CLIMAX
METAL PRODUCTS COMPANY

1-800-542-6552
orders@climaxmetal.com
www.climaxmetal.com

Hydraulic Motor and Conveyor Systems Benefit With the Use of Keyless Rigid Couplings

Climax Keyless Rigid Couplings provide a superior solution for shaft mounted hydraulic motors and gearboxes over traditional approaches in timber conveying applications.

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

Traditional methods used to shaft mount hydraulic motors and/or gearboxes in conveyor application such as wood chippers; include the need for brackets and expensive structures to support the motor. Failure to properly align shafts in these applications can lead to premature coupling failure. Additionally, misalignment can lead to hydraulic motor leaks and total bearing failures due to inordinate facial loads on the motor bearings, resulting in maintenance issues and downtime consequently affecting production and profitability. Even when these components are properly aligned these connections are subjected to outside elements that can affect alignment.

Climax C600 Series keyless rigid couplings provide the desired high torque and bending capacity required for conveyor applications thus eliminating bearing and motor failure. Shaft mounting the drive ensures that shafts are in perfect alignment, removing the chance of hydraulic motor leaks and total bearing failures. By eliminating the need for brackets and expensive structuring, KLDs provide for easy installation and removal when maintenance is required. Containing no flexible elements, keyless rigid couplings save maintenance costs and eliminate excessive downtime.

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