

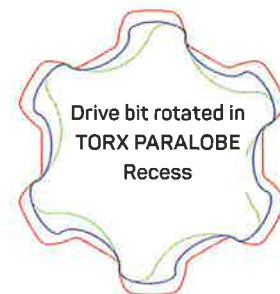
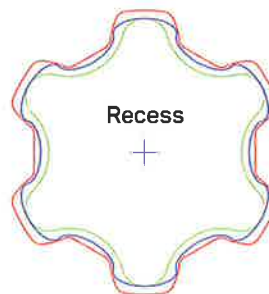
OUTPERFORMING EVERY OTHER DRIVE SYSTEM.

The TORX® PARALOBE™ Drive System was developed by Acument Global Technologies and was born as a result of listening to our customer's needs, and concerns with other drive systems. It also improves upon the benefits of our TORX® and TORX PLUS® drive systems by increasing drive bit strength, improving drive bit life, and increasing torque 20% over TORX PLUS® drive system; 40% over TORX® drive system!



FEATURES

- Unique geometry, patentable drive system
- Greater drive system cross-sectional area versus TORX® and TORX PLUS® drive system
- 'Full surface drive contact' with reduced drive bit/recess contact stresses versus TORX® and TORX PLUS® drive systems
- Vertical straight sidewalls
- Reduced bit/recess wobble producing a more solid 'fit'
- Controlled gaging
- Oversized recess lobe option



- TORX® PARALOBE™
- TORX PLUS®
- TORX®

TORX® PARALOBE™ drive system has greater cross-sectional area versus TORX® and TORX PLUS® drive systems

BENEFITS

- Lobe geometry increased ~6% over TORX PLUS® drive system producing:
 - ~20% greater drive bit torsional strength
 - ~20% greater drive system strength
 - ~100% greater finite drive bit fatigue life
- Drive size consideration may improve head strength ratio and weight reduction
- Potential for less coating damage during installation
- Oversized recess lobe option reduces effects of recess fill from heavy coatings

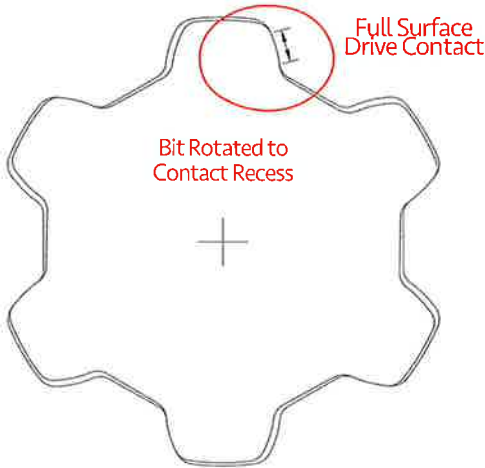
IDEAL APPLICATIONS

- Ultra high strength fasteners
- Aerospace fasteners
- Torque-to-yield applications
- Cutter screws
- Miniature screws
- Fasteners with heavy coatings

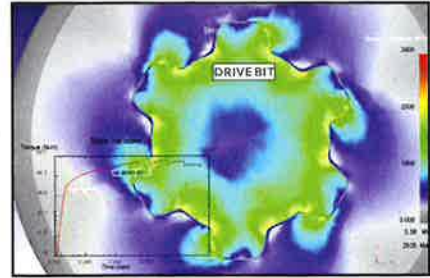


TORX® PARALOBE™ GEOMETRY AND DESIGN

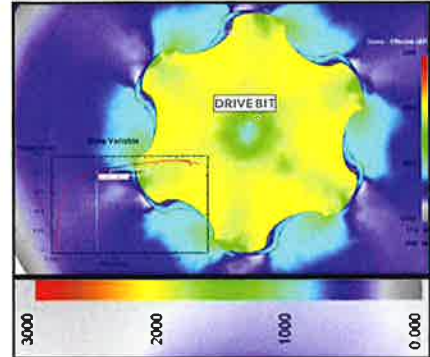
The TORX® PARALOBE™ Drive System features unique geometry resulting in 'full surface drive contact' to reduce drive bit/recess contact stresses



TORX® PARALOBE™ 30SI



TORX PLUS® 30IP



40 N-m Torque (Mid Penetration) Performance - FEA Effective Stress

TORX® PARALOBE™ BIT ULTIMATE TORQUE SPECIFICATION COMPARISONS

TORX PLUS®		TORX® PARALOBE™		
DRIVE SIZE	ULTIMATE TORQUE (N-m)	DRIVE SIZE	ULTIMATE TORQUE (N-m)	% INCREASE
15IP	9.62	15SI	11.6	20.6%
30IP	47.18	30SI	57.6	22.1%
50IP	194.54	50SI	237	21.8%

TORX®		TORX® PARALOBE™		
DRIVE SIZE	ULTIMATE TORQUE (N-m)	DRIVE SIZE	ULTIMATE TORQUE (N-m)	% INCREASE
T15	7.69	15SI	11.6	50.8%
T30	37.4	30SI	57.6	54.0%
T50	158.75	50SI	237	49.3%

TORX PARALOBE
~20% greater drive bit torsional strength vs. TORX PLUS®

TORX PARALOBE
~40% greater drive bit torsional strength vs. TORX®

STANDARD DESIGN GUIDELINES:

- Drive sizes: 1SI to 110SI
- Fastener sizes: M2 thru M25
- Head design: Can be used with all head designs