**SI® THREADED INSERTS:**
**PROVEN PERFORMANCE IN PLASTICS FOR AUTOMOTIVE ELECTRONICS**

Precision-machined SI® brand inserts are engineered to provide strong, reusable, wear-resistant threads in plastic. And as automakers convert more assemblies from metal to plastic, SI® threaded inserts have been specified for many types of applications – especially those where frequent assembly and disassembly are required for serviceability.

**Designed for Automotive Electronics Applications**
- Control Modules
- Current-Carrying Devices
- Busbar
- Powertrain
- Thermal Management
- Housings – Cameras, Taillights
- Electric Vehicles

**Why SI® Threaded Inserts?**

**Wear-Resistant Threads**
The engineered external features of SI® inserts create strong, wear-resistant threads in plastic where assembly/disassembly is needed.

**Strong Joint Assembly**
Unlike thread-cutting screws that degrade plastic with repeated use, SI® inserts maintain a strong joint assembly.

**Electrical Connection Point**
SI® inserts are often used to provide an electrical contact point for various connectors within the plastic part.

**Close Tolerance Threads**
SI® inserts provide close tolerance threads for mating components (Unified: Class 2B/internal and Metric: 6H/internal)

**SI® Compression Limiters**
SI® Compression Limiters are non-threaded inserts for applications where compressive load is applied to a plastic assembly – in control modules, housings, thermal management systems, and more.
- Compression limiter strengthens the plastic and withstands the compressive force that’s applied when mating screw is tightened during assembly
- Plastic integrity is uncompromised by the applied load
- Custom-engineered for a wide range of sizes and profiles
- Flexible materials – brass, stainless steel, lead-free aluminum

**Flange-Head**
(all installation methods)
Larger contact area provides high resistance to axial loads and eliminates direct contact of plastic with mating components.

**Symmetrical**
(all installation methods)
Symmetrical design offers fast loading without the need to orientate the part.

**Full Diamond Knurl**
(mold-in installation)
Symmetrical design and uniform diamond knurl reduces the risk of sink marks.

**Non-Knurled Symmetrical**
(mold-in installation)
Symmetrical design with retention groove for use in automation and high-volume applications needing compressive load resistance.
Installation Methods
SI® inserts are manufactured for all common installation methods:

Ultrasonic
Great for: Thermoplastics
High overall performance
VIDEO: Ultrasound Animation

Heat Staking
Great for: Thermoplastics
High overall performance with low installation cost
VIDEO: Heat Staking Animation

Mold-In
Great for: Thermosets & Thermoplastics
Best pull-out and torque performance
VIDEO: Molded-In Animation

Press-In
Great for: Thermosets
Easy, simple press installation at lowest cost
VIDEO: Press-In Animation

Materials and Finishes
Brass
• Industry standard
• Lowest cost

Stainless Steel & Aluminum
• SI® is the industry leader for stainless steel and aluminum inserts
• Only insert manufacturer to offer aluminum as a catalog standard (lead-free and 70% lighter than brass)
• Stainless Steel offers better protection from certain types of corrosive agents
• Smart alternatives to leaded brass that support sustainable manufacturing

Get SI® Support Anytime, Anywhere
No matter where you are in the world, our value-add services are there. With locations throughout North America, Asia and Europe you'll get complete global support at the local level.

Application Engineering Services
• Application Review
• Custom Design/Product Development
• 3D Models
• Teardown Services

Technical Lab Services
• Product Testing worldwide
• State-of-the-art Clean Lab capabilities

SI® Prototype Kit
• 1,000+ ultrasonic, mold-in, press-in inserts
• Various types/sizes for your specific design requirements

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