

Fasteners Ideally Suited for Compact Electronics



PennEngineering® has introduced a new and growing family of microPEM™ fasteners ideally suited for applications in compact electronic assemblies. These extremely small fasteners can serve as practical, cost-effective, and permanently secure solutions enabling quicker assembly of devices ranging from hand-held consumer electronics to medical equipment, among others.

Standard types of microPEM fasteners include PEM® Type MSO4™ self-clinching standoffs and PEM® Type MPP™ self-clinching locating pins. Additional microPEM fastener types from tack pins to screws can be supplied.

Type MSO4 standoffs for spacing applications are manufactured from 400 Series stainless steel with threads as small as M1.0 / #00 and available in lengths as short as 2mm / .080". The standard product can be installed into sheet metal (including 300 Series stainless steel) as thin as 0.4 mm / .016" with maximum hardness up to HRB 88 on the Rockwell "B" scale. Applications requiring installation in sheets as thin as 0.2mm have also been satisfied with specially engineered microPEM standoffs.

Type MPP micro pins for locating/positioning applications are manufactured from age-hardened A286 stainless steel and designed with diameters as small as 1mm / .040" and in lengths as short as 2mm / .080". They can be installed permanently into stainless steel or other sheet materials as thin as 0.5mm / .020" with hardness up to HRB 92 on the Rockwell "B" scale.

Source URL (retrieved on 01/31/2015 - 4:15am):

<http://www.mdtmag.com/product-releases/2011/08/fasteners-ideally-suited->

Fasteners Ideally Suited for Compact Electronics

Published on Medical Design Technology (<http://www.mdtmag.com>)

[compact-electronics](#)