

SOLUTIONEERING

NEWSLETTER

Fastening Products, Systems, and Applications from the Industry Pioneer



DeltaForm™ Inserts for Plastics

Patented DeltaForm threaded inserts offer an economic alternative to traditional inserts or thread-forming screws in high-volume applications.

Key benefits: Reliable and reusable threads at half the price of standard metal inserts and twice the torque-out strength of thread-forming screws without associated risks of cross-threading during installation.

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FEATURED SPEAKER

Jay McKenna, Special Projects Manager for PennEngineering Fastening Technologies, will address attendees at the "Equipment Protection 2004" conference in June.

Topic: "Fastener Advancements for Enclosures and Equipment Protection Technology." The presentation will focus on self-clinching technology and fastener solutions.

Conference sponsor is "Equipment Protection." Visit www.equipmentprotectionmagazine.com

www.pennfast.com



In originating new products we have made significant inroads with "non-traditional technologies" in fastener manufacturing, including powdered metal, extrusion, stamping, and injection molding.

These processes have created hardware that otherwise could not exist and have enabled original and practical solutions for our customers.



Kenneth A. Swanstrom,
Chairman and CEO
PennEngineering



Inserts for Plastics

Our high-value DeltaForm brass insert with unique patented design provides strong reusable threads in any plastic material.

Threads accept standard machine screws and thread strength will typically exceed the strength of plastic.

Inserts are manufactured in a high-volume stamping process allowing low production costs while maintaining high quality.

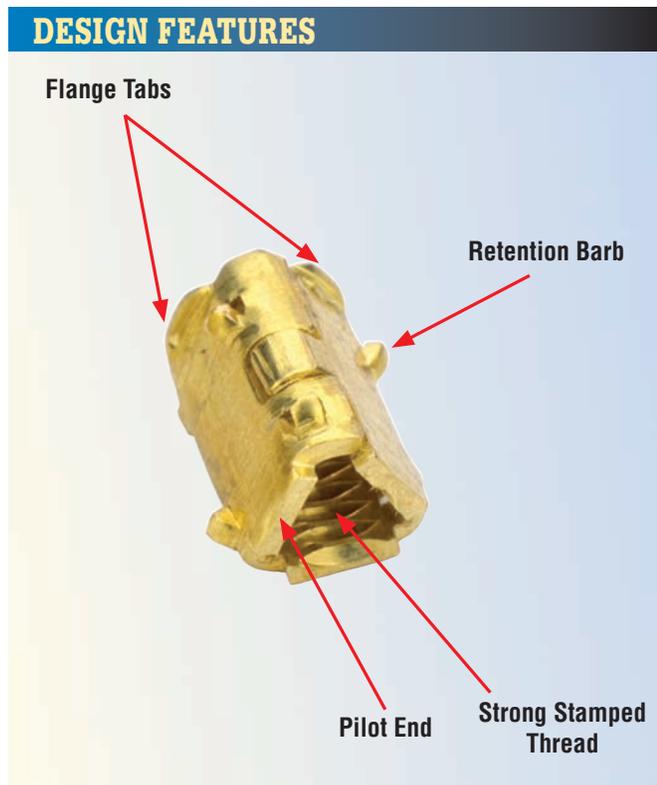
Flange tabs on either end orient the insert in the hole before installation and form a flush surface with the plastic component when installation is complete.

Pilot end positions each insert for installation.

Retention bars provide high pullout and prevent spin upon installation.

Quick and simple installation with ultrasonic, cold press, or heat staking methods.

Brass material imparts strength and rigidity and eliminates corrosion issues.



DeltaForm parts are available loose or on a carrier strip to accommodate handling needs.



(#6-32 shown)



