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ENGINEERING

ALUMINUM SI® THREADED INSERTS FOR PLASTICS FOR LIGHTWEIGHT ALTERNATIVES TO BRASS COUNTERPARTS

Aluminum SI threaded inserts from PennEngineering® introduce lead-free and lightweight alternatives to brass counterparts.

FEATURES & BENEFITS

- Approximately 70% lighter than brass equivalents
- Offers solutions to eliminate environmental issues
- Can be specified for all types of SI inserts
- Augments standard brass and corrosion-resistant stainless steel products.
- Provides durable and reusable metal threads in plastics to accept mating hardware
- Allows for access to an assembly whenever required.
- Installs permanently

The SI product line for plastic assemblies includes ultrasonic / heat staking inserts for installation ultrasonically or with a thermal press, molded-in types installed during the molding process, and press-in types installed by pressing the insert into a pre-molded or drilled hole.

Unlike fixed and unyielding joining methods (such as adhesives or rivets), the inserts ultimately offer the capability to disassemble and re-attach plastic components easily and quickly without damaging the threads, compromising attachment integrity, or otherwise adversely impacting an assembly.

SI threaded inserts have been engineered in a variety of designs and lengths – including micro fastener versions with threads as small as M1 – and can be supplied in unified or metric thread sizes. Detailed specifications, fastener drawings and models, and performance data are available.

Applications Include Plastic Enclosures or Components for:

- Automotive
- Consumer Electronics
- Medical Aerospace
- Transportation
- Recreational Industries
- Many others

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