

PennEngineering®

PEM[®]LINE

Fastening Products, Systems, and Applications from the Industry Pioneer



Self-clinching

Flare-mounted

Floating

PEM[®] TYPE PF11[™] AND PF12[™] ACCESS HARDWARE FAMILY

Three different mounting styles promote design flexibility

*Shoulder on retainer provides positive stop
during installation*

*All have the same profile or "look"
above a sheet when installed*

Anti-cross threading feature eases assembly

Wide standard selection of knobs



New
32-page
Technical
Bulletin
PF

MORE ON PAGE PAGE 3

www.pemnet.com

TECHNOLOGY UPDATE



PEMSERTER® SERIES 2000XT™ PRESS DELIVERS 10 TONS OF RAM FORCE

Ideal for Installation in Stainless

This automatic fastener-installation press system provides 89 kN/10 tons of ram force to install large thread size self-clinching fasteners into stainless steel. A 45.7 cm/18" throat depth enables clearance for a variety of chassis configurations.

- *Job search and recall mode references 300 stored previous jobs for quick and easy return*
- *Wide feeder track increases fastener-feeding rates*
- *Large touch-screen and graphics promote operator-friendly use*
- *Ethernet capabilities can interface with data-collection, production management, and off-site troubleshooting systems*
- *LightStream® Operator Safety System*

PEMSERTER® Series 2000XT™

PEMSERTER® SERIES 3000™ PRESS WINS INNOVATION AWARD

The world's first fastener-installation press engineered with full servo actuation technology has received an "Innovation" award for excellence at the MIDEAST Awards competition. The award was presented during the annual MIDEAST exhibition held in Paris for industrial subcontractors.

The actuation technology driving this automatic press promotes clean, oil-free and environmentally friendly operation, improved reliability, and minimized maintenance.

The press can install self-clinching fasteners permanently in thin-metal sheets up to 30% faster than traditional systems.



Download Our Growing Library of PEMSERTER Bulletins:
http://www.pemnet.com/comp_lit_files

PEM® ACCESS HARDWARE

Our **Types PF11™ and PF12™ panel fastener assemblies** are available in **three distinct standard mounting styles** to meet design needs; with **knurled metal cap, unknurled metal cap, scratch-resistant black metal cap, or plastic C.A.P.S.™** (colored access panel screws); **universal slot/Phillips drive** (except for plastic cap); and **anti-cross threading technology** to ease assembly and enable normal thread driving even when components are misaligned or internal threads are clogged.

Standard Mounting Styles:

Self-clinching

- Installs flush on back side of panel.
- Available in three screw lengths.



Flare-mounted

- Appropriate for close centerline-to-edge applications.
- Doesn't require high installation force.
- Installs into any panel hardness.
- Installs flush on back side of panel.
- Can be installed into most any thin material.
- Appropriate for painted panels.



Floating

- Compensates for mating hole misalignment.
- Installs into any panel hardness.



MORE PEM® PANEL FASTENER SOLUTIONS

PFC2, PFS2

Bulletin PF



Spring-loaded panel fastener assembly for tool or hand operation.

PFHV

Bulletin PF



Low-cost panel fastener assembly with universal slot/Phillips recess for tool or hand operation.

PFC2P

Bulletin PF



Panel fastener assembly with Phillips recess for tool only operation.

SCB, SCBJ

Bulletin SCB



The spinning clinch bolt with axial float or jacking feature installs captive in panel and still spins freely.

PFC4

Bulletin PF



Panel fastener assembly for installation into stainless steel sheets with Phillips recess for tool only operation.

PF10

Bulletin PF



Flush-mounted panel screw components.

PF30, PF31, PF32

Bulletin PF



Low-profile panel fastener assembly with large knurled head for tool or hand operation.

PSL2, PTL2

Bulletin PF



Spring-loaded plunger assembly. Quick lockout feature on Type PTL2 holds plunger in retracted position.

PF50

Bulletin PF



Low-profile panel fastener assembly with large knurled cap and Phillips recess for tool or hand operation.

ReelFast SMT

Bulletin SMT



Surface mount panel fastener to PC Boards.

PF60

Bulletin PF



Low-profile panel fastener assembly with large smooth cap and Phillips recess for tool or hand operation.

PFK

Bulletins K & PF



Broaching panel fastener assembly for mounting on P.C. boards.

NEW CAD DRAWINGS FOR ATLAS® BLIND THREADED INSERTS



Our PEM CAD Library now includes drawings of installed Atlas® blind threaded inserts in addition to renderings of uninstalled types. All can be downloaded.

The drawings of the installed fasteners allow designers to determine the exact "footprint" upon installation and to factor in other relevant information for the particular application.



Uninstalled

Installed

PennEngineering® Acquires 3V Fasteners Company, Inc.

PennEngineering® has acquired 3V Fasteners Company, Inc., which specializes in precision aerospace fastener products.

"This strategic acquisition offers advantages for both of our companies with inherent synergies in expertise, capabilities, operations, and growth opportunities," said Mark Petty, President and Chief Executive Officer of PennEngineering. "While 3V will significantly enhance and advance our Company's position in the aerospace fastener market, PennEngineering's technical capabilities and resources will contribute dynamic benefits enabling 3V to reinforce and build upon its established position in the industry."

3V Fasteners, founded in 1982 and based in Corona, CA, is a leading manufacturer of externally threaded aerospace fasteners and its products have approvals of the major global aircraft/aerospace OEMs.

Seizure Action Against FinExpress Fastener Co. Ltd.

PennEngineering® executed a seizure action against FinExpress Fastener Co. Ltd. of Guangzhou, China to enforce an order by the U.S. District Court for the District of Nevada granting a default judgment and permanent injunction against FinExpress. The seizure occurred at the 2008 National Industrial Fastener Show/West in Las Vegas, Nevada.

The judgment was issued as the result of FinExpress's failure to respond to a complaint filed by PennEngineering a year earlier (in 2007), which claimed that FinExpress had infringed one of PennEngineering's trademarks. The Nevada court ruled that PennEngineering was entitled to monetary damages and ordered that FinExpress immediately cease infringement of PennEngineering's trademarks.

PEM (China) Co., Ltd. Certified in Mechanical Testing

The American Association for Laboratory Accreditation (A2LA) has certified PEM (China) Co., Ltd. for technical competence in the field of Mechanical Testing.

The PEM laboratory, located in Kunshan, China, is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005, General Requirements for the Competence of Testing and Calibration Laboratories.

The scope of the accreditation allows the Company to perform tests on fasteners and materials, including hardness, external threads, and surface discontinuities, among others.

PennEngineering®



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