

Spider Robot Controlled Mower



CSE Equipment's turf division, which currently supplies Club Car and Jacobsen equipment, has extended its range of mowing equipment to include new commercial radio controlled mowers. These machines with excellent climbing ability, offer improved productivity, low operational costs, enhanced operator safety and reduced maintenance requirements.

“The new range of versatile Spider radio controlled slope mowers, which has gained popularity – largely by municipalities throughout the world - is designed for the maintenance of flat, pristine grass, as well as inaccessible terrain and extreme slopes with thick brush, where conventional mowing machinery cannot travel”, says Alex Ackron, national manager, CSE Equipment. “Previously, specialised equipment for difficult turf maintenance applications was required, but this is no longer necessary. The Spider is particularly useful during the maintenance of ditches and slopes surrounding roads, for mowing agricultural areas, fruit orchards and forest nurseries, landfills, areas around power stations, airports, downhill runs and parks.”

A critical feature is this machine is gentle on turf and does not cause erosion. The cutting deck mulches the grass, which consequently falls back to the roots and fertilizes the lawn for further growth. Another benefit is enhanced comfort and safety for the operator, especially when working in heavy and sloping terrain.

These machines, which boast productivity up to 3 000 m² per hour, have a mowing width of 80 cm and a height of cut of 6 – cm and 3 – 8 cm. There is a 40° climbing ability which increases to 55° with a hydraulic, stabilising winch, while preserving the optimum position of the engine and its proper lubrication. Tractors have a climbing ability of only 12°.

The patented drive system, which is a combination of a full forward and reverse all-wheel drive, simplifies the maintenance of areas surrounding water reservoirs, rivers, waterworks and dams and also allows mowing in wetlands and natural protected areas.

This drive system, in combination with an unlimited continuous 360° all-wheel steering, enables the machine to change driving directions, while preserving the all-wheel drive. This makes these mowers stable, manoeuvrable and harmless to the terrain, as the machine does not have to skid steer like many other track driven machines.

The industrial remote control transmitter manages functions like engine start and shut off, speed range adjustment, cutting deck engagement and disengagement, engine speed regulation and the height of cut adjustment. Wheel and skid steering, frequency channel selection and emergency shut down are also easily controlled.

This micro-processor operated radio control system complies with all relevant quality and safety standards. If an operator fails to observe instructions, or if there is a loss of signal due to the excess of safe distances, the whole system will be shut down.

The mainframe has a light aluminium-alloy structure for a low total weight of the machine, resulting in efficient fuel consumption (about 2,5 litre per hour) and reduced emissions. The internal combustion engine drives the wheel through a hydrostatic transmission and the cutting deck is engaged by an electromagnetic clutch. Steering and height of cut adjustment are powered by electric motors. This machine is designed for easy servicing and low maintenance.

These machines, which meet stringent quality specifications, including EN ISO 9001:2001, can be equipped with biologically degradable fluids. This enhances suitability during maintenance of ecologically sensitive areas like water reservoirs and river banks.

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CSE Equipment is also the exclusive distributors in South Africa of Ransomes Jacobsen turf equipment and accessories. The company offers a technical advisory, spare parts and repair service throughout the country. Operator training is also provided.

Suggested caption

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Released by Lindy Morton, Festivitas, Telephone (031) 502 2374 or 083 268 6666

For further information

John du Plessis, National Sales Manager, Turf Division, **CSE Equipment Company**

Telephone 082 572 3000 or (011) 922 2038

Email johndu@cse.co.za

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