

APPLICATION STORY

NOT THE SAME OLD DAILY GRIND

Consider the challenges facing the engineers and designers of various types of construction machinery. How to provide a machine that meets all the performance criteria for a given job and be simple to operate and easily transportable? Operator convenience and safety are of obvious importance, not to mention the myriad of other details: ease of

assembly, serviceability, reliability, and simplicity to name a few.

Ogura electromagnetic PTO clutch/brakes were chosen by Rayco . . . The assemblies are ready to install and require no adjustment . . . and service is simple and straightforward.

complicate the traditional design challenges, the user of Rayco machines might be a trained professional or a weekend warrior that picks up a stump cutter from the local rental outlet. The machine for



Rayco's stump grinder

Rayco Manufacturing Inc., in Wooster Ohio manufactures a broad range of stump removal machinery and material handling equipment for the tree care industry. To

this user has to be simple enough to operate that a few minutes of instruction is enough to get the job done. For either user an Ogura clutch helps make the job a lot more convenient to operate the stump grinder.

To operate the stump grinder, the operator starts the engine and then with the flip of a switch Ogura clutches transmits the power from a 25 horsepower gasoline engine to the machine cutter wheel. The 18" cutter wheel has 1" teeth, that spin at 1,000 rpm and can

reduce a 24-inch diameter tree stump to a pile of chips and saw dust in a matter of minutes. What once was a day of backbreaking work cutting out a stump is a quick and effortless grind. It's about as much effort as grinding beans for morning coffee.

Ogura electromagnetic PTO clutch/brakes were chosen by Rayco to meet their design objectives. Installation in production is simple and convenient. The assemblies are ready to install and require no adjustment.

Forged rotor construction means they'll handle the rigors of outdoor usage and service is simple and straightforward. A single mounting bolt is all that's needed to attach the clutch or clutch/brake to the engine crankshaft. Add a 12-volt connection and it's ready to smoothly transmit engine torque to the cutter wheel. The operator remains safely away from the cutting tool and controls engagement with a simple



Electric clutch

switch. Safety is enhanced when "operator presence" switches are incorporated. Releasing the controls disengages the clutch and power to the implement is interrupted.

Ogura clutch and clutch/brake combinations are available in torque capacities from 90 lb.ft. to 350 lb.ft. and can be easily adapted to any application. Output can be belt driven, chain and sprocket driven, or directly coupled to a drive shaft. In choosing Ogura Rayco considered the benefits of single bolt mounting, no adjustment required, easily controlled from remote locations, the right size for the right application and the engineering support and expertise of the world's largest producer of electromagnetic clutches and brakes to back it up.



Stump grinder in action