

MaggCert®

Threaded Insert for Magnesium



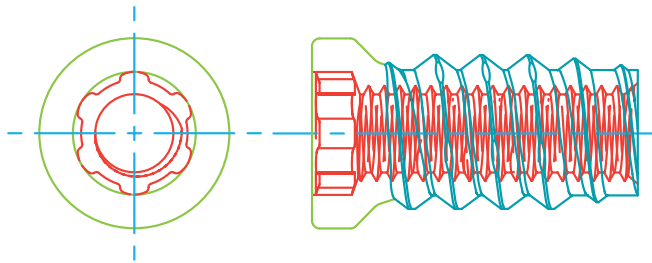
MaggCert threaded insert is a thread forming insert for magnesium automotive components that allows machine screws to be applied at final assembly and later removed and reinstalled for servicing. It bypasses the need for hole tapping operations, minimizes debris generation during installation, virtually eliminates serviceability problems caused by galvanic corrosion. MaggCert threaded inserts combine high mechanical strength and quick removal and reinsertion of screws, without serious concerns over galvanic corrosion. They provide a securely anchored joint and establish a fastening point for standard machine screws.”

Features

- Mag-Form® external threads
- Standard Machine Screw internal threads
- Torx Plus® Drive System

Benefits

- Eliminates need to tap threads
- Makes magnesium joints fully serviceable
- Requires minimal end load to start
- Virtually eliminates thread forming debris
- Eliminates magnesium thread damage during service
- Uses machine screws at final assembly



Specifications

- Available in sizes M4, M5, M6, M8 and M10

Industry Applications

- Engine Block
- Seat Frames
- Power Tools
- Radiator Supports
- Cross Car Beams

MaggCert steel inserts have the same broad flank angle as Mag-Form® thread forming screws, compressing rather than roll forming threads into die-cast magnesium. The Mag-Form design eliminates thread fractures while decreasing shear stress. MaggCert external threads and machine screw internal threads are packaged into a thin head design installed by an Torx Plus® drive bit, elliptically shaped to broaden contact surfaces while maximizing driver engagement and torque transfer. A zero degree drive angle eliminates radial stresses and straight sidewalls prevent camout.

Magnesium applications offer significant cost savings and numerous other benefits versus steel and aluminum, but present a new variety of challenges due to its low ductility and corrosion concerns. MaggCert Threaded Inserts overcome those typical fastening problems, providing cost savings and improved product.