

Application- Slasher/Tree Grinding

Product Group- Mobile (Sai Motors)



Summary- A customer who makes slashers for the agricultural and commercial sector spoke about a problem and a wish list for improving his slasher's performance and versatility. Wish list- 900 Rpm 5ft Dia cutter to spin @ 4100 m/min or 162000 inches/min without losing torque

Previously they had used a right angle gear box mounted directly from a tractor then moved to use a bent axis piston motor, but with the known characteristic of a bent axis piston motor they were losing torque under 900 rpm causing the slasher to stall and lose its efficiency to cut grass, shrubs and small trees (up to 8" Dia).

We were able to identify and select an appropriate hydraulic motor the Sai SF0255 which would solve his problem and increase the customer's versatility.

Advantage- The Sai SF0255 is a high speed and high torque motor, (delivers the same torque at 15 rpm as it does 1500 rpm) it means when the rpm drops to below 900 rpm the motor will still deliver the speed and torque required under low rpm for continuous cutting.