

PennEngineering®

PEM[®]LINE

Fastening Products, Systems, and Applications from the Industry Pioneer

Flush-Head Studs with X-Press™ Threads *...for use with quick access plastic nuts and clips*



Quickly and securely
assemble or mount
components and
materials

Simply slide the plastic
mating nut or clip
down the threads
until tight

Unscrew the plastic
component just like any
other threaded hardware



Reduce Assembly Time
See Page 3



www.pemnet.com

RoHS COMPLIANCE LOOKUP TOOL

The screenshot shows the PennEngineering Fastening Technologies website. The top navigation bar includes links for Home, Contact & Find Us, News, and Employment. A search bar is located in the top right corner. The left sidebar contains a 'Quick Part Search' box, an 'Interactive Part Search' link, and a vertical menu with categories: Information Request, Fastening Products, Press & Installation Equipment, Technical Help & Learning Center (highlighted), CAD File Library, Representatives & Distributors, Tradeshow Calendar, Complete (PDF) Literature Files, and View ISO/QS Certification. The main content area is titled 'Technical Help & Learning Center' and features a 'Compliance Lookup' section dated May 2006. It provides instructions on how to use the tool, including selecting a fastener type and plating designation. A note specifies that Type 'S' and 'SL' fasteners have an exception for up to 0.35% lead in steel. Below the text are two dropdown menus for 'Type' and 'Plating Designation', and a 'Compliant Status' dropdown menu. A link is provided to request a complete compliant status in PDF format. The footer of the tool interface states: 'Compliance lookup applies only to current production of genuine PEM® brand fasteners and other PennEngineering Fastening Technologies™ products.'

Now you can quickly ascertain online whether a selected fastener type and plating complies with the European Union's RoHS restrictions on lead and other hazardous materials.

Our new tool has been introduced exclusively for users to check the compliancy status for all PEM®, SI®, and Atlas™ brand fastener products.

You can access directly from our Home Page at www.pemnet.com by clicking on “RoHS Compliance Lookup” tool under the “What’s New” section. Then select fastener type and corresponding plating designation and the system will follow through by displaying RoHS compliance results.

Our link further serves as an information source, including a section on “Frequently Asked Questions.”

The RoHS (Restriction of Hazardous Substances) directive by the European Union states that effective July 1, 2006, new electrical and electronic equipment must be free of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs), and polybrominated diphenyl ethers (PBDEs).

CLINCH FASTENER INSTALLATION TROUBLESHOOTING

PROBLEMS: Head of flush-head stud or standoff cups.

POSSIBLE CAUSES:

- Punch diameter too small or not hard and flat.

SOLUTIONS:

- Punch must be larger than head of stud or standoff

...and preferably equal to anvil diameter.



STUDS WITH X-PRESS™ THREADS

These new self-clinching steel flush-head studs install into steel or aluminum sheets as thin as .040"/1mm by pressing them into place with any standard press or during the stamping process using PEMSERTER® in-die automated technology.

They are available in thread sizes 5 x 1.6 and in lengths from .394"/10mm to .689"/17.5mm.

Stud Mounts securely in panel



- ▶ Self-clinching stud mounts flush in metal sheets as thin as .040"/1mm and greater.
- ▶ Thread design accepts paint, coatings, and under sealants without compromising performance.
- ▶ Replaces weld studs, cleanly and with attractive finished appearance.
- ▶ Can be installed during stamping process with PEMSERTER® in-die technology.
- ▶ RoHS compliant.

Mating Hardware Installs Quickly



- ▶ Press plastic mating nut down threads.
- ▶ Offers fast, reliable attachment.
- ▶ Reduces assembly time.
- ▶ Plastic mating hardware allows for lighter assemblies.
- ▶ Ideal for holding down soft materials such as foam, cloth or insulation since there is no over tightening that may tear or otherwise cause damage.

**Download free
product literature
for these fasteners
by visiting
www.pemnet.com**

**Click "New Capability"
under
"What's New"**

Just Unscrew To Remove



- ▶ Simply unscrew to remove. No tools are required.
- ▶ Nut can then be reinstalled.

NEW PRODUCT



Locknuts Install Closer to Edges

New PEM® self-locking nuts can be permanently installed in even thinner metal sheets and closer to edges.

These steel locknuts provide strong, reliable, and reusable locking threads and can serve ideally in thin-metal assemblies where space for hardware may be limited.

Final component attachment completes easily, since only the mating hardware is required.

Unique design features:

- An integrated nylon (non-metallic) locking element to prevent loosening of mating threaded hardware
- Broaching knurl to create a firm, interference-type fit resistant to rotation
- Shoulder to act as a positive stop during the installation process.

PEM (Type CFN) locknuts in thread sizes #4-40 and M3 install in sheets as thin as .036"/0.91mm.

CAD drawings for these fasteners are available free for downloading from www.pemnet.com

PennEngineering® develops and manufactures PEM® self-clinching, broaching, weld, and surface mount 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, the StickScrew® System for small-screw insertion, and Atlas tools.

PennEngineering®



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Visit our PEMNET™ Resource Center at www.pemnet.com