

# PEM<sup>®</sup>LINE

*Fastening Products, Systems, and Applications from the Industry Pioneer*

## **New...New...New...New...Products!**

### **NEW FASTENING SOLUTION**

#### **PEM<sup>®</sup> TYPE SFN<sup>™</sup> SPINNING FLARE NUTS ROTATE FREELY FOR QUICK ATTACHMENT OF MATING HARDWARE**

New PEM<sup>®</sup> Type SFN<sup>™</sup> spinning flare nuts are designed to rotate freely when permanently captivated in thin metal sheets for quick attachment to mating hardware and reduced need for loose fasteners such as flange nuts. When paired with a self-clinching stud or other fixed externally threaded hardware, all loose hardware can be eliminated from an application to help streamline assembly time and decrease production costs. [View animation.](#) PEM Type SFN one-piece flanged steel hex nuts install easily in steel, stainless steel, or aluminum sheets of any hardness and as thin as 1mm. Upon installation, the nut becomes permanently captive and will spin freely in the sheet to accommodate mating hardware for final component attachment.

The fastener installs by inserting it into a properly sized, pre-punched, and embossed mounting hole and then applying sufficient squeezing

force to flare the shank. When installed, the part will appear identical to a standard flanged hex nut above the sheet and will remain flush on the other side.

PEM Type SFN spinning flare nuts are currently available in thread sizes M5 through M8. [View literature.](#)



# COMPANY NEWS / WEBSITE UPDATES

## New Business Unit Established

Newly formed by PennEngineering, the pennTool™ Group utilizes extensive experience and knowledge to bring quality, cost effective tooling and machine part solutions to fastener and component manufacturers across various industries. The pennTool Group provides:

- Low cost, high quality manufacturing
- Highly modernized production facilities
- Competitive global pricing
- Fast quote and production turnarounds
- Blanket order programs
- Small sample lot and production orders accepted
- Global customer service

[Click here to view website.](#)



**pennTool**™  
GROUP

## Authorized Distributor Network Expanded in Australia

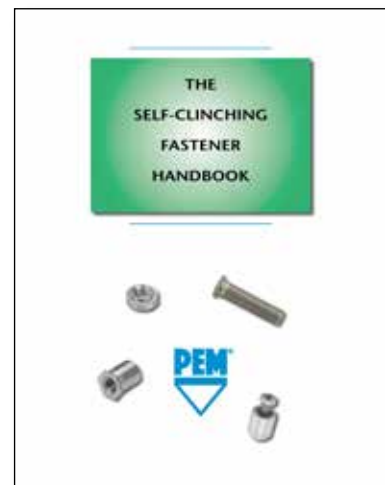
Bossard Australia Pty Ltd. ([www.bossard.com](http://www.bossard.com)) now joins Ampec Technologies Pty. Ltd. ([www.ampec.com.au](http://www.ampec.com.au)) and Complete Machine Tool Services Pty Ltd. ([www.cmts.net.au](http://www.cmts.net.au)) as an authorized distributor in Australia. Bossard will become the master distributor for PEM® fasteners while AMPEC Technologies will look to help leverage their support on urgent requirements. CMTS utilizes their own expertise as a machine and equipment distributor and operates as the master distributor for PEMSERTER® presses. AMPEC Technologies will also look to help leverage their support on PEMSERTER issues.

# BOSSARD

## Updated Self-clinching Fastener Handbook

The Self-Clinching Fastener Handbook discusses why, how, when and where to use self-clinching fasteners. This latest issue includes several updates including a new section on “Common Design Challenges”.

[View the Handbook.](#)



# NEWS AND TIPS

## New specialty fastener capability

### PEM® Nut for Thinner, Harder Panels

Initially developed for automotive applications, this product capability can be used across many different industries. This self-clinching nut can address the current trends towards thinner (0.8mm), harder panels. Installs into thinner, harder, high strength steel materials. [View TechSheet.](#)

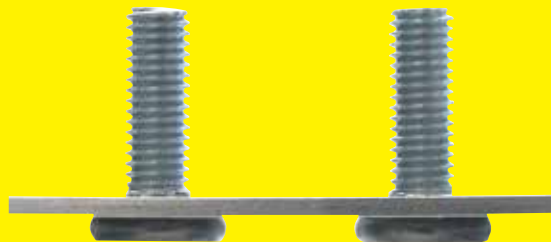
- Allows overall weight reduction.
- Addresses environmental / recycle concerns.
- Provides lower installed cost.
- Allows component standardization.



## TECH TIP

### Guidelines for spacing multiple self-clinching fasteners within close proximity to each other:

- Multiple fasteners installed must be spaced far enough apart to avoid distorting each other's holes.
- To space use "Centerline to Edge" values. Use this to space to the edge of the one hole from the center of another.
- Failures seen can be sheet distortion and "oil canning".



# PRODUCT FOCUS

## ATLAS® Brand Fastener Options

Atlas rivet nuts can be specified with a choice of several application specific features. Some of the more popular include:

- Under head wedges for increased torque in softer materials.
- A PVC seal under the head to provide a watertight seal for blind end fasteners.
- A nylon locking patch for thread locking requirements.
- An anti cross-threading feature on externally threaded fasteners.



[Click here to view the complete ATLAS catalog.](#)

## PEMspec™ App

The PEMspec app includes all of the newest PEM specifications and photos. [Click here](#) to take a look.



## 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® develops and manufactures PEM® brand fasteners, 3V® brand precision aerospace fasteners, SI® inserts for plastics, ATLAS® blind threaded inserts and QRP® brand quick release pins.**

**Fastener installation systems include PEMSERTER® automatic and manual precision presses, In-Die and robotics capabilities, and the StickScrew® System for small-screw insertion.**

**PennEngineering®**



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