Enhance Paper Machine Performance with Spherical Roller Bearings Featuring Engineered Surfaces

Timken spherical roller bearings have long delivered reliable and dependable performance for paper mill equipment. Now an enhanced bearing is available for the harshest paper machine environments like suction rolls, large press rolls, dryer cans and calendar stacks.

By applying a specially engineered surface finish to the rollers of an enhanced spherical bearing, the life can be extended in low-speed conditions and bearing failure can be deterred in low-lubrication environments.

The result – the enhanced bearing can withstand skidding, sliding and wear damage commonly found in paper machine applications. This also extends fatigue life up to two times that of a standard bearing.

Designed for complicated environments
The enhanced spherical bearing is specifically engineered for the unique challenges common to paper machines. Large bearings often operate below its critical speed, either in standard operation, boil-out or during crawl.

At slow speeds, the roller rotation in the bearing can cease causing the cage to push non-rotating rollers across the raceways. Without roller rotation, the lubrication film breaks down, allowing metal-on-metal contact, skidding and smearing damage in the bearing.

Available in the sizes you need
The specially engineered surface finish can be applied to the rollers of any of our spherical roller bearings. To order, contact your Timken sales engineer. Adding W6R to the standard spherical roller bearing part number will designate the new bearing. For example, 23056YMBW33W6RC3.

Adding value to your operation
Through sophisticated computer modeling and system analysis, Timken application engineers help identify the most appropriate bearings and settings for your equipment. Timken service engineers are available to assist in bearing installation, on-site application design and routine maintenance.

Our sales and service engineers routinely teach training classes on bearing design, metallurgy and effective maintenance procedures. Engineers will then test and certify your team members through the Timken Bearing Certified Program. Training can completed either at your facility or at a Timken location.

About our engineered surface technologies
Timken’s surface enhancement technology features a surface hardness two times greater than steel, yet performs with the elasticity of bearing steel. Bearing components are protected from skidding and sliding damage when the finish is applied to the rollers of a bearing.

An added benefit of this custom-engineered surface is bearings can withstand small particle contamination. This surface can extend the life up to three times that of standard designs in a debris-filled environment.

For more information on enhanced spherical roller bearings, engineered surfaces or training, please contact your local Timken sales engineer, an authorized distributor or visit Timken online at www.timken.com.