



Tamper-Resistant  
Tri-Groove Fasteners

Tri-Groove fasteners are unique because of their sloped shape and slot arrangement. They are ***installed or removed*** with a socket that conforms to the sloped shape. Once installed they are almost impossible to remove without the socket driver bit.

Application possibilities are numerous wherever you need to prevent tampering, such as protecting electrical controls, vending machines, solar panels, traffic signs, locking doors and securing office equipment.

Tri-Groove nuts should be used with carriage bolts, round headed bolts, or with regular bolts installed so their heads can't be accessed.

The Tri-Groove head and nut is conically shaped with three equally spaced driving slots formed into the outer periphery. With this slot location, driving forces are applied to the outside edge of the head with full mechanical advantage.

There is no possibility of distortion such as that caused by worn driver bits in center slotted screws. A greater driver contact area holds driver slippage to a minimum, assuring uniform tension during assembly. The fastener head funnels easily into a rotating driver bit.

For mass production requirements, power driven equipment may be used.

Full Driving Torque  
Uniform Wrench Tension  
Faster Installation



Socket Driver Bits

**Tri-Groove nuts can be fastened and removed using a socket, which means they can be used in recessed grooves where side access is limited.**

Driver bits are available for Tri-Groove nuts and screws in sizes listed in our specifications and price lists. Bits may be obtained with or without driver handles that include a ball detent in the square drive end.

All Tri-Groove Nuts and Screws from 6-32 thru 1/4-20 sizes use the same bit handle with a 1/4 inch square drive. The 5/16 and 3/8 inch nut and screw sizes use a larger handle with a 3/8 inch square drive.

Tri Groove Part #	Nut sizes	Socket #
TG1024	10-24	TGSS
TG1032	10-32	TGSS
TG25	1/4-20	TGSS
TG31	5/16-18	TGSM
TG38	3/8-16	TGSM

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