PEM® BUSBAR FASTENERS FOR AUTOMOTIVE ELECTRONICS

World-class automotive electrical systems require reliable and secure performance from their internal components. PEM® busbar fastening solutions are designed, developed and proven to perform across many busbar-to-busbar applications.

Safety Critical Performance. Certified Clean. Application Tested.

Reliable Clamp Load and No Galvanic Corrosion

• Reliable clamp load to all joints throughout busbar and busbar-to-busbar connections

• Plastic integrity is uncompromised by the applied load

• Variety of material/plating combinations available

Technical Cleanliness with PEM® Clean Lab

• Per customer specifications, ISO 16232, VDA 19 standards

• Processing: extraction, filtration, drying/weighing

• Clean Analysis: fully automatic, high sampling rate, precise particle detection

Application Engineering and Certified Testing

• Custom design and product development

• Application-specific product testing, sampling

• Quality control technical inspections for all PEM® parts
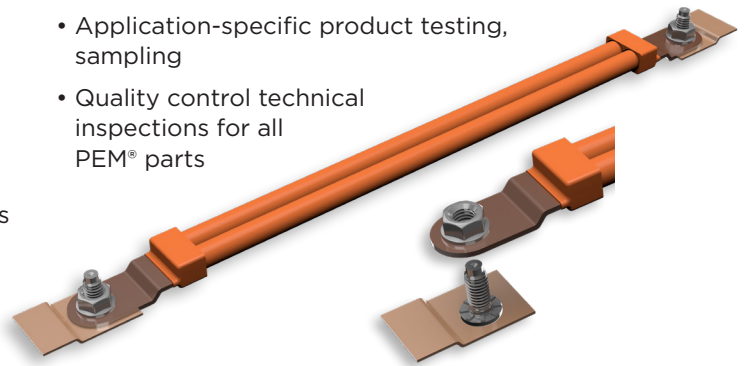
PEM® Busbar Fasteners

THFE™ Heavy Duty Studs
For installation into busbars as thin as .031"/0.8 mm

• Clinch design for high-strength, permanent installation

  • Ideal for installation into copper, aluminum, steel

• Enlarged head diameter/thickness provides enhanced contact area

Download Data Sheet

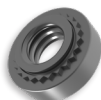The use of PEM® THFE™ Heavy Duty Studs and Captivated Spinning Nuts in this busbar application provides many benefits:

• Reduced electric arcing potential

• Reduced fire potential

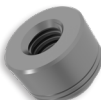• Minimal gap

• Better contact area

• Higher current flow
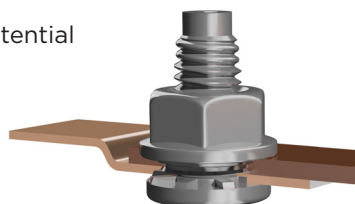
B™ Self-Clinching Blind Nuts
Download Product Bulletin
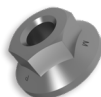
Captivated Spinning Nuts
Download Product Bulletin

S™ Self-Clinching Nuts
Download Product Bulletin

Reelfast® SMTSO™ Standoffs
Download Product Bulletin

SI® Molded-In Inserts for Plastics
Learn More

PEM® Grooved Self-Clinching Pin for RADSOK® Connectors

SI® Threaded Inserts — Proven Performance in Plastics for Auto Electronics

Installation Methods

SI® inserts are manufactured for all common installation methods:

Ultrasonic
Great for: Thermoplastics
High overall performance
VIDEO: **Ultrasonic Animation**

Heat Staking
Great for: Thermoplastics
High overall performance with low installation cost
VIDEO: **Heat Staking Animation**

Mold-In
Great for: Thermosets & Thermoplastics
Best pull-out and torque performance
VIDEO: **Molded-In Animation**

Press-In
Great for: Thermosets
Easy, simple press installation at lowest cost
VIDEO: **Press-In Animation**

Materials and Finishes

Brass
• Industry standard
• Lowest cost

Stainless Steel & Aluminum
• SI® is the industry leader for stainless steel and aluminum inserts

• Only insert manufacturer to offer aluminum as a catalog standard (lead-free and 70% lighter than brass)

• Stainless Steel offers better protection from certain types of corrosive agents

• Smart alternatives to leaded brass that support sustainable manufacturing

Get PEM® and SI® Support Anytime, Anywhere

No matter where you are in the world, our value-add services are there. With locations throughout North America, Asia and Europe you'll get complete global support at the local level.

Application Engineering Services
• Application Review
• Custom Design/Product Development
• 3D Models
• Teardown Services

Technical Lab Services
• Product Testing worldwide
• State-of-the-art Clean Lab capabilities
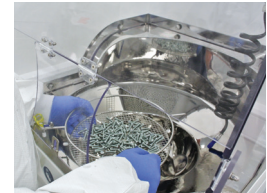
SI® Prototype Kit
• 1,000+ ultrasonic, mold-in, press-in inserts
• Various types/sizes for your specific design requirements

GLOBAL CONTACT INFORMATION

NORTH AMERICA
Danboro, Pennsylvania USA
info@pemnet.com
+1-215-766-8853
800-237-4736 (USA)

EUROPE
Galway, Ireland
europe@pemnet.com
+353-91-751714

ASIA/PACIFIC
Singapore
singapore@pemnet.com
+65-6-745-0660

SHANGHAI, CHINA
china@pemnet.com
+86-21-5868-3688