

TORX PLUS® DRIVE SOLVES ASSEMBLY PROBLEMS



Perhaps you have come to accept frequent tool bit changes, camout, damaged components and slowed assembly lines as a cost of using fasteners in your product. But it doesn't have to be that way.

The TORX PLUS® Drive was designed to enhance assembly line performance. Manufacturers all over the world have realized significant improvements and cost savings by switching to the TORX PLUS Drive.

Most Common

Fastener Driving Problems*

Camout and tool slippage: 71%



Poor tool/fastener engagement: 44%



Excessive tool wear: 23%



Achieving desired clamp load: 24%



Fastener drive wear: 21%



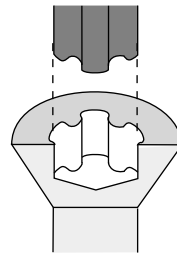
Worker fatigue: 17%



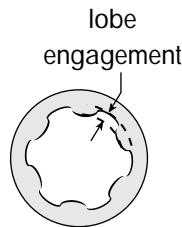
Excessive end load requirements: 8%



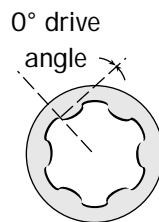
TORX PLUS® Drive SOLUTIONS



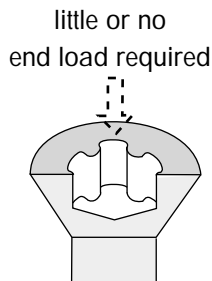
The straight, vertical sidewalls of the TORX PLUS Drive System **virtually eliminate camout**. Also, the TORX PLUS recess completely encloses the driver tip, **reducing tool slippage** as well as costly and unsightly damage to the fastener and surrounding surfaces.



The elliptically-based geometric configuration of the TORX PLUS Drive System **maximizes engagement** between driver and fastener. It spreads driving forces over the surface area, **extending tool life**.



TORX PLUS Drive is the only drive system designed to **ensure optimum torque transmission** and, ultimately, required clamp load. With a true 0° drive angle, the TORX PLUS system virtually eliminates the radial forces that can cause stress on fastener recesses.



Ergonomic studies demonstrate that the TORX PLUS Drive System can **reduce fatigue and muscular stress** during the manual assembly of fasteners. That's because little or no end load is required to keep the driver engaged in the recess.

*Results of a Design News/Cahners Research study on fastener drive styles, published March 1998. Respondents were design engineers involved in product or system design.