

Flush-head Studs With X-Press™ Threads

for use with quick access plastic nuts and clips.

X-Press threads allow you to quickly and securely assemble or mount components and materials by simply sliding the plastic mating nut down the threads until tight.

To remove the nut, simply unscrew it just as you would any other threaded hardware.

The self-clinching studs are installed in metal sheets by pressing them into place with any standard press. They can also be installed using automated equipment during the in-die process.

Contact your local PEM representative for more information.

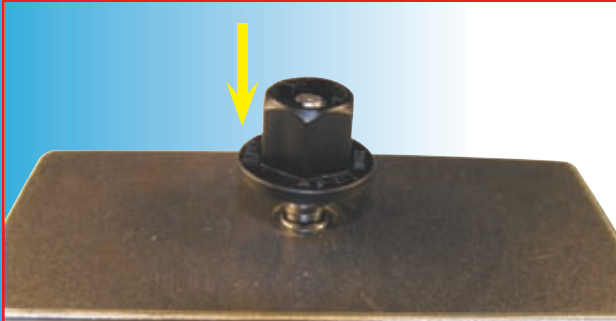


Stud Mounts securely in panel



- ◆ 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



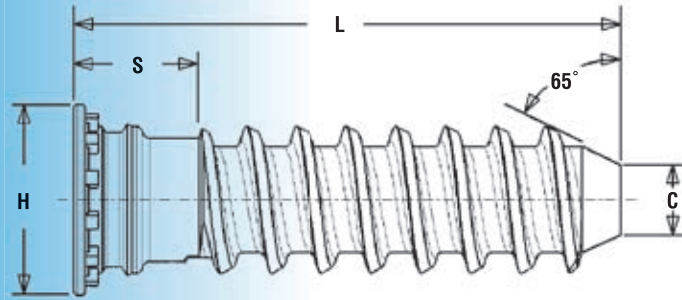
- ◆ Press plastic mating nut down threads.
- ◆ Offers fast, reliable attachment.
- ◆ Reduces assembly time.
- ◆ Plastic mating hardware allows for lighter assemblies.
- ◆ Ideal for holding down soft materials such as foam, cloth or insulation since there is no over tightening that may tear or otherwise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

Just Unscrew To Remove

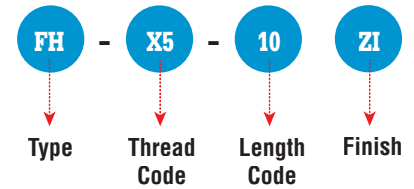


- ◆ Simply unscrew to remove. No tools are required.
- ◆ Nut can then be reinstalled.

Flush-head Studs With X-Press™ Threads



Standard Part Number Designation



Thread Size x Pitch mm	Part Number	Length ±.015" / ±0.4mm	Min. Sheet Thickness	Hole Size in Sheet +.003" -.000" / +0.08mm	H ±.015" / ±0.4mm	S Max.	C ±.010" / ±0.25mm
5 x 1.6	FH-X5-10	.394" / 10mm	.040" / 1mm	.201" / 5.1mm	.256" / 6.5mm	.157" / 4mm	.106" / 2.7mm
5 x 1.6	FH-X5-15	.591" / 15mm	.040" / 1mm	.201" / 5.1mm	.256" / 6.5mm	.157" / 4mm	.106" / 2.7mm
5 x 1.6	FH-X5-20	.787" / 20mm	.040" / 1mm	.201" / 5.1mm	.256" / 6.5mm	.157" / 4mm	.106" / 2.7mm
5 x 1.6	FH-X5-25	.984" / 25mm	.040" / 1mm	.201" / 5.1mm	.256" / 6.5mm	.157" / 4mm	.106" / 2.7mm
Developmental parts presently available for evaluation							
5 x 1.6	FH-X5-11.75	.463" / 11.75mm	.040" / 1mm	.201" / 5.1mm	.256" / 6.5mm	.157" / 4mm	.106" / 2.7mm
5 x 1.6	FH-X5-15.20	.598" / 15.2mm	.040" / 1mm	.201" / 5.1mm	.256" / 6.5mm	.157" / 4mm	.106" / 2.7mm
5 x 1.6	FH-X5-17.50	.689" / 17.5mm	.040" / 1mm	.201" / 5.1mm	.256" / 6.5mm	.157" / 4mm	.106" / 2.7mm

Performance Data in Sheet

Sheet	Installation (kN)	Pushout (N)
1.5mm Steel	33.4	2000
1.5mm Aluminum	24.5	1070

Stud Material & Finish Specifications

Fastener Material: Low Carbon Steel

Finish: ZI - Zinc Plus Clear Chromate
X - Rust Preventative Oil

For Use in Sheet Hardness: 80 or less on the Rockwell "B" Scale

To be sure that you are getting genuine PEM® brand fasteners, look for our "dimple" registered trademark.



Examples of plastic components that can be used with the PEM® X-Press™ studs.



Please contact us for more information.

PennEngineering®

www.pemnet.com