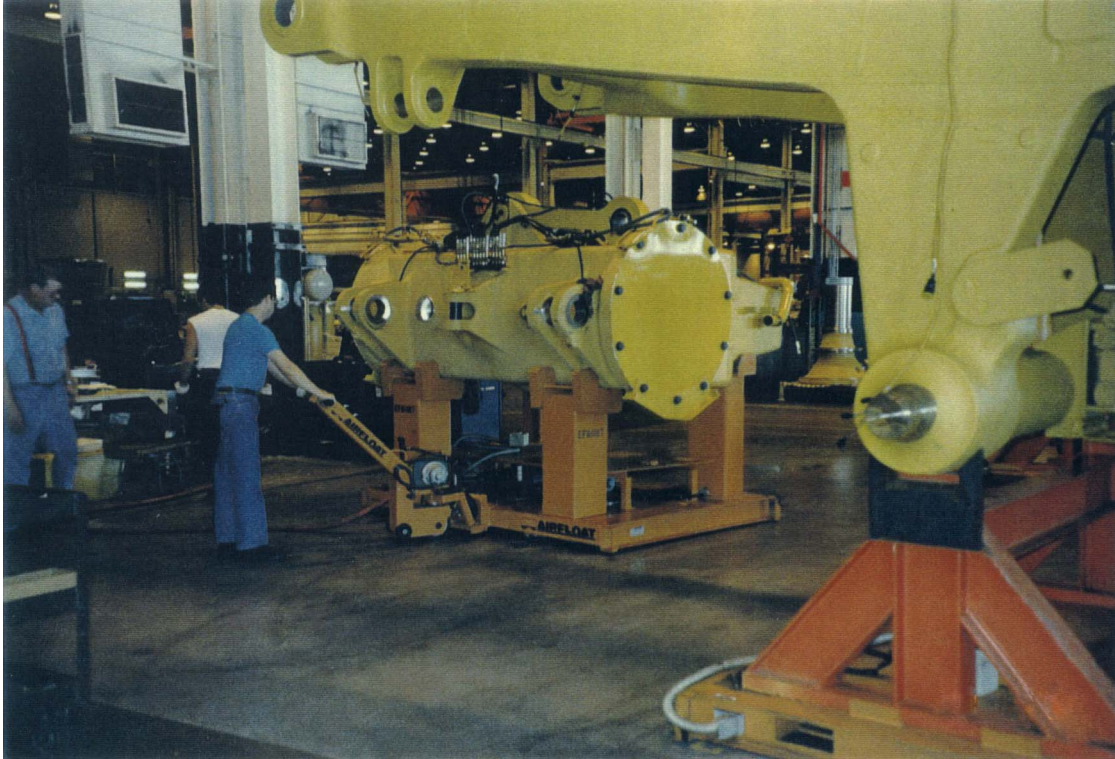


Transmission Drive Axle Transporter



APPLICATION:

A producer of mining equipment needed a safe and effective solution to the difficult task of inserting a transmission drive axle into a mining truck frame. The previous procedure was too time consuming and dangerous for the operators.

SOLUTION:

Airfloat designed and manufactured a totally self-contained 30,000 lbs. capacity axle transporter that uses a drive tractor for positioning the drive axle under the truck frame. An operator uses the pendant control for directing the four air bearings. The two air bearings in front are simultaneously operated, while the two in back are independently operated to allow for the axles positioning into its place under the frame. Four hydraulic lift frames were designed to position the axle at its appropriate height of 36" tall in front and 33" tall in back. The overall dimensions of the platform were 96" wide by 66" long by 6 1/4" inches. The system air supply requirements are 60 PSI minimum; this includes 60-100 CFM for the platform, 45 CFM for the tractor, and 45 CFM for the hydraulic system.

BENEFITS:

- The operator can easily maneuver a loaded platform by using friction-free, omni-directional air bearings.
- The operation time for inserting axle into the truck was reduced from two hours to thirty minutes.
- The pendant controlled drive gives maximum control for accurate positioning.
- Total pneumatic power for low cost installation