



## PennEngineering

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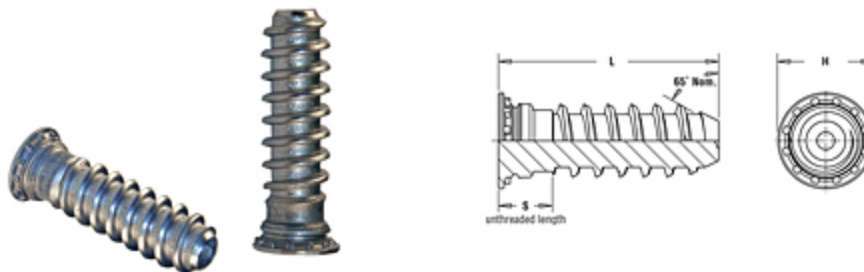
**Website:** [www.pemnet.com](http://www.pemnet.com)

## Part # FH-X5-20ZI, Flush-Head Studs with X-Press™ Thread Profile – Type FHX – Metric

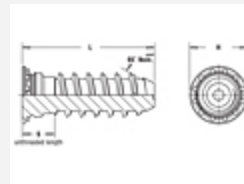
PEM® self-clinching, flush-head studs with X-Press™ threads are typically used with push-on or other plastic fasteners. The coarse thread design of the thread reduces assembly time and provides high retention force.

These 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.

PEM® studs with X-Press™ threads are available with 5 mm and 6 mm metric threads. Lengths range from [+ more](#)



### Specifications

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| <b>Thread Size x Pitch</b>       | 5 mm x 1.6                                                                            |
| <b>Thread Code</b>               | X5                                                                                    |
| <b>Length Code</b>               | 20                                                                                    |
| <b>Min. Sheet Thickness</b>      | 1 mm                                                                                  |
| <b>Hole Size in Sheet + 0.08</b> | 5.2 mm                                                                                |
|                                  | 20 mm                                                                                 |
| <b>L - Length ± 0.4</b>          |  |
| <b>H ± 0.4</b>                   |                                                                                       |
| <b>S Max.</b>                    | 4 mm                                                                                  |
| <b>For Use in Sheet Hardness</b> | HRB 80 / HB 150 or less                                                               |
| <b>Fastener Material</b>         | Hardened Carbon Steel                                                                 |
| <b>Standard Finish</b>           | Zinc plated per ASTM B633, SC1 (5µm), Type III, colorless                             |

CAD Supplier

PennEngineering®  
(PEM®)