

For applications requiring fasteners with both **high torque transfer capabilities** and **low head height**, external TORX PLUS® low-profile head fasteners are the ideal choice. They are engineered to provide **improved performance** over hex drive fasteners without added head



STANDARD DESIGN GUIDELINES

Fastener Sizes: M0.6 to M24
(#0000 to 1")

Head Styles: Dome or indented head with hex flange or pan head bearing surface

Thread Styles: Can be used with any thread style

NOTE: Special sockets are required.

For more information on how external TORX PLUS low-profile head fasteners can benefit your assembly, please contact:

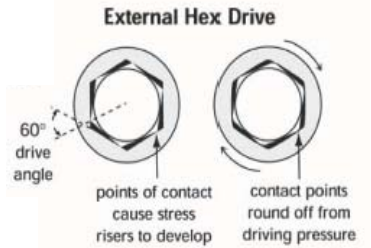


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SUPERIOR PERFORMANCE AND STRENGTH

The external hex drive allows high torque transmission, but can fall quickly due to weaknesses inherent in its design.

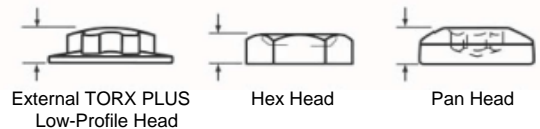


External TORX PLUS low-profile head fasteners are engineered to provide optimal torque transfer and extended tool life, with a head height similar to hex or pan head fasteners.



FEATURES

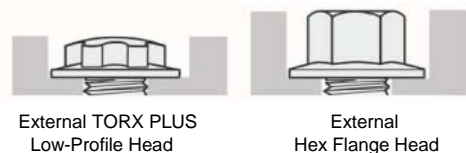
- ◆ Hex flange head or pan head bearing surface
- ◆ 0° drive angle
- ◆ Lobe engagement spreads forces over large area to prevent stress risers that cause tool and fastener damage
- ◆ Higher torque transfer capability than corresponding internal recesses
- ◆ Drive system strength 5 to 6 times greater than normal seating torque
- ◆ Head height is similar to hex or pan head fasteners



- ◆ Lower Head volume (weight) than hex and pan head fasteners (18% and 41% respectively)

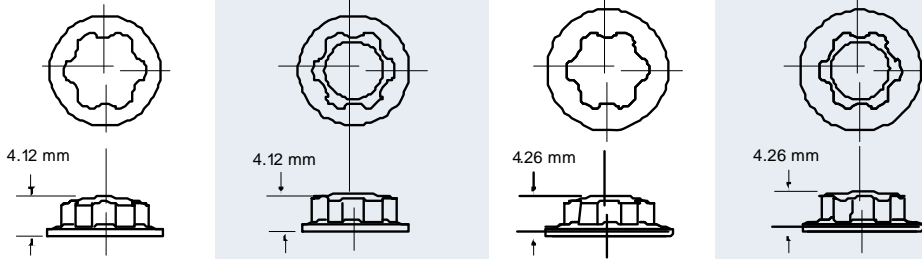
BENEFITS

- ◆ Provides high strength and torque capability in a low-profile head
- ◆ Ensures optimal torque transmission and clamp load
- ◆ Allows high torque transfer without damage to fastener
- ◆ Minimizes space required to accommodate head height

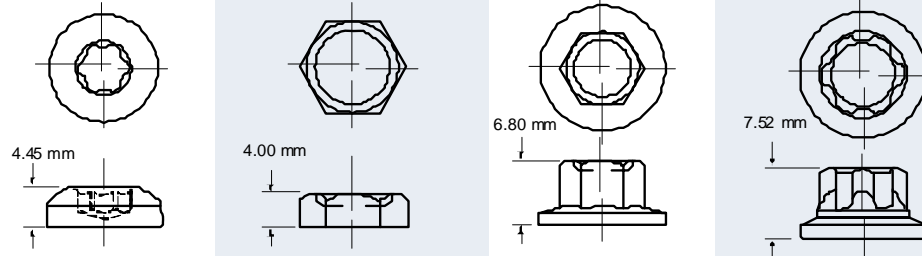


- ◆ Excellent high-torque drive system for miniature fasteners
- ◆ Reduces wear on drive tools for extended tool life

HEAD HEIGHT AND VOLUME COMPARISON



DRIVE SYSTEM	External TORX PLUS Drive	External TORX PLUS Drive	External TORX PLUS Drive	External TORX PLUS Drive
HEAD STYLE	Dome Low-Profile Head	Indented Low-Profile Head	Dome Low-Profile Flange Head	Indented Low-Profile Flange Head
HEAD HEIGHT RATIO	1.00	1.00	1.03	1.03
HEAD VOLUME RATIO	1.00	0.97	1.15	1.11



DRIVE SYSTEM	Internal TORX PLUS Drive	External Hex Drive	External Hex Drive	External TORX PLUS Drive
HEAD STYLE	Pan Head	Indented Hex Head	Indented Hex Flange Head	Flange Head
HEAD HEIGHT RATIO	1.08	0.97	1.65	1.83
HEAD VOLUME RATIO	1.41	1.18	1.88	1.64

EXTERNAL TORX PLUS LOW-PROFILE HEAD FASTENERS

STANDARD DRIVE SIZE SELECTION TABLE

DRIVE SIZE	SCREW SIZE	
	INCH	METRIC
H7EP	#0000	M0.6
H4EP	#000	M0.8
H3EP	---	M1.0
H2EP	#00	M1.2
1EP	#0	M1.6
2EP	#1	M2.0
4EP	#2 & #3	M2.5
5EP	#4 & #5	M3.0
6EP	#6	M3.5
7EP	#8	M4.0
8EP	#10	M4.5 & M5.0
10EP	#12 & 1/4	M6.0
12EP	---	M7.0

DRIVE SIZE	SCREW SIZE	
	INCH	METRIC
14EP	5/16	M8.0
16EP	3/8	M10.0
18EP	7/16	---
20EP	---	M12.0
22EP	1/2	---
24EP	9/16	M14.0
26EP	5/8	M16.0
30EP	---	M18.0
32EP	3/4	M20.0
36EP	7/8	M22.0
40EP	---	M24.0
42EP	1	---