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TECHNOS
HOT TIP #23

Main Causes of Fan Vibration

Vibration in fans is primarily due to unbalance and can be corrected by adding or removing weight. Vibration can also be caused by bent shafts, coupling misalignment, worn belt sheaves, rubbing components, bearing damage, and mechanical looseness. Other possible causes include worn drive belts, eccentric airflow, and bearing lubrication contamination.

Contact Technos for a thorough evaluation of your fan vibration.



Technos Responds Immediately to your Emergency

These are but a few of the photos of catastrophic failures that needed immediate response from Technos. Damaged rotating equipment can be repaired or manufactured quickly and professionally by our experienced personnel to get your fan running again. Emergency repairs or fabrication can be scheduled “around the clock” as required to keep your downtime to a minimum and our field crews can assist with reassembly as well to rapidly bring production back on line.



Technos Provides '100 Point' Fan Inspection Report

Technos field technicians follow a 4-page guide for all fan inspections and this 100 point inspection procedure is completed and given to the customer for record or to schedule future actions as required. This report covers all aspects of the fan assembly; from specific component information and present conditions and clearances, to future maintenance or repair as necessary. This report is a valuable tool to view trending, or for keeping records of maintenance performed on equipment.



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
- Shafts
- Classifiers
- Ducting

Technos Corporation 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 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 at a moment's notice.



From the **TECHNOS** tailgate: Texas Slow Cook Fajitas

Ingredients: 2-3 lbs. USDA choice skirt steak, 2 cloves garlic (crushed), one 14 oz. can Rotel diced tomatoes, 1 fresh jalapeño (halved & deseeded), 1 medium onion (sliced) and 1-1/2 cup beef broth (or water).

Season meat to taste with salt & pepper and then sear on a hot grill, about two minutes per side. Cut meat if needed to fit crock pot and place seared meat in crock pot with above ingredients. Grill onion slices until medium brown and add to crock pot.

Cook on HIGH until liquid boils and then set to low heat and simmer for 3 hours until tender.

Your choice of flour or corn tortillas and a side dish complete this tasty meal!