



Remote-controlled tracked self-propelled lawn mower

MC700



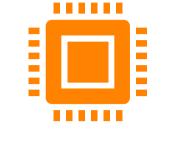


Product Features



Whole machine design:

Load-bearing body, high-efficiency and high-power travel system, tank-track type, oilelectric hybrid, anti-skidding system, active and passive skidding floating blade, air-assisted lifting mechanism, adaptive mowing device.



Control Systems:

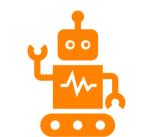
Vehicle-grade control and electrical system, industrial-grade anti-jamming remote control system, speed control and detection system, traction control system, manual and automatic traveling operation modes, LCD display of the whole machine status.

Powertrain:

Adaptive range extender system, Honda's top-quality engine, high-power AC and DC discharge function.

Safety Configuration:

Body stabilization system, ABS brakes, electronic anti-roll function, tilt protection function, rapid, fall and roll stop function, no operation automatic shutdown.



Intelligent Functions:

Straight line hold function, anti-collision function, collision stop function.



Route planning, inspection detection, IOT control.





Product Function

- 1. The whole machine adopts load-bearing three-dimensional frame, thickened brand high-strength steel welding, tensile, compressive, torsion strength; modular design, five components can be quickly assembled and repaired; dual-guided elastic support column and profiling cutter disk, to avoid damage caused by hard impact and vibration of the cutter disk.
- 2. 3kW closed-loop brushless motor drives the traveling system independently, the efficiency of high-speed transmission device reaches more than 95%, and the torque of the whole machine reaches 175N-m, which makes it easy to climb slopes and cross obstacles. Closed-loop speed control and detection system, 0-4km/h stepless speed change.
- 3. Tank track design, approach angle reaches 45°, super terrain adaptability, climbing angle \leq 40°, vertical obstacle \leq 15cm; composite track, high tensile strength, good cutting resistance, anti-wear; grounding pressure is small, easy to pass through the mud swamp.
- 4. Directional speed manual operation mode (MT) and directional speed automatic operation mode (AT) to meet the different operators' habits and scenarios of use.
- 5. Self-developed adaptive range extender system, adjust the output power according to the load changes, saving energy consumption, spike suppression current stabilization system, to achieve stable power output; equipped with high-power air-cooled generator and filtration system, which can achieve high-power AC and DC discharge, to meet the requirements of long-time use.
- 6. Outdoor grade control box, centralized arrangement of operating panels, protection grade IP55, operation, troubleshooting information and precautions are clearly posted to facilitate operation and maintenance.
- 7. Industrial grade remote control, protection grade IP65, with fall protection; standard 433MHz band, no need for radio filing, direct use; remote control signal bypassing obstacles and through the ability to strong antiinterference ability, the same space to support at least 100 sets of machines operating at the same time, the remote distance of 500m; lithium-ion rechargeable batteries, rechargeable and replaceable, to meet the needs of a variety of needs.
- 8. The whole machine three-color light display machine state, including oil warning, power warning, straight line

keep, electric control box temperature warning and safety tilt warning; remote control to achieve the whole machine control, including the engine one-key start-stop, walking control, speed control, cutter disk lifting and lowering and cutter speed, etc.; remote display real-time display of the operating state, including operating time, maintenance reminders, drive, operating mode, driving mode, safety tilt detection, obstacle detection and safety tilt mode. The remote control display shows the operation status in real time, including operation time, maintenance reminder, driver condition, operation mode, driving mode, safety tilt angle detection, obstacle detection, lamp status, signal strength and remote control power level.





Product Parameters

	ltem	Unit	MC700
	Overall dimensions (L×W×H)	mm	1420×1090×650
	Vehicle weight	kg	320
	Whole machine speed	km/h	0-4
	Working efficiency	m²/h	2500 *1
	Minimum ground	mm	90
	clearance	0	
	Maximum safety tilt angle		45
Vehicle	Range (pure electric) Horizontal motion rated	Min	30
Information		kg	500
	Power source		Hybrid power
	Whole machine display information		Voltage, power, temperature, low fuel alarm, straight line hold status, various alarm messages
	Remote control display information		 Machine status: self-test information, total operating time, purely electric working time, mileage, engine working time, maintenance reminder, low fuel alarm, low battery alarm, drive condition, operating mode, driving mode, straight hold status, tilt detection, obstacle detection, lamp status; Machine control status: emergency stop, engine ignition off, cutting disk lift, driving direction (forward and reverse steering); Remote control information: signal strength, remote control power;
	Controller		ECU
	Remote Control		Industrial Digital Display
	Remote Control Distance		≤500 422
	Remote control signa Communication Frequency	MHz Hz	433 10
	Engine maintenance	112	Screen Joon Alerte
	reminder		Screen Icon Alerts
	Auto Park		Yes
Control	Hill Start Assist		Yes
system	Body Tilt Detection Vehicle Speed Detection		Yes
	System		Yes
	ABS Brake System		Yes
	Electronic Anti-Rolling System		Yes
	Traction Control System		Yes
	Body Stabilization System		Yes
	Anti-interference		Hundreds of devices do not interfere with each other
	Sensor Mounting Reservation		LIDAR/CPS/RIDAR/CAM/GNSS/RTK
	Protection class		Automotive grade IP65
	Drive type		Crawler
	Crawler type		Tank type
	Traveling motor power	kW	2×1500
	Traveling speed Traveling operation mode	km/h	0-4 AT/MT
-	Driving torque	N∙m	175
Travel	Brake		Yes
system	Brake release		Yes
	Minimum Turning Radius	m	0
	Climbing ability	0	≤40
	Track elevation angle	0	45 <15
	Vertical obstacle crossing Front and rear inclination	° cm	≤15 ≤45
	Left/Right Tilt	0	 ≤45
	Model		honda gxv630
	Туре		Air-cooled four-stroke two-cylinder vertical shaft gasoline engine
	Power	kw/rpm	Maximum power 15.5/3600
	Maximum torque	N·m/rpm	48.3/2500
	Total exhaust volume	cm ³	688 1.9
		- I	
Engine	Oil capacity	L	
Engine system	Oil capacity Oil Drain Valve	L	Yes
	Oil capacity		
	Oil capacity Oil Drain Valve Grass dumping device		Yes
	Oil capacity Oil Drain Valve Grass dumping device Fuel tank capacity		Yes Official Standard Dump Tray 10
	Oil capacity Oil Drain Valve Grass dumping device Fuel tank capacity Fuel level display		Yes Official Standard Dump Tray 10 Liquid level meter



