Self-Clinching Fasteners

MDT Staff

PEM® SpotFast® self-clinching fasteners enable two sheets to be joined permanently in a flush-attachment connection without protrusions on either side. These practical alternatives to riveting or spot welding provide ideal solutions to attach two metal sheets too thin to weld, fasten sheets of unequal thicknesses, join dissimilar metals, attach ultra-thin metal sections, or join metal sheets to PCB or plastic panels. Their rotational capability offers additional application advantages by allowing the fastener to act as a hardened pivot point.

SpotFast fasteners install smooth with the top sheet and flush or sub-flush with the bottom sheet. Unlike rivets that “bulb” during installation, this hardware allows for unobtrusive flush attachment requiring minimal space. Unlike spot welding, a smooth surface is retained for finishing and the fasteners subsequently can be concealed easily with paints or powder coatings.

The SpotFast product family includes Type SF steel fasteners for metal-to-metal attachment, Type SFP precipitation hardened stainless steel fasteners for installation into stainless sheets where corrosion resistance may be required, Type SFW steel fasteners with supplied wave washer for metal-to-metal single point hinging applications, and Type SFK steel fasteners featuring two separate joining profiles allowing attachment of metal sheets to PCB or plastic panels.

Standard parts in various head diameters and sizes can be installed in aluminum or steel sheets as thin as .030” / 0.8 mm. Detailed specifications, CAD models, and performance data (Bulletin SF) for these RoHS-compliant fasteners can be accessed at the company’s website.

For more information visit www.pemnet.com [1].

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