

Application Profile



HIGHLIGHTS

- 450 ft. lbs. static torque
- Economical, compact package
- Designed for easy install/replacement

Modified SF-825 Clutch Aircraft Deicing Truck

PROBLEM

Wright Bros. Aero provides aviation services including deicing, to general aviation aircraft and major carriers. Aero deicing trucks were originally equipped with a clutch-engaged pump that sprayed a mixture of water and Type 1 deicing glycol on airplanes prior to takeoff.

However, airports began changing their deicing procedures so aircraft are sprayed first with Type 1 glycol to remove ice, then sprayed with Type 4 to prevent re-icing.

Due to the new procedure, the trucks needed to be retrofitted with new piston pumps to handle the additional Type 4 anti-icing glycol application. The new, dual-function pumps required a new clutch with a higher torque capacity than the original clutches.

SOLUTION

To meet the challenge, Warner Electric modified its SF-825 clutch by improving the efficiency of the magnetic circuit to achieve a higher torque-to-diameter ratio and higher torque-to-axial length ratio in a small package. With the modifications, the new clutch provides 450 ft. lbs. of torque to meet the demands of the new pumps.

The modified SF-825 clutches were economical, drop-in replacements for the original clutches. The overall short clutch length allows for quick and easy retrofit installation.

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