# CLIMAX
## METAL PRODUCTS COMPANY

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# Keyless Locking Device Provides Solution to Expensive Machining Costs in Lumber Handling Systems

*Climax Keyless Locking Devices provide timing solutions for lumber handling systems providing a cost-effective maintenance-friendly alternative to traditional keyed connections.*

Lumber handling systems have gears in the transfer station used for lifting raw material. In order for these transfer stations to run smoothly they demand strict sync tolerances. Traditional keyed connections used in lumber handling systems can become compromised causing a loss of synchronization resulting in stopped production. This need to periodically realign the gears and/or replace expensive keyed shafting is often expensive, difficult, and time consuming.

Climax C133 series locking assemblies negate the need for keyways in drive sprocket applications often allowing for the use of A-Plates. When used with kicker arms our keyless locking devices do not require gang broaching or the need to locate keyways on shafting, resulting in reduced machining costs. Under the extreme operating environments of lumber handling systems, KLDs eliminate the need for keyed connections and the associated problems with backlash and fretting corrosion which over time can cause weakened shafts and/or shaft failures. Easy to install with simple hand tools, Climax keyless locking devices provide a simplified disassembly and repair when the need arises and can be retrofitted over existing keyed shafting.

Climax carries an extensive inventory of KLDs with the capability to engineer custom designs to fit any application challenge.

## For Rotating Applications:

- Keys, keyways, and set screws cause shaft damage and fretting corrosion

- Splines, prone to fretting and require expensive machining

- Shrink or press fits are difficult to install and remove

- QD/Taperlock bushings do not transmit reversing and bending moments and use keyways where wallowing occurs causing fretting and backlash

- Hex nut keyless bushings are not self-locking and dynamic loading can loosen the connection

*Engineered Shaft Locking Solutions™*