

**LOCTITE***Adhesives for more  
reliable assemblies***APPLICATION CASE HISTORY****No. 258**

# Loctite Manufacturing Reliability Training Saves Lumber Manufacturer Over \$101,000

## *Reduces Unscheduled Downtime, Labor and Parts Costs*

**Situation:**

Fastener loosening is one of the major causes of unscheduled downtime related to mechanical failures. A major lumber manufacturer was experiencing monthly failures in their press roll air cylinder. The cylinder rod packing nut was vibrating loose causing loss of air, which resulted in inaccurate roll timing. This in turn caused damage to the gang saw. Two maintenance crews had to be called in each month to replace the saw blades and rebuild the cylinder. The annual accumulation of the costs incurred for labor, material, and downtime was building rapidly.

**Solution:**

The Loctite Manufacturing Reliability Training teaches and demonstrates a series of practices that provide maintenance personnel with ways to increase the reliability of mechanical equipment. This process begins with a series of modular, hands-on training exercises which cover the basics of threaded fasteners, threaded fittings, flanges, and cylindrical fits. Hands-on examples, exercises, and team testing reinforces these concepts. Once they transfer these skills and knowledge from the classroom to the field, the reduction of failures begins immediately. The training objective is to promote a shift from reactive to proactive methods. This new approach then becomes integrated into the daily work routine.

Maintenance personnel at this lumber manufacturer learned how Loctite® 262 Permanent Threadlocker could help solve the problem with the cylinder rod packing nut. Loctite 262 is a medium to high strength, permanent locking threadlocker for fasteners up to 1" diameter. It provides a high lubrication for easy assembly and excellent rust and corrosion prevention.

**Results:**

The use of just two drops of Loctite 262 applied to the cylinder rod threads prior to assembly has prevented the packing nut from loosening. Based on the how frequently the problem had been occurring, the manufacturer estimated an annual savings of over \$101,000 in parts, labor and downtime.

*Just two drops of Loctite 262 Permanent Grade Threadlocker was enough to save this Lumber Manufacturer \$101,000 annually. Loctite Manufacturing Reliability Training gave maintenance personnel the know-how.*

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