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TECHNOS HOT TIP #13

Bearing Maintenance

Regularly scheduled bearing maintenance is absolutely essential to long uninterrupted bearing life. The biggest failure on any rotating machinery is an unattended bearing. The bearing manufacturer can recommend lubrication type, quantity, and maintenance intervals to help keep your equipment running smoothly.



Large Separator Rejuvenated in Record Time

The Challenge: replace the severely worn rotating element and static blades in a separator without removing the housing or disturbing the surrounding structure.

The Solution: **Call Technos!**

The project began with a thorough evaluation of the scope of work and the physical constraints of the separator housing and supporting structure. Technos engineering and field service surveyed the situation and developed a plan to successfully complete the entire project within the 21 day shutdown. The separator rotor is 17 feet in diameter and almost eleven feet high and required special equipment to remove from an access opening prepared in advance. The new rotor was built at the Technos' Texas facility using AR500 material and installed on site in eight equal sections. The lower cone, support gussets, and static blades were also replaced with new parts. After the Technos crew installed and aligned a new gearbox, the separator was started. "Better than we've ever seen it run", was the comment made by plant personnel.



ENGINEERING SUPPORT

Our Engineering Department has the expertise to perform the most thorough analysis using cutting-edge computer technology.

- Natural Frequency Testing
- Finite Element Analysis (FEA)
- Shaft Critical Prediction
- Wear Control Improvements
- Metallurgical Analysis

FIELD SERVICE DEPARTMENT

- Emergency Repairs
- Laser Alignment
- Field Balancing
- Wheel Replacement
- Bearing Repairs
- Epoxy Grouting
- Liner Installation

PRODUCTS AVAILABLE

- Complete Custom Fan Assemblies
- Chrome Carbide Liners
- Dampers
- Expansion Joints
- OEM Projects
- Fan Housings
- Spare Wheels
- Screw Conveyors
- Coal Hoppers
- Shaft Seals
- Separators
- Kiln Seals
- Classifiers
- Ducting



“Tiny” Cement Separator Gets New Life, Too!

Technos Corporation recently renovated another cement separator wheel for a large cement plant in Texas. The repairs included the installation of new blades, new reinforcement rings, and new support bars. The blades are made from A588 and have chrome carbide liners for added wear protection and extended production life.

Cement separators, or classifiers, separate fine particles from coarse particles. The fine particles are collected as product while the coarse particles are sent back for further grinding. An efficient separator prevents over-grinding and the waste of energy that accompanies it. It also keeps product within specifications by making sure that the correct particle size is achieved. Thanks to Technos, this separator is ready to get back to work!

Technos Capabilities

In Texas, Technos Corporation Fan Services is located on 10 acres five miles northeast of San Antonio with two large state-of-the-art facilities fully equipped with multiple welding machines, CNC cutting machine, positioners, lathes, press brake, mills, and precision balancing equipment. Our Technos facility in Alabama is located in Bessemer and is equipped to handle all of your fan manufacturing and repair needs as well.

Technos Corporation Fan Services has the expertise to design, fabricate, and install all types of industrial fans; including wheels, shafts, housings, dampers, expansion joints, and wear-resistant liners specifically designed for your requirements.

Technos Corporation Fan Services field crews are full-time employees certified and trained in all phases of fan repairs and safe installation. We respond to your emergencies and work safely to complete the job. Technos Corporation Fan Services never uses any temporary laborers.

Technos Corporation Fan Services offers the most competitive in-shop and field service rates in this business and we are ready to fulfill all of your industrial fan needs, 24 hours a day, 7 days a week.