

PennEngineering®

PEM LINE

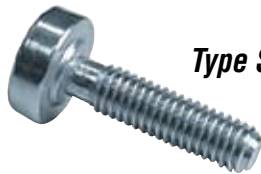
Fastening Products, Systems, and Applications from the Industry Pioneer

NEW FASTENER

PEM® Spinning Clinch Bolts



Type SCB with axial float.



Type SCBJ with jacking feature.

NEW PRESS

PEMSERTER® Series 3000™



**Fastener Provides Low-Cost
Captive Hardware Solution**

See Page 2

**Automatic Press Integrates
Full Servo Electromechanical
Actuation Technology**

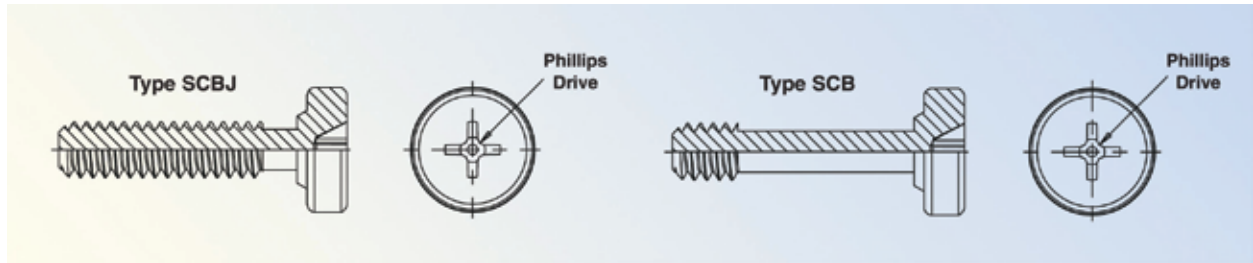
See Page 3

Discover New Design and Online Resources:

www.pemnet.com

PEM® FASTENER SOLUTION

Spinning Clinch Bolts



These new one-piece steel fasteners for thin metal panels offer extremely low-cost alternatives to expensive multi-component hardware assemblies.

They install securely using controlled clinching action to captivate the screw while allowing it to spin freely in the sheet. This enables quicker attachment of mating hardware by eliminating a need for loose fasteners such as screws and retaining clips or washers.

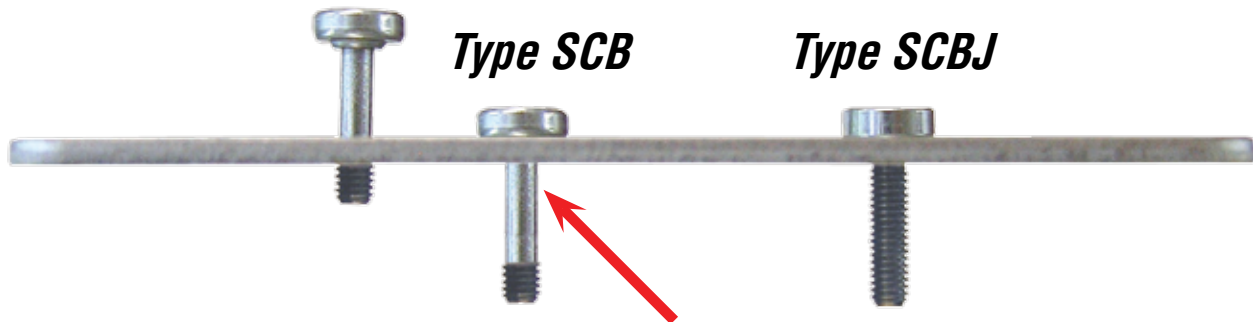
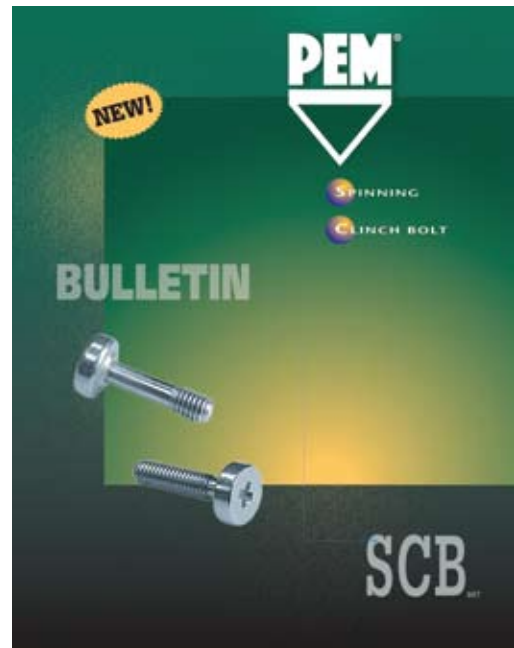


The family of PEM® spinning clinch bolts includes patented Type SCB™ fasteners (featuring an unthreaded neck for axial float) and Type SCBJ™ hardware with a jacking feature.

Both types are RoHS compliant; can permanently captivate into aluminum or steel sheets as thin as .040"/0.8mm (and greater); and can satisfy close-to-edge applications. They are available in various lengths and thread sizes from #4-40 through #6-32 and M3 through M4.

Literature and drawings are available at our website.

Download the bulletin at this link: http://www.pemnet.com/fastening_products/pdf/scbdata.pdf



**Non-jacking clinch bolt
features unthreaded neck for axial float**

PEMSERTER® EQUIPMENT SOLUTION

Series 3000™ Automatic Fastener-Installation Press



This new press delivers a machine cycle time up to 30% faster than traditional systems and has been introduced as the first and only full servo drive fastener insertion press on the market.

