

**HIGHLIGHTS**

- Dual-purpose clutch function
- Bearing mounted with steel friction plates
- Designed for easy install/replacement
- Instant on/off
- Available with either 200 ft.lb. or 250 ft.lb. torque ratings

Application Success Story

Modified CMS Clutches

Oil Field Pump Jack

PROBLEM

An engine manufacturer needed a clutch for use on oil field pump jacks. The clutch serves two purposes. First, it allows the engine to restart without the load after maintenance is completed. Second, if the oil level of the well falls below the suction tube, the engine is clutched to allow the oil level to recover. Previously, before a clutch was used, the engine either kept running and had excessive wear, or the engine was shut off and then had to be restarted.

SOLUTION

Warner Electric engineers developed a modified CMS (Commercial Mag Stop) clutch to meet the OEMs function and performance requirements. The CMS clutch is bearing mounted with steel friction plates. The clutch assembly mounts directly to the engine shaft and features a double groove pulley to accommodate twin V-belts that drive the pump shaft.

The modified CMS clutch is a low cost solution when compared to competitive clutch models. Units are easy to install and feature a low power draw while using current from the engine's alternator circuit. The modified CMS also has instant on/off capability which allows for engine warm up in cold weather conditions.

CMS clutches are available with either 200 or 250 ft.lb. torque ratings. For higher torque pump jack applications, Warner Electric also supplies the GT300 clutch (300 ft.lb.) and SF-1000 clutch (700 ft.lb.).

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