Technical features

Electric circuit
Battery type: Lithium NMC Hybrid
Battery Capacity: 19 kWh
Battery Voltage: 48V
Max Charge/Discharge: 300A
Motor Type: Brushless IPM motor
Motor Nominal Power: 8kW
Motor Peak Power: 15kW
Motor Controller: Inverter
Auxiliary voltage: 24V
Converter DC/DC
Remote control 24V - 6 PWM Lever

Hydraulic circuit
Oil Pressure: 200 bar
Oil Flow: 30 lt/min
N.1 Gear pump
N.1 Hydraulic proportional distributor
N.2 Hydraulic motors
N.5 Hydraulic cylinders

Geometric constrains:
Dimensions: 2450x1100x760mm
Weight: 1400kg
Undercarriage: H380mm W230mm
Grease belt tensioner
Telescopic Arm: Stroke 400mm
PTFE Sliding Guide
Maximum unload height: 1670mm
Shovel capacity: 300lt

Performance:
Max Lifting: 300 kg
Max Forward speed:2 km/h
Max Undercarriage Pull: 1700 kg
Max Undercarriage Torque: 3200 Nm
Maximum Cylinder Push: 4600 kg
Autonomy according to the operating mode: 4-8h
Standard Chaging Time (220V): 8h
Fast charging (380): 1h (@80%)

The *JOX E* machine is a hydraulically driven robot designed to perform work in confined spaces. The robot is designed to have a low height in order to access in confined spaces where conventional loader cannot access. Moreover the robot is equipped with a telescopic arm very useful to unload the material in boxes and to reach higher surfaces. The bucket is a clamshell bucket opened by an hydraulic cylinder.
The robot is powered by a lithium battery pack (19kWh) which fed the hydraulic circuit. All movement are hydraulic and operate by a proportional hydraulic distributor. The proportional remote control can control the robot very smoothly. The traction is entrusted by rubber tracks. The robot is equipped with cameras and lights.
The *JOX E* is remote controlled by the operator.