FONTANA GRUPPO
FASTENING THE FUTURE

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, and 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

- MagForm® 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

INDUSTRY APPLICATIONS

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

SPECIFICATIONS

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

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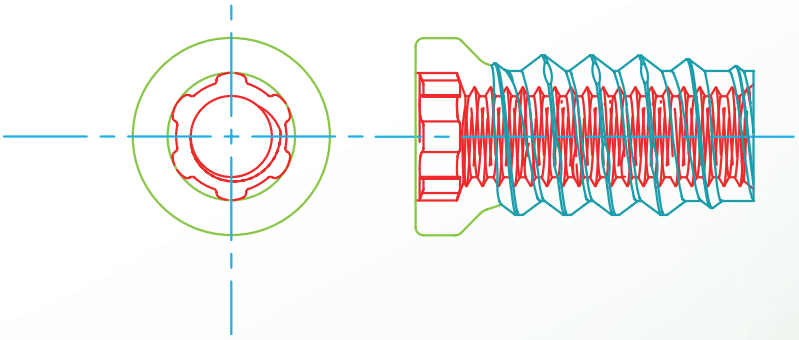
WITH TORX PLUS® DRIVE SYSTEM AS A BASE, MAGGCERT® THREADED INSERTS TAKE ON AN IMPRESSIVE ROLE.

SUGGESTED HOLE SIZES FOR DIE-CAST MAGNESIUM*

MaggCert® threaded inserts use all the features and benefits of TORX Plus® Drive System to your best advantage. It's longer tool life and optimal torque transfer have increased product reliability, increased productivity, and reduced total assembly costs on assembly lines in a multitude of industries around the world.



Features

- 0° drive angle
- Elliptical geometric configuration
- Large cross-sectional area at lobes
- Vertical sidewalls

Benefits

- Provides an average 100% improvement in drive bit life
- Can reduce assembly downtime by reducing the number of bit changes and rework
- Optimizes torque transfer
- Virtually eliminates camout
- Reduces end load and worker fatigue
- Reduces annual drive bit costs

COST SAVINGS

An Acument engineer focuses on optimizing part design and reducing the manufacturing cost of a part to help you meet your price reduction targets.

MaggCert® steel inserts have the same broad flank angle as Acument 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 Acument Torx Plus® drive bit, elliptically shaped to broaden contact surfaces while maximizing driver engagement and torque transfer. A 0° 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.

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