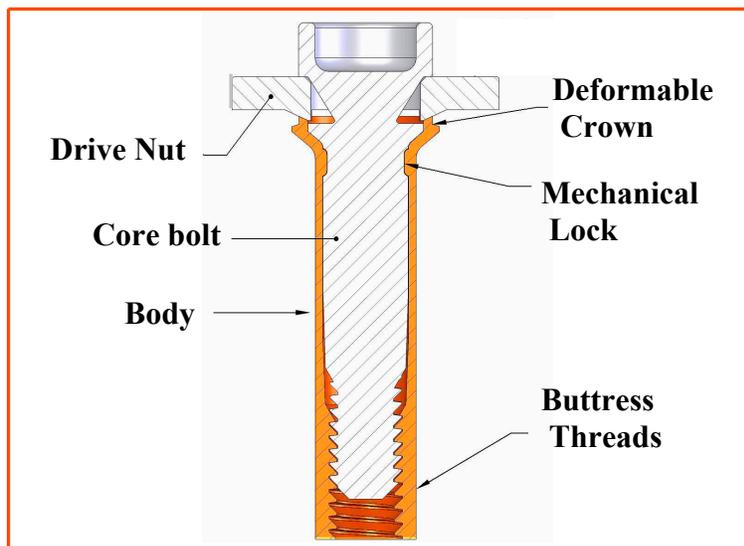


**Mechani-Lok™**
**95 KSI BLIND BOLT for
PRIMARY STRUCTURE**

Los Angeles, CA - June 2007: The Mechani-Lok (MLA-Series) blind bolt is a new addition to Monogram's growing suite of high strength fasteners for primary structure. The MLA is a two-piece, 95 ksi shear strength bolt designed for installation in both laminated composites and high-strength metal alloys. The A-286 CRES body and Ti-6-6-2 titanium alloy core bolt are mechanically locked together during assembly at the factory and cannot separate in service. Upon installation, the tail of the body forms a large blind side upset against the tail side panel surface to mechanically lock the assembly to the structure. Preload is retained because the core bolt is set by torsion, avoiding the recoil of pull-type blind bolts. The installed flushness of $+0.000''/-0.010''$ eliminates the need for post-installation shaving and filling. Installation is assisted by means of a disposable drive nut, eliminating the operator or worn tooling as a source of installation errors.

The Mechani-Lok was initially designed to incorporate the advantage of a mechanical lock with the advantages of high preload retention, large blind upset and ease of installation already present in Monogram's blind fastening line. These characteristics, in addition to MLA's light weight and shallow blind side protrusion in comparison to other structural fasteners, make the MLA ideally suited to the new A350, A380 and B787 platforms as well as potential military applications. The suitability for composites, aerodynamic flushness, and easy adaptation to robotic installation make this fastener an ideal replacement for current pull-type blind bolts and pin & collar fasteners such as lock bolts, Hi-Lites® and Eddie Bolts®.



FEATURES

- Mechanically Locked → Acceptable for installation forward of engine air inlets
- 95 KSI Shear Strength
- High Preload Retention (>50% of Tensile Strength)
- Absolutely flush break-off → no shaving or filling
- Disposable drive nut facilitates installation & eliminates “cam-outs”
- Compatible with Robotic Installation
- Can replace pin & collar systems in many applications



Mechani-Lok™

95 KSI BLIND BOLT for PRIMARY STRUCTURE

US Patents Applied For and Pending

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(Hi-Lite is a registered trademark of Hi-Shear Corporation. Eddie-Bolt is a registered trademark of Alcoa Fastening Systems.)