



# J. LANFRANCO

LOCKNUTS FOR CRITICAL BOLTED JOINTS

## Eliminating the Bottleneck of Shaker Table Failures

Locknuts to maximize plant throughput and minimize shutdowns



### CHALLENGE

Equipment Failures Kill Operations

Shaker tables are subjected to some of the most demanding operating conditions in the mining industry: intense shock, impact, and vibration. As such, loosened screens are a real threat that will cause operations to come to a grinding halt.

These unplanned shutdowns and changeouts result in:

- Reduced plant throughput
- Loss of profit
- High labor costs
- Increased warranty costs for screen OEMs if minimum run cycles are not met



Locknuts installed on shaker table

### THU and ERM LOCKNUT CHARACTERISTICS

#### Prevailing torque

ASME B18.16.6

(IFI 100/107)

ISO 2320

#### Mechanical

SAE J995- Gr.5 & Gr.8

ASTM A563, A194

ASME B18.16.6

ISO 898-2, cl.8-10-12

A2070 / A4-80

304L / 316L

#### Features

Installs with standard tools

Suitable for hand tools

Locks in any position

Highly reusable



## WHY USE THE THU AND ERM?

Benefits of THU and ERM Locknuts

- 1 Improve operational efficiency**  
by eliminating the need to send maintenance crews to repair, re-tighten, or replace loosened/damaged screens.
- 2 Efficient and simple installation/removal**  
allows for quick changeouts (loosen and re-tighten without full removal) using standard bolts and tools.
- 3 Reliable and predictable performance**  
with no galling and no damage to bolt threads.
- 4 Significantly lower maintenance costs**  
caused by fastener failures.

## SOLUTION

THU and ERM Locknuts Keep Plants Running

Many of our mining industry clients faced various time- and money-killing problems before switching to J.Lanfranco THU and ERM locknuts. Chosen for their reliable performance and quick changeouts, these innovative locknuts eliminated fastener-related bottlenecks that caused unnecessary interruptions.

One customer in particular had a demanding set of requirements. **J.Lanfranco's Gr.8 ERM nut 3/4 UNC** provided the customer with 10 installation on/off, a high degree of locking, and an integrated washer capable of withstanding 10,000lbs of force.



Shaker table in operation

### What are THU and ERM locknuts?

With an all-metal design made of a single unique material, the J.Lanfranco THU and ERM locknuts require no insert. They derive their prevailing torque from two radially de-pitched locking slots positioned parallel to the thread pitch in the turret portion of the nut.

The locking slots are opened by the bolt threads and apply precise and controlled locking torque directly on the thread flank. As a result, this non-galling fastener technology resists all forms of dynamic and cyclical vibration without damaging the bolt threads.

**Achieve 10 installation on/off while maintaining quality and reliability.**

