

When a rotating fastener is misaligned with a tapped hole, a no-start condition or cross threading can occur. The Acupoint® fastener was developed by Acument™ Global Technologies to overcome both of these assembly problems. As the fastener is driven, the Acupoint feature locates the tapped hole and provides proper alignment to ensure positive thread engagement.



### STANDARD DESIGN GUIDELINES

**Sizes:** M2.5 thru M12  
#2, #5, #10, 1/4"

**Thread Design:** Machine screw; others as specified

**Head Design:** Can be used with all external head designs; also available in studs

**Drive System:** Can be used with all fastener drive systems, including TORX PLUS® Drive

**For more information on how the Acupoint feature can benefit your application, please contact:**



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### SOLVES COMMON ASSEMBLY LINE PROBLEMS

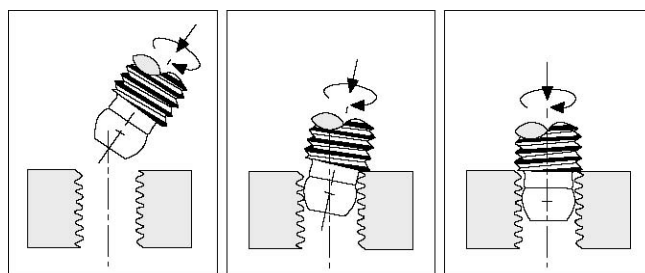
The Acupoint anti-cross-threading feature provides for rapid thread engagement and greatly reduces cross threading on the assembly line.

#### FEATURES

- Truncated spherical point quickly locates the hole to help align the fastener
- Point length minimizes application interference
- Economical design since the point is roll formed
- Point length and diameter designed to avoid thread engagement in misaligned conditions

#### BENEFITS

- Resists cross-threading and no-start conditions to reduce assembly problems
- Rapid engagement improves productivity
- Compensates for off-angle and off-center conditions



### CAN BE USED IN A BROAD RANGE OF APPLICATIONS

The Acupoint fastener can be used in a wide variety of applications where cross-threading commonly occurs. Typically used with machine screw threads, it can be applied to a broad range of fastener styles. In addition, its design minimizes point interference so it can be used in a wider variety of applications, as compared to competitive designs.



### EXCELLENT PERFORMANCE IN OFF-ANGLE CONDITIONS

During initial laboratory testing, the Acupoint fastener has shown excellent performance in off-angle and off-center positions when compared to machine screws. Fasteners with the Acupoint feature showed a 97% starting rate at an off-angle of 30°. A machine screw had a 0% starting rate at 15°.

In the off-center position, the Acupoint design showed a good start 100% of the time at 2.40mm off-center and 91% at 2.90mm. A machine screw demonstrated a 73% starting rate at 2.40mm and 44% starting rate at 2.90mm.