSert® pins introduce ideal alternatives to screws for attaching thin panels in assemblies. They can securely attach panels of any material to base panels manufactured from common casting materials (such as AZ91D) or plastics (such as ABS and printed circuit boards). Unique design features promote reliable performance in service.

PEM® TK™ TackSert® pins deliver multiple advantages over screws by eliminating any need for mating threads from tapped holes or

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New Blind Mount, Heyco® Helios® UVX Clip

The jersey pine tree mounting style of the new blind mount, Heyco Helios® UVX clip installs easily with superior holding power. Cables are then easily installed with fingertip pressure. The Helios® UVX clip is molded from nylon 6/6 with extended UV capabilities which protects from corrosion in outdoor exposure. The UVX clip is covered by our Solar 20 Year Warranty.

The Helios® clip installs into a .260” (6.6mm) mounting hole and holds up to two cables between .230-.315” (5.8-8.0mm) each.

Click here to view data sheet.
NEW . . . NEW . . . NEW . . . PRODUCTS

New Stainless Steel PEM® TK™ TackSert® Pins (continued from page 1)

inserts and the rework frequently required due to screw cross-threading and driver bit “cam-out.” Patches intended to prevent fastener loosening in service are unnecessary.

Among pin design features, a tapered tip assists in pin location to enable easier alignment into a base panel, a specially engineered diagonal broaching knurl (instead of threads) creates a firm interference fit without hole-tolerance issues, and a low-profile head minimizes protrusion on the top-panel.

TackSert® pins are installed with a simple press-in installation. Pins can even be installed automatically for high-volume jobs.

Detailed specifications, fastener drawings and 3D models, and performance data (Bulletin TK) can be viewed and downloaded for free here.

New Thread Size Now Available For MSIA™/MSIB™ Inserts For Plastics

The SI® MSIA™/MSIB™ inserts are now available in M2 micro thread size.

MSIA™/MSIB™ microPEM® inserts provide reusable metal threads to attach plastics securely in compact electronic assemblies. Their unique symmetrical shape will accommodate either straight or tapered holes and eliminates any need for orientation of the inserts during installation. The inserts install permanently where designed into ABS, polycarbonate, and other plastic substrates by pressing them into the host material using ultrasonic equipment or thermal press.

Detailed specifications, fastener drawings and 3D models, and performance data (MPF Bulletin) can be viewed and downloaded for free here.

New ATLAS® Speed Ratchet Tool Easily Installs Blind Threaded Inserts

The new ATLAS® speed ratchet tool easily installs both ATLAS® SpinTite® and MaxTite® fasteners. It is designed for installing. Tool comes complete with mandrels and nose pieces for installing nuts from #6-32 to 1/2-13 and M4 to M12.

Click here to view video of speed ratchet tool operation.
IN THE NEWS

PennEngineering Acquires Haeger Inc.

Haeger® ([www.haeger.com](http://www.haeger.com)), the global market share leader in their business, designs and manufacturers self-clinching fastener insertion presses.

The acquisition of Haeger® positions the combined Haeger®/PEMSERTER® and PennEngineering as the undisputed world leader in clinch fastener insertion technology. The acquisition creates many advantages including a strengthened single source approach to clinch fastening installation, increase breadth of product line, overall increased value to customers and combination of the best of both Haeger® and PEMSERTER® technologies.

We expect the combined resources to develop innovative installation solutions for customers that make the choice of our presses and fasteners a compelling option.

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TECH TIPS AND SOLUTIONS

NEW TECH SHEET

SUBJECT: Technical review of PEM® RT™ vibration resistant thread technology

Loosening of threaded fasteners due to vibration has been a problem from the first use of threaded fasteners. However, the cause of vibration loosening was not well understood until relatively recently. In 1969, Gerhard Junker published SAE paper No. 690055 titled “New Criteria for Self-loosening of Fasteners under Vibration.” Junker put forth the theory that fasteners “self-loosen” when there is simultaneous relative motion between the mating threads and the loaded face of the bolt or nut that is loosening. To understand how this simultaneous relative motion causes self-loosening, two other concepts must be understood.

[Click here](http://example.com) more information on Tech Sheet PEM® - REF/ PEM® RT™ THREAD FORM.
Recent Articles Highlighting PennEngineering Products and Technologies

Design World Magazine (February 2018) - When Should You Use Self-Clinching Locknuts?
Plastics Technology (January 2018) - Four Ways to Tackle Threaded Inserts for Plastics
The Distributor’s LINK magazine (Spring 2018). The Hard Fastener Facts for Clinching into Stainless

New Installation Animations
Click here to view our new installation animations for ultrasonic, heat staking, molded-in and press-in SI® threaded inserts for plastics.

Click here to view the round rivet nut, pierce stud with flange and clinch nut PROFIL® fastener animations.

Trade Show Calendar
Click here for our global trade show and conference calendar to view the upcoming shows that we are exhibiting in.

Global Applications Summit
On April 15-18, 2018 a combined 205 PennEngineering worldwide direct and channel customer facing technical teams gathered in Philadelphia to share new ideas and gain a renewed understanding of the company, products, brands, applications and emerging technologies.

Do you have an interesting application for PEM® products that you would like to share? Contact us at info@pemnet.com.

PEMspec™ App
The PEMspec™ App includes all of the newest PEM® specifications and photos.
For iOS 11 (and higher) users, please delete and reinstall the new, updated PEMspec App.
Click here for additional information.

Stay connected to PennEngineering
Now you can follow us for the latest news releases, new products, bulletin updates, tech tips, job postings, videos and more.

PennEngineering® is an expert in the development and manufacture of precision fasteners, components and systems, specializing in thin sheet attachment solutions.

A spirit of fastening & engineering innovation. Leading by design.

Visit our PEMNET™ Resource Center at www.pemnet.com