



HIGHLIGHTS

- 200 ft. lbs. static torque
- Economical, compact package
- Designed for easy installation
- Single model fits several engine horsepower sizes
- Torque rating far exceeds normal operating requirements

Application Success Story



Modified SF-1000 Clutch

Diesel-Powered Concrete Saws

PROBLEM

A clutch solution was needed for diesel-powered road construction concrete flat saws. The clutch provides an important safety feature, allowing operators to disengage the saw's diamond blade drive while the engine remains running. This helps the operator safely free blades when they become pinched in the kerf (cut groove) due to thermal expansion and it also allows operators to move their machines using the power drive, with the engine running, but without rotating the blade during the move.

SOLUTION

Warner Electric SF-1000 clutches were selected to meet the challenging application requirements. Since the saws can weigh up to 1,500 pounds, with up to 60 in. dia. blades, having the ability to move the saw under power without blade rotation is a significant ergonomic and convenience benefit.

The operational benefits of the clutch gave the saw manufacturer a major advantage in the marketplace without significantly increasing the cost of the equipment. The SF-1000 clutch also allowed the saw manufacturer to sell the same model saws in both the European (where the clutch is a required safety feature) and North American marketplaces.

Depending on the model, the flat saws generate 50, 60 or 100 ft. lbs. of torque. The static torque rating of the SF-1000 clutch is 200 ft.lbs.

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