

PennEngineering®

PEM LINE

Fastening Products, Systems, and Applications from the Industry Pioneer

NEW CAPABILITIES SELF-CLINCHING LARGE SIZED STUDS

Thread sizes up to 1/2" / M14 and lengths up to 6" / 152mm.



Typical industries include agricultural, automotive, construction, electrical, HVAC, industrial machinery, material handling, military, and railroad.

These studs are used when high torque out and pushout and, if necessary, high tensile/shear strength are required. Easy and inexpensive to install, they provide strong threads in metal sheets as thin as .036" / .91mm.



SEE PAGE 2 FOR MORE FEATURES AND BENEFITS

www.pemnet.com

IN THE NEWS

PEM® CHINA RECOGNIZED FOR ENVIRONMENTAL PROTECTION EFFORTS

PEM® China has received the “Advanced Environment Protection Enterprise” award from the Kunshan (China) Municipal Government. The award recognizes the “efforts and excellent results achieved in meeting and exceeding environmental protection requirements” and was presented during 38th World Environment Day ceremonies on June 5, 2009.



PEM China is a PennEngineering® manufacturing facility located in Kunshan, China.

3V FASTENERS PASSES COMPREHENSIVE AUDIT

3V Fasteners Company, Inc., has been approved as a participating supplier in the Delegation Program for Boeing Commercial Airplanes (BCA). This approval authorizes 3V Fasteners to ship procured products directly to Boeing’s commercial programs without requiring source inspections.

According to Boeing, participation is offered only to “an elite group of suppliers who have proven themselves as high-quality performers.”



3V™ FASTENERS
PRECISION AEROSPACE FASTENERS
www.3Vfasteners.com a **PEM®** Company

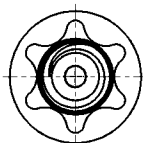
LARGE SIZED STUD CAPABILITIES (continued from page 1)

Features and Benefits

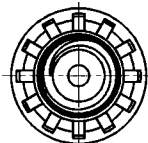
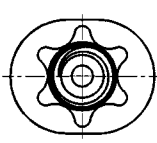
- Head strength is adequate to develop full thread strength.
- Specially heat-treated for greater tensile and shear strength.
- Large head diameter reduces compressive stress on panel.
- Can be used in material as thin as .036” / .91mm.
- Easy to install. No welding.
- Can be installed with automated equipment.
- Available with MATHread®/MATpoint® anti cross-threading feature.
- Thread strength: grade 5 through 8 and property class 9.8 to 10.9.
- RoHS compliant materials and finishes.
- Installs into panels up to HRB 85 / HB 165.



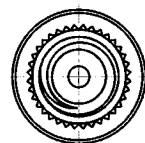
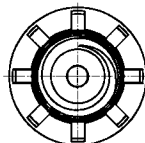
Assorted head and clinch styles are available:



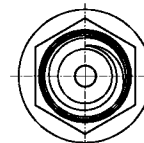
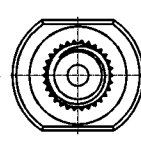
Six-lobe



Multi-Lug



Knurl

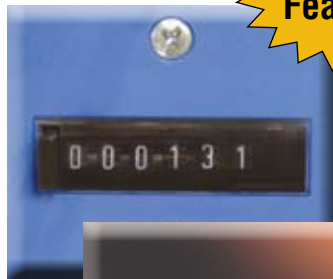


Hexagonal

SERIES 4® PRESS NEW FEATURES

The PEMSERTER® Series 4® press is totally pneumatic providing 6 tons of force and has a 45.7 cm / 18" throat depth which provides clearance for a variety of chassis configurations. It is designed to install self-clinching fasteners in size M2 / #0 thru M10 / 3/8" in steel, and sizes up to M12 / 1/2" in aluminum panels or circuit boards. New features include:

Stroke Counter



Laser Pointer



Lockable Tool/Accessories Storage Cabinet

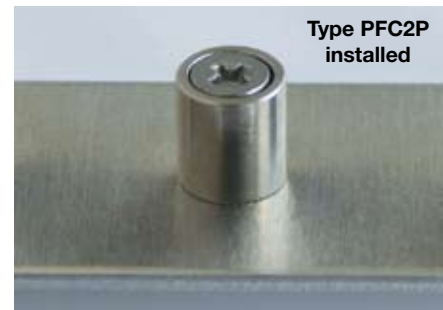


Features and Benefits

- Insertion force adjustable from 4.5 to 53.4 kN / 1000 lbs. to 6 tons.
- Pneumatic power for speed, consistency, and simple operation. Requires shop air only.
- Integral point-of-operation safety.
- Large parts tray with dividers.
- Rapid tooling changeover, perfect for short production runs.
- Laser pointer, stroke counter, and lockable cabinet for tools and accessories storage.
- One-year parts warranty and two-year limited warranty on pneumatic components.

PANEL FASTENERS - UL APPROVED

Type PFC2P and PFC4 recessed-head panel fastener assemblies and Type PF10 flush-mounted panel screw components are UL 1950 "service area access" approved. When these fasteners are tightened down, the heads of the screw are fully concealed for tool only access.



KEEP YOUR PEM® CATALOG CURRENT

If you have a PEM catalog three ring binder with tabbed sections, and specify or purchase our products, you should make sure that you have the most current PEM Bulletins in your catalog. We regularly update our literature and post the most up-to-date versions on our web site in PDF format. Check our web site and download the most current PDF available at: www.pemnet.com/comp_lit_files/

NEW GLOBAL TECH SUPPORT E-MAIL SYSTEM

If you have a technical question just send to: techsupport@pemnet.com. Our Global Tech Support E-mail System is monitored 24 hours a day in all major regions of the world. This allows us to respond to your questions quickly regardless of your location.



TECH TIP - How far apart from each other can I reliably install PEM fasteners?

When determining the distance between two or more fasteners you can use the formula: C/L to edge distance + 1/2 the diameter of the second mounting hole. This is a general guideline. Please consult our techsupport@pemnet.com with any questions regarding your specific application.

PennEngineering® develops and manufactures PEM® brand fasteners, 3V™ brand precision aerospace fasteners, SI® inserts for plastics, and ATLAS® blind threaded inserts.

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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