

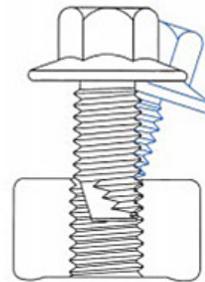
## The TRU-START® Standard Fastener

Item: 1249

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Cross threading - it occurs every day in many factories as products are assembled with threaded fasteners. At some sites it is so common that for the more troublesome applications, special repair screws of the same pitch, but one size larger in diameter are stocked for replacement purposes. The rework and repair costs can be huge, but are often accepted as standard operating procedure. Now, there is a fastener designed to prevent cross threading and its associated costs - The TRU-START® fastener. The unique TRU-START® point design not only prevents cross threading in tapped holes, but also locates and aligns the fastener when entering a tapped hole. The absence of threads along one side of the fastener prevents the fastener from engaging the nut threads while the nut threads are at an angle. The orientation and angle of the point were developed in relationship to the fastener's thread helix angle.

All these features add up to cost savings, because cross threading, even in a small percentage of assemblies, can be very expensive. Cross threading can damage or destroy an assembly causing unnecessary down time, expensive repairs, and/or the complete loss of an expensive component. An even higher cost can result from cross threaded joints that are not detected at assembly, because cross threading is not always readily apparent during assembly. Often the joint appears satisfactory and offers little evidence that the joint formed is incapable of withstanding its intended design loads. TRU-START® fasteners were developed in response to end-user demands to reduce costs by preventing cross threaded joints.



### Applications

Primary applications for TRU-START® fasteners are when:

#### 1. Cross threading is likely to occur:

- Limited visibility
- Difficult or restricted access
- Soft metal nut members
- Fine pitch fasteners
- Mis-aligned components

#### 2. Cross threading is hard to detect:

- Automated assemblies
- Soft metal nut members
- Small diameter fasteners
- Low torque applications
- High speed power driven fasteners

#### 3. Cross threading causes costly repair:

- Expensive castings
- Complex assemblies
- Automotive bodies and engine blocks
- Any fastener installed in the final assembly stages
- Expensive downtime

### Availability

The TRU-START® point style places little restriction on the configuration that you can specify for a TRU-START® part. TRU-START® fasteners can be manufactured with virtually any head, drive, or shoulder style. Metric and inch sizes are both

available. Any finish can be specified.

### **Off Angle Capability**

*Off angle driving is typically what causes cross threaded assemblies. While few applications are intentionally designed for off angle driving, due to limited visibility, awkward access or operator fatigue, off angle driving conditions actually occur in many cases. TRU-START® fasteners are self-aligning and pick up the nut thread correctly when introduced to threaded nuts at an angle.*

**Holbrook Manufacturing, Inc.** 288 Holbrook Drive Wheeling, IL 60090  
Phone: 847.229.1999 Fax: 847.229.0996 Email: sales@holbrookinc.com  
ISO 9001:2008 Certified

[www.holbrookinc.com](http://www.holbrookinc.com)