

APPLICATION STORY

Ogura Innovative Applications

Digging holes for fence posts can be back breaking work in good soil conditions. Now imagine having to dig over 100,000 postholes a year in all types of soil conditions including rocks and old concrete. That averages to just under 2,000 holes per week, for a full year. (Ouch, my aching back.)

The company that accomplished this didn't do it through pure

manpower, but brain-power.

They designed a machine, actually a piece of mobile boring equipment, which can navigate the most adverse terrain, is extremely

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maneuverable, and can operate in extreme weather conditions.

The company, Dandy Diggers, manufactures this unique piece of mobile equipment, which an operator can drive into position and using its variable speed auger drive, the operator can exert up to 4,000 pounds of force to bore through all types of soil conditions.

The "Dandy Digger" uses a 25HP Kubota engine to drive a hydraulic pump, which then powers a variety of hydraulic motors. Four of these motors are for the ground drive wheels and a fifth is used as a power take off. The PTO can be used to drive a collection of "Quick-Tach" accessories, including an End Loader, Concrete Mixer, Post Pounder, or Post Puller.



Ogura P/N 512347



Try digging in this!

The PTO power can also be used to assist the 20HP Kohler engine which normally drives the auger. This comes in handy when using the "Extenda-Dig" option that allows the machine to bore holes to 7 feet deep and up to 30 inches in diameter.

The hydraulic pump is driven by an Ogura model # 512347 clutch through two V-belts. This clutch is rated at 250 ft. lb. and although 25HP at 3600rpm including a 3.0 service factor, produces an output torque of around 113 ft. lb., the extra torque the clutch provides comes in handy when the hydraulic pump is used to assist the main auger drive.

The Ogura model #512347 clutch is used to help in two areas. One is cold weather starting. The hydraulic pump can be disconnected from the engine to reduce the starting effort in extreme cold weather. The second area is opera-

tor safety. There is a limit switch under the operator's seat, which turns off the clutch so the hydraulic pump is not driven, effectively locking out the ground drive wheels when the operator is out of the vehicle.

This heavy-duty Ogura clutch has tackled other difficult applications including stump grinders, concrete saws, grain augers, agricultural and turf care equipment.

There are many other engine driven applications where the addition of an Ogura clutch will add value and convenience to an OEM's products.



Post Pounder