Learn more at www.pennfast.com in the "New Products" section

NEW EQUIPMENT

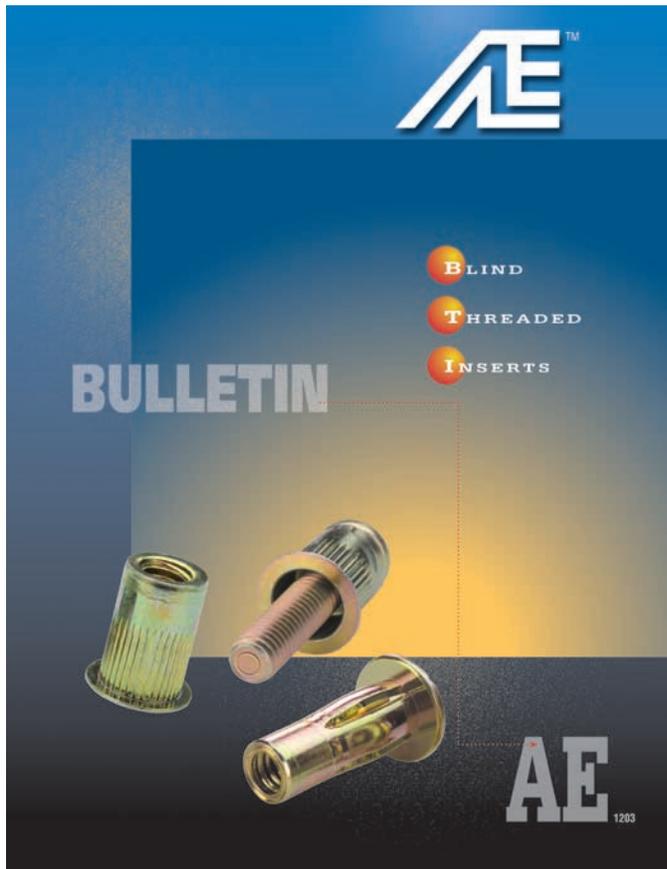
The PEMSERTER® In-Die Fastener Feeding System installs self-clinching nuts, studs, and standoffs in assemblies during the stamping process.

Working in tandem with a stamping press (and properly tooled die) to feed and install fasteners, this portable system eliminates secondary operations typically required for fastener insertions.

Users can realize increased productivity, quality, and savings and gain a competitive edge as the system allows a capability to perform two operations (stamping and fastener installation) simultaneously in the die.

The system is virtually “plug and play,” can be configured for multiple or single insertions, and can be customized to meet application requirements.

Operators are guided by a touch-screen (for set-up and operation) and an online library of fault/help screens.



NEW LITERATURE

A new 28-page product bulletin profiles our complete line of Atlas™ blind threaded inserts and studs, which can provide strong permanent metal threads in metal or plastic sheets as thin as .010"/0.25mm.

“Bulletin AE” covers fastener series, types, features, benefits, installation procedure, and performance data. Installation tools and custom hardware options also are reviewed.

Atlas brand aluminum, brass, steel, or stainless inserts and studs are designed for use in “blind” attachment applications, where only one side of a panel is accessible for fastener installation. They are ideal for tubing and extrusion applications.

Another advantage: During fastener installation, several thin sheets of dissimilar materials can be assembled and then final components can be attached. This capability eliminates any need to perform spot welding or other secondary operations, saving production steps, time, and costs.

"Bulletin AE" is free for downloading at www.pennfast.com



THREADED ACCESS HARDWARE NOW AVAILABLE WITH ANTI CROSS-THREAD TECHNOLOGY



PennEngineering Fastening Technologies is a licensee for MATHread® anti cross-threading technology. This patented design helps speed assembly and eliminates failures, repairs, scrap, downtime, and warranty service associated with thread damage.

MATHread® is a registered trademark of MATHread Inc.

- Eases assembly.
- Aligns components.
- Improves assembly line productivity.
- Slides through clogged internal threads.



HOW IT WORKS



ALTERNATE RETAINER MOUNTING STYLES

- Broaching
- Flare-in
- Floating

STANDARD RECESS



PennEngineering® Fastening Technologies develops and manufactures PEM® self-clinching and broaching fasteners, SI® inserts for plastics, and Atlas™ SpinTite®, MaxTite®, and Plus+Tite™ blind threaded inserts.

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

PennEngineering® Fastening Technologies

World Headquarters:

5190 Old Easton Road
Danboro, PA 18916 USA
E-mail: info@pennfast.com
Tel: 215-766-8853 • Fax: 215-766-3633

U.K. And Europe:

Kirk Sandall Industrial Estate
Doncaster, South Yorkshire • DN3 1QR, England
E-mail: uk@pennfast.com
Tel: 01302 893100 • Fax: 01302 885341

Asia/Pacific:

Citipoint Industrial Complex
152 Paya Lebar Road #03-06 • Singapore 409020
E-mail: arconix-sing@arconix.com
Tel: 6 745 0660 • Fax: 6 745 2400

Toll Free: 1-800-DIAL-PEM (USA Only) • Web Site: www.pennfast.com