



Photos courtesy of themeparkarchive.com

Product

Model FSO-500 Overrunning Clutch

Application

Water Plume Ride

Highlights

- Nickel-plated for enhanced corrosion resistance
- Food-grade grease lubrication
- 1,175 lb.ft. (1,598 Nm) torque capacity
- Requires no adjustments or controls

A popular theme park located in Ohio needed a replacement overrunning clutch for use on one of its water plume rides. The attraction features a series of 16 ft. long boats carrying 20 passengers each up a 35 ft. lift before rapidly plunging into a splash pool below.

Positioned on the boat lift conveyor drive train at the base of the climb, the clutch prevents potentially dangerous reverse rotation of the conveyor in case of a power outage. The problem was that the existing clutch was failing due to seal problems within the water environment.

In response, Formsprag provided an upgraded replacement FSO-500 clutch. The new clutch featured nickel plating to fight corrosion due to chemicals in the water. Also, a food-grade grease was substituted to eliminate any oil lubrication from being introduced to the water that splashes onto the riders.

The 4.75" diameter grease-lubricated FSO-500 clutch has a 1,175 lb.ft. (1,598 Nm) torque capacity. All FSO automatic backstopping clutches feature a high torque density and require no adjustments or controls.

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