TORX PLUS® Drive System

Consistently outperforms other drive systems

Engineered to enhance Assembly Line Performance

Most drive systems can cause problems on the assembly line that affect assembly speed, downtime, product design, worker comfort and increased rework and scrapped components:

The 60° drive angle of hex drives is inefficient in transferring torque. Plus, the hex point contact can cause stress risers to develop which damage driver bits and fastener recesses.

Camout, common in cruciform drive systems (Phillips®, ACR®, Phillips II® and Pozidriv®), forces the tool out of the recess and can prevent a fastener from being fully seated. This combined with tool and recess wear can cause debris in an application. Excessive end load, which is required to prevent camout, can reduce bit life and cause worker fatigue or injury.

The proprietary TORX PLUS® Drive System, engineered to enhance assembly line performance, is a drive system designed to ensure optimal torque transmission and, as a result, required clamp load. Manufacturers all over the world have realized significantly longer tool life, easier assembly, higher quality products and reduced in-place costs by switching to the TORX PLUS® Drive.

TORX PLUS® Drive benefits your Assembly Line

- Proven to decrease downtime
- Reduces annual drive tool costs
- Minimizes rework

Greatly increased Strength and Reliability over TORX® Drive

- 100% average improvement in driver bit life – many customers report driving 2 to 10 times more fasteners per bit
- 25% average improvement in driver bit torsional strength
- Increased bit strength allows for higher removal torque capability

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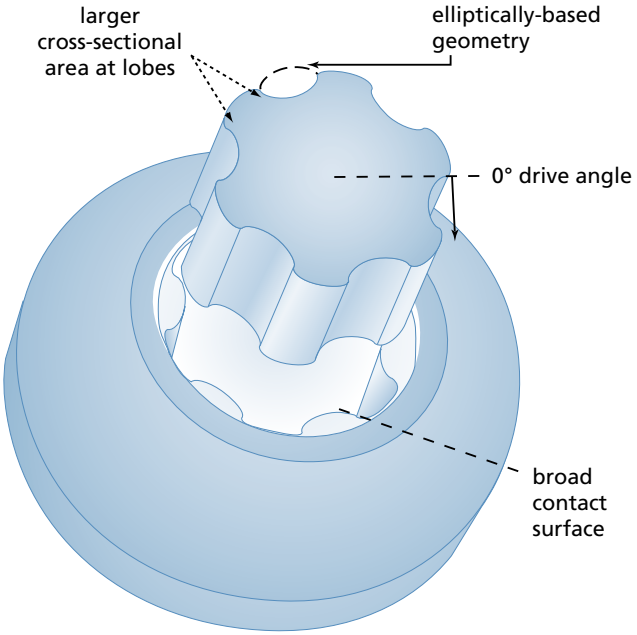

Features and Benefits

- Straight sidewalls and reduced recess fall-away
  - Increase tool engagement
  - Virtually eliminates camout
  - Ensures proper torque transfer
  - Greatly reduces end load requirements
  - Can reduce worker fatigue and muscular stress during manual assembly
- Elliptically-based geometry and lobe engagement
  - Broadens contact surface to maximize engagement of driver and recess
  - Eliminates damaging point-to-point contact
- 0° drive angle
  - Optimizes torque transmission
  - Virtually eliminates radial stresses to increase tool bit life
  - Enables use of recesses with thinner walls
- Six lobes with large cross-cectional areas
  - Enables faster tool engagement
  - Maximizes torque transfer
  - Increases torsional strength
- Inch and metric in one drive tool
  - Same-sized drive tool seats both inch- and metric-sized fasteners
  - Add or convert to metrics without a tooling change
  - Reduces the number of tools required by field service personnel

TORX PLUS® Drive Styles

- Internal/recess
- Internal with AUTOSERT® feature for high RPM engagement
- External for high torque transfer
- Low-profile external for high torque transfer with low head height
- Tamper-resistant design
- Stem fasteners/double-end studs, including TORX PLUS® Maxx design
- Dual drive systems (with slotted head or external hex head)

STANLEY
Engineered Fastening

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