Full servo electromechanical actuation technology promotes improved operating consistency, reliability, efficiencies, and savings in maintenance. The servo drive optimizes ram function to achieve ideal and repeatable speed and force for proper fastener installation.



By eliminating hydraulic fluids, the press provides “clean” technology to install self-clinching fasteners in thin-metal sheets.

PC-based programming interfaces with Windows operating platforms for job versatility and customization; menu-driven touch-screen controls, descriptive screen alerts, and an on-screen multi-media instructional video contribute to user-friendly operation; data logging capabilities enable performance monitoring; and our patented LIGHTSTREAM® Operator Safety System safeguards by ensuring ram force is applied only to fasteners.

Specifications

Ram Force	1.8 to 71.2 kN / 400 to 16,000 lbs.
Ram Drive	Servo Electromechanical Actuator
Electric Requirements	240-250VAC, 60Hz, 50A, single phase or 240-250VAC, 50Hz, 50A, single phase
Air Requirements*	5 to 6 BAR / 80 to 90 PSI 6 mm / 1/4" dia. minimum line flow
Throat Depth	61 cm / 24"
Height	208 cm / 82"
Width	92 cm / 36"
Depth	126 cm / 49.5"
Weight	1,235 kg / 2,725 lbs.

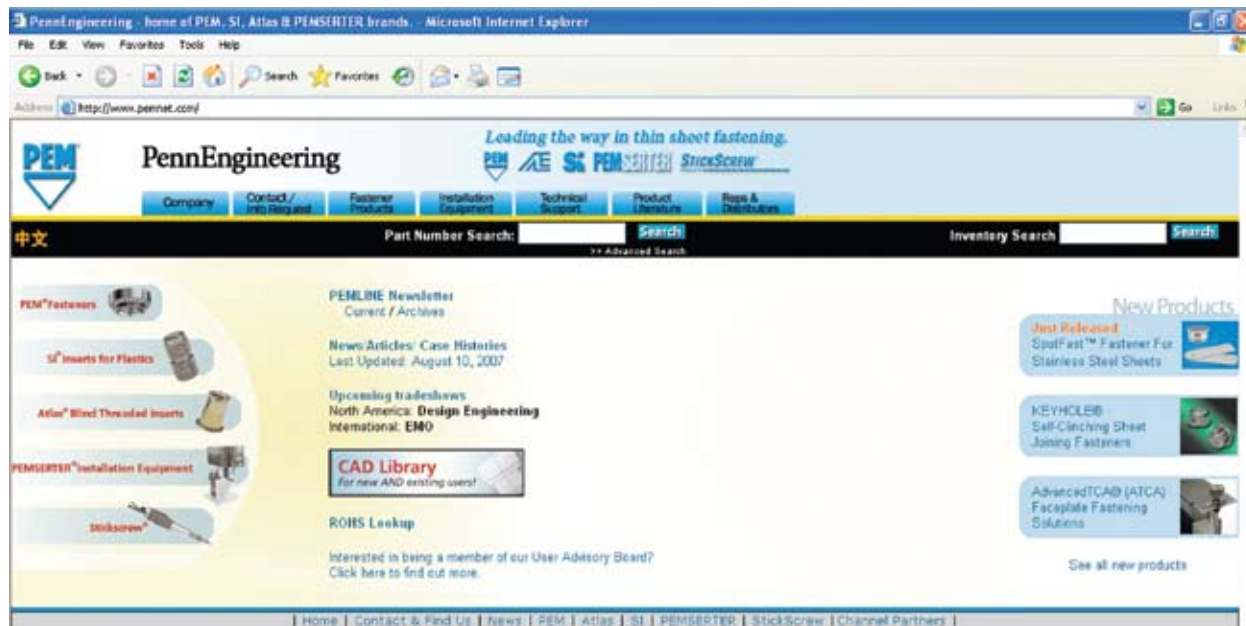
*1 psi = 0.07 bar. 1 bar = 14.5 psi.

Shown with optional auto-position turret anvil tool



VISIT OUR RE-LAUNCHED WEBSITE

www.pemnet.com



WE'VE UPGRADED OUR DEDICATED SERVICE SUPPORT TEAM

Our newly upgraded customer-oriented applications engineering team is dedicated to address all specific application and technical support issues, whether from customers, representatives, or distributors. The team is responsible for application engineering, quote processing, responses to questions, and coordinating and tracking tech lab requests.

Toll-Free Phone: 800-237-4736, Ext. 1217
Email: techsupport@pemnet.com

Newly expanded sections include **“Frequently Asked Questions,”** a **“Glossary of Terms”** relating to all our fastener products, an enhanced **“Advanced Parts Search”** capabilities tool, and **“Product Literature”** page fully illustrated with images of bulletins for easy visual reference and free for downloading.

These are in addition to the popularly visited and used **CAD Library** and **RoHS compliance lookup tools, conversion charts and technical data.** View **online tutorials,** read **product news,** and access the PennEngineering authorized **engineering representatives and distributors** worldwide.

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®



North America: Danboro, PA 18916 USA • E-mail: info@pemnet.com • Tel: +1-215-766-8853 • Fax: +1-215-766-0143 • 800-237-4736 (USA Only)
U.K. And Europe: Doncaster, England • E-mail: uk@pemnet.com Tel: +44 (0)1302 765700 • Fax: +44 (0)1302 367580
Asia/Pacific: Singapore • E-mail: singapore@pemnet.com • Tel: +65-6-745-0660 • Fax: +65-6-745-2400
Shanghai, China • E-mail: china@pemnet.com • Tel: +86-21-5868-3688 • Fax: +86-21-5868-3988

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