



Product

Application

Highlights

- One-piece, all-steel drive coupling
- Elastomeric grommets provide vibration dampening
- Easy installation
- Fits standard and non-standard SAE flywheels
- Economical design
- Available in SAE sizes 6-1/2 thru 14 from stock
- SAE standard flat steel pump mounting plate included for improved alignment



FBA Series Flywheel Coupling Kits

Road Construction Brooms

A leading manufacturer of industrial sweepers and brooms required an economical coupling solution for a line of road construction sweepers. Dual hydraulic pumps, horizontally mounted to each other off the rear of the machine's 74 HP Tier 4 engine, drive the propulsion of the machine and control the operation and speed of the broom and various other components.

The coupling solution required continuous, reliable performance while accommodating small amounts of misalignment. Dampening characteristics were also required to avoid transmitting unwanted vibrations into either the drive or driven components. The OEM utilized a standard SAE #4 engine housing with a standard SAE 10 flywheel connection. An SAE standard offset of 53.8 mm (2.12") existed between the mounting face of the engine housing and the coupling mounting face.

Guardian engineers worked directly with the OEM's engine distributor to configure a combination coupling and mount kit that installed easily onto the distributor's engine package while accommodating the OEM's specific performance requirements.

The complete kit consisted of a one-piece, all-steel FBA flywheel coupling, with a 4,640 in.lb. torque rating, that attached to the engine flywheel and mated to the hydraulic pump's splined shaft. FBA couplings are torsionally soft and are designed for applications up to 450 HP. The kit also included an SAE standard flat steel pump mounting plate that attached to the engine housing and allowed the pump to be directly attached to it. The plate, featuring a special anti-corrosion coating, ensures that the pump is held in alignment with the engine housing and flywheel.

Both the engine distributor and the OEM were pleased with Guardian's ability to provide a very competitively priced standard product solution while meeting required lead times.

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