

# 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%



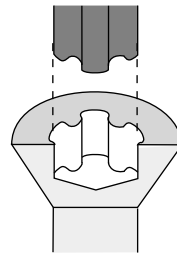
Worker fatigue: 17%



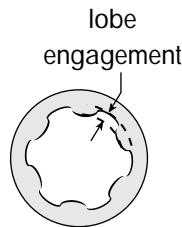
Excessive end load requirements: 8%



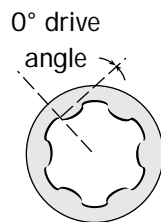
## TORX PLUS® Drive SOLUTIONS



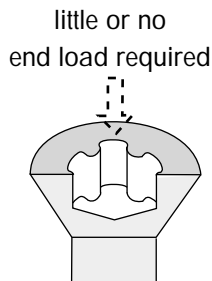
The straight, vertical sidewalls of the TORX PLUS Drive System **virtually eliminate camout**. Also, the TORX PLUS recess completely encloses the driver tip, **reducing tool slippage** as well as costly and unsightly damage to the fastener and surrounding surfaces.



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.