



# dahl-beck electric

## Mining Truck Motor Services

**dahl-beck electric** is a third generation family owned and operated electric motor repair facility that prides itself on our business ethics, technical knowledge and customer satisfaction. We have been in continuous operation by the Beck family since 1933 and this experience is what separates us from other motor repair facilities. Our 70+ years of practicing this craft has undeniably qualified us as experts.

Your equipment never seems to break down during normal business hours but more likely in the middle of the night, weekends or holidays. We understand how vital this equipment is to your operation and have dedicated ourselves to getting your facility back online ASAP. The **dahl-beck electric** service staff is available 24 hours a day, 7 days a week, 365 days a year. Help is just a phone call away. **510-237-2325 day or night.**

Our fully-equipped, EASA (Electrical Apparatus Service Association) certified motor repair facility is housed in 54,000 square feet of building space on over 3 acres of land. This space enables us to take a systematic approach to shop set-up, equipment placement and job staging in an effort to more efficiently move jobs through the repair processes.

We are pleased to offer our customers the following service:

**Mining Truck Motor Service** — Within the last few years we have become involved with the repair and retrofitting of the Siemens 1,500 KW and 1,250 KW AC drive motors used in the colossal Liebherr and Euclid-Hitachi Mining Trucks. These are the largest dump trucks ever manufactured and are used around the world in a variety of mining operations. Each truck contains a diesel generator that supplies power to a pair of electric motors (one mounted on each rear wheel). These electric drive motors (not a diesel engine) propel these trucks up and down these mines in forward and reverse at varying speeds.

Because of the substantial capital investment it takes to purchase one of these trucks, they are expected to operate around-the-clock. It goes without saying that these mines are located in some of the world's harshest environments and therefore the motors must be designed and built to withstand these conditions. Even though the best materials and most innovative designs have been utilized in these motors, eventually the environment wins out.

These motors arrive at our facility from mines throughout the world and we meticulously repair them using coils, insulation and other parts supplied to us by Siemens AG. Our training has been alongside Siemens craftsmen in Germany who have taught us the proven methods they use when repairing these motors. Siemens AG (Automation & Drives Division) has chosen **dahl-beck electric** to be their official authorized partner in the United States for Large Drives & Traction Motors. We are truly honored to be partnered with such a fine organization.

*A few of the unbelievable statistics about these trucks:*

- ◆ Operating Weight (unloaded): 448,000 lbs.
- ◆ Maximum Gross Vehicle Weight (loaded): 1,248,000 lbs.
- ◆ Payload Capacity: 800,000 lbs.
- ◆ Engine Output: 3,500 HP
- ◆ Fuel Capacity: 1,250 Gallons
- ◆ Width: 28'7"
- ◆ Height (over canopy): 24'3"

