

# TECHNOS Monthly

Fan Engineering, Manufacturing, Repair, and Installation.

**TECHNOS: Your Single Source Supplier!**

**October 2009**

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**TECHNOS**  
**HOT TIP #14**

**Laser Alignment**

When two machines are connected together through a shaft coupling, every effort must be made to eliminate misalignment. Lasers are highly accurate and easy to use in aligning equipment to reduce bearing and seal damage, minimize energy loss, and reduce production downtime. Performing laser coupling alignment on a scheduled basis will make machinery last longer and perform more efficiently.



*"The Beast" Comes Alive!*

After performing dutifully to help fight fires for the Krum Fire Department, this military deuce-and-a-half was transported to our Texas facility to be transformed into a unique ranch utility truck. First the old water tank was removed, and after going through it mechanically and electrically, fresh tan paint was applied and exterior wildlife motifs were added in a 3-dimensional display. A 110VAC gas generator, a new marine charging system, and 110VAC & 12VDC outlets were also added. Then the seats, sofas, and radio console were installed on top of marine wood flooring and exterior carpeting. We also used matching vinyl to upholster cup holder shelves and backing walls, and installed lights, cup holders, a CD/weather/AM-FM stereo, and Bose speakers. The front is adorned with various bird designs and a caricature of Willie, our deceased bird dog. The rear stairs are raised and lowered by a "winch fishing pole" which is tethered to a stainless steel redfish at the base. A BBQ pit and a deer corn feeder are attached at the rear of the truck and a Texas flag canopy protects the occupants from the sun. Many Technos full-time employees worked on the restoration and decoration of "The Beast" during slow production days and are excited with the results.



## 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

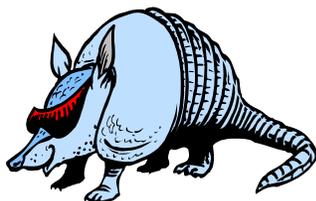
## PRODUCTS AVAILABLE

- 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



## *Expansion Joints: Another Technos Specialty*

Fabric expansion joints are used to handle axial, lateral, torsional and angular movements between duct sections and also offer superior corrosion resistance. Fabric expansion joints are used on a variety of ducts at power plants, paper and pulp mills, steel mills, refineries, and cement plants. An elastomeric type expansion joint is a rubber type joint consisting of one or more plies of reinforcement laminated with the elastomer and vulcanized into a solid product. This type of joint is designed for operating temperatures of 400° or below. The thickness of the joint and the number of reinforcing plies can vary depending on requirements, although most joints are ¼" thick with two ply fiberglass reinforcement. The composite type expansion joint is a layered joint consisting of various plies of materials which are overlaid, bonded, and fastened together. This type of joint operates in continuous temperature ranges over 400°F. **Technos Corporation** can design, build, and install expansion joints to meet your specific requirements.



## From the **TECHNOS** tailgate: *Armadillo Sausage Balls*

Mix together 1 lb. grated sharp cheddar cheese with 1 lb. breakfast sausage (Owens is good) and 2 cups Bisquick. Knead together and roll into walnut size balls. Cool in refrigerator. When ready to cook, place in oven at 350 degrees for 15-20 minutes.

***Great for breakfast while camping or out at the hunting lease!***