

# EFC Engineering Solutions

## PACNUT™

INTERNATIONAL *Perfect for Eliminating “Wheel-Offs”!*



**Market Uses:** Material Handling Equipment (Fork Lifts), Utility Vehicles, Heavy Truck, High Vibration/High Temperature Applications.

Each year, wheels that separate from commercial trucks and trailers cause a small number of very serious accidents. This “wheel-off” problem can be complex and unpredictable. Despite preventative maintenance practices and mechanical solutions, many fleets still experience loose wheel nuts and wheel separations. The **PACNUT**,™ a laminated lock nut designed to internally deflect as torque is applied, helps eliminate the problem.

### Features and Benefits:

**Increased Joint Preload:** A PACNUT™ bolted joint remains tight by creating joint “preload” that remains greater than the external application load of the joint.

**Increased Compression:** PACNUT™ creates additional preload by allowing compression of the laminated washers. This additional preload reduces loss of tension that occurs within the joint due to settling, excess paint, dirt, corrosion, surface imperfections, heat expansion/contraction and vibration.

**Resists Loosening:** Deflection of PACNUT’s™ laminated washers results in a reduction of hole size or pitch diameter, which also controls the clearance between the nut and bolt. This feature also produces mechanical pressure to the flanks of the threads on both the nut and bolt. The end result - a locking mechanism that resists loosening.



### Technical Specifications:

Sizes: M20-M24, ¾” – 1”  
Style: Multi-Thread  
Finish: 72-1008 hours

### Applications:

- Wheel attachment
- Hub spindles
- Transmissions
- Exhaust manifolds
- EGR Valves
- Engine accessory attachment
- Suspension Attachment

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