

Link-Belt® Bearings Eliminate Resaw Retightening

Link-Belt® spherical roller bearings with split tapered adapters have eliminated the need to retighten arbor bearing set screws on resaw equipment used at a pallet mill in Pennsylvania.

The mill specializes in building custom pallets of all configurations and works from a variety of available cant sizes to optimize both productivity and material usage. The purchased cants are sized and cut to appropriate lumber dimensions by the company's resaw lines.

The firm's plant includes a line of resaws that are equipped with Link-Belt® Max Mount™ spherical roller bearings that provide positive locking to the shaft. The 125 Series Resaws are used to make multiple cuts and produce the finished pallet lumber sizes. **A constant problem with any production equipment of this type is the need to retighten bearing mounting set screws.** With the heavy demands of day-long production and



Industry: Forest Products
Application: Paper Mills
Product: Link-Belt Bearings

shutdowns occurring only when a blade needs to be changed, set screws can loosen and cause misadjustment or bearing damage if left unchecked. Normally, a consistent preventive maintenance program can keep this problem under control, but it requires constant vigilance.

The 125 Series bandsaws incorporate a bearing design that eliminates the need to tighten bearing mountings after installation. The Link-Belt Max-Mount B22600 spherical roller bearings mount with a split tapered adapter instead of set screws or an eccentric cam locking device. In addition to providing more positive locking to the shaft, the bearings make mounting and dismounting much easier. They also help prevent premature bearing failures that could be caused by bearing/shaft fretting. The B22600 design combines the popular Link-Belt B22400 Series roller bearing with a split tapered adapter that is tightened with a locknut to clamp the bearing securely to the shaft. Discussing the need to check bearing set

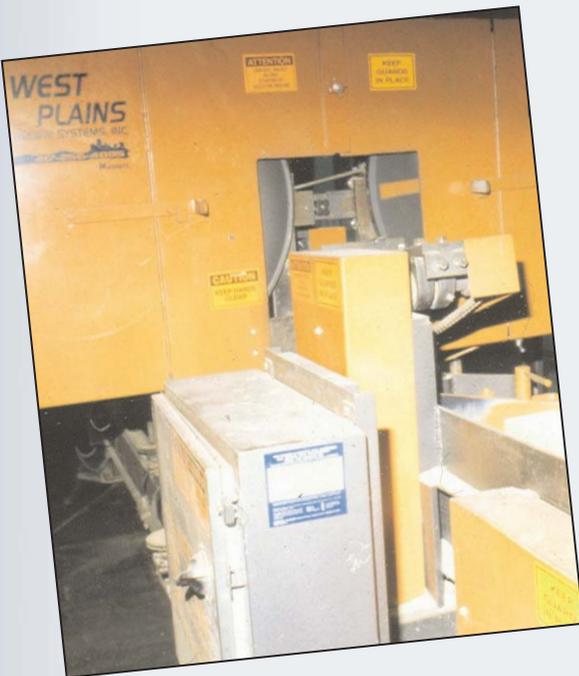


PHOTO: Resaws at the mill process cants into pallet lumber of various sizes. A new bearing design on the latest units eliminates the need to constantly recheck mounting setscrews.

CASE STUDY

screws in the mill the resaw manufacturer, explains "You can never tell how long a set screw-type bearing might last. It all depends on how good the people at the mill are about checking the set screws. With the new design, once you wrench the positive-locking bearing down with a spanner and bend the lock nut tabs over, it can't come loose."

Maintenance Manager at the mill, says "The only thing we have to do is grease them now and then. Once they're on, we don't have to adjust them."

If it does become necessary to change a bearing, the Max Mount design is easier to remove than a standard set screw design, which can fret and bond to the shaft over time. Also, there is less chance of damage to related components during replacement, because the bearing is easy to remove.

PHOTO:

Typical Link-Belt Max-Mount B22600 spherical roller bearing on arbor shaft of bandsaw uses split tapered adapter instead of setscrews to lock bearing to the shaft.

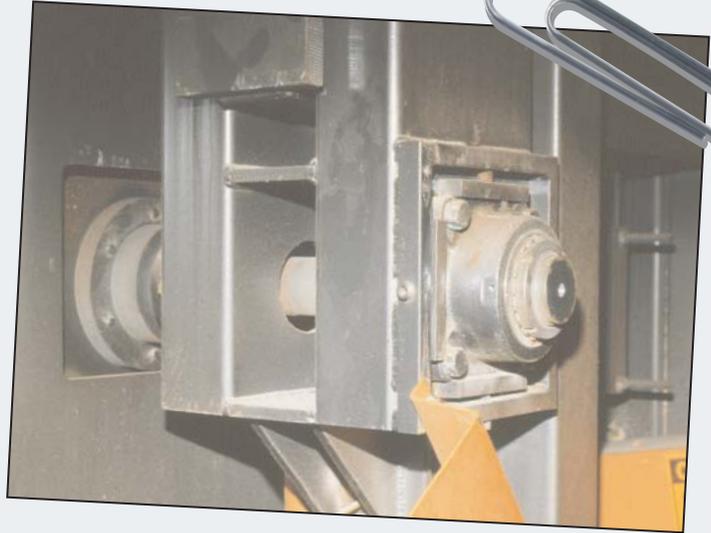


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Locknut can be seen in this closeup. After a spanner wrench is used to tighten the bearing, the locknut holds it in place. Eliminating setscrews ends the need to constantly recheck tightness during operation and makes removal easier when necessary.

CASE STUDY

FOOTNOTE :

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