



ENERGREEN[®] America



PROFESSIONAL MACHINES

1242 Nowell Dr - Augusta - GA 30901 - USA - Phone CA 510 593 3144 - Phone GA 706 945 2800
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Contract: VSA Heavy Equipment #23-04-0713
Group: Remote Controlled Mowers and Tool Carriers
Item Number: 261

Shipping & handling is not included in the base price and will be calculated separately.

RoboEVO_{40HP}

RoboEVO is a remote-controlled tool-carrier made to work on slopes up to **55°** in all directions thanks to its low center of gravity and a special engine oil sump.

The machine is equipped with a **40 HP Diesel engine**, tracks with hydraulic tensioning system and a specific tracks profile that allows a perfect ground surface contact to climb over hill and mountain areas, embankments, cliffs, and in all those environments where the adherence is very low and a machine for high slopes is required.

The implements are mounted on a front hydraulic lifter which allows a quick-change system, making the work easier and multi-functional. The front lifter is able to work in three different ways: standard, floating and suspended thanks to an hydraulic accumulator. For the implements there are always one high flow closed circuit hydraulic line and two double effect open circuit hydraulic lines.





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Standard set up

ENGINE:

- YANMAR 3TNV88C 3-cylinder, 4-stroke, naturally aspirated, diesel, liquid-cooled engine
- Displacement 1.6 l
- Power 40 HP @ 3000 rpm
- Direct injection and electronic engine management via ECU
- Exhaust gas emission reduction system through EGR, DPF and without DEF (Ad-Blue)
- Emissions class EPA Tier 4
- Modified engine oil sump to grant lubrication up to 55° of inclination
- Reversible self-cleaning fan
- Single reinforced two-section radiator for coolant and hydraulic oil
- Positioning of the air filter on the left side of the machine body with quick access for maintenance

HYDRAULIC SYSTEM:

- Hydraulic system with Q8 HELLER46 mineral oil
- Dedicated oil cooling section into the machine radiator
- High pressure anti-abrasion flexible hoses
- Screw-on quick couplings
- Pressurized hydraulic circuit and immersion filter inside the tank
- Traction of each track by motor wheel operated by a dedicated closed circuit piston pump
- Double forward speed through hydraulic variation of the motor wheel displacement
- Hydraulically operated negative brake inside the motor wheel
- Gear pump in open circuit and multi-section electro-hydraulic distributor for services
- Closed circuit piston pump for the high flow output
- Hydraulic track tensioning with automatic pressure maintenance system
- Floating system of the lifter controlled by an electrohydraulic distributor
- Pneumohydraulic suspension system of the lifter obtained by means of a nitrogen accumulator

FRAME:

- Steel monocoque supporting structure
- Double steel roll-bar integrated into the machine body
- N. 4 hooks for lifting the machine on the frame
- Transmission drive wheels with hardening heat treatment
- Front idle wheels with hardening heat treatment
- Tracked undercarriage with 6 sliding rollers and front and rear track guiding shoes
- Hydraulically operated track tensioner equipped with mechanical safety spring
- Machine body hoods in painted steel
- Air filter protection in painted steel
- Rear radiator protection grille in painted steel and quick opening
- Mechanical quick coupling for the tool on the front lifter equipped with security lever
- 7 gal painted steel diesel tank
- 7 gal painted steel hydraulic oil tank



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SYSTEM & REMOTE COMMANDS:

- AUTECH radio control with a range of 500 ft working with FHSS technology
- N. 2 remote control batteries
- Remote control battery charger with lighter socket (10-30 V DC)
- Emergency button on remote control with immediate stop of the machine active functions
- Advancement controlled through single axis proportional joystick
- Steering and lifter management controlled through two-axis proportional joystick
- Potentiometer for controlling the maximum advancement speed (variable from 0 to 100%)
- Potentiometer for the correction of the trajectory and reduction of the drift in advancement
- Potentiometer for adjusting the flow of the high flow output
- Three-way selector for selecting the lifter operating mode (standard/floating/suspension)
- Double-effect hydraulic lines controlled through on/off control levers
- Armored carrying case for remote control and accessories supplied with the machine (weatherproof and shockproof)

Build Part Numbers:

N/A	RoboEVO with rubber tracks (10x3x2 in)
ENG0KT01000737	Screw Hydraulic Couplings (Machine Side)
ENG71305000054	US Dual BAND radio remote control
ENG20101000018	Mineral hydraulic oil
ENG0KT01000739	Orange Paint (STD)
ENG00401000206	Radiator hood protection
ENG91323000003	12-pole emergency remote control
ENG0KT01000675	Rear ballast comp. 70 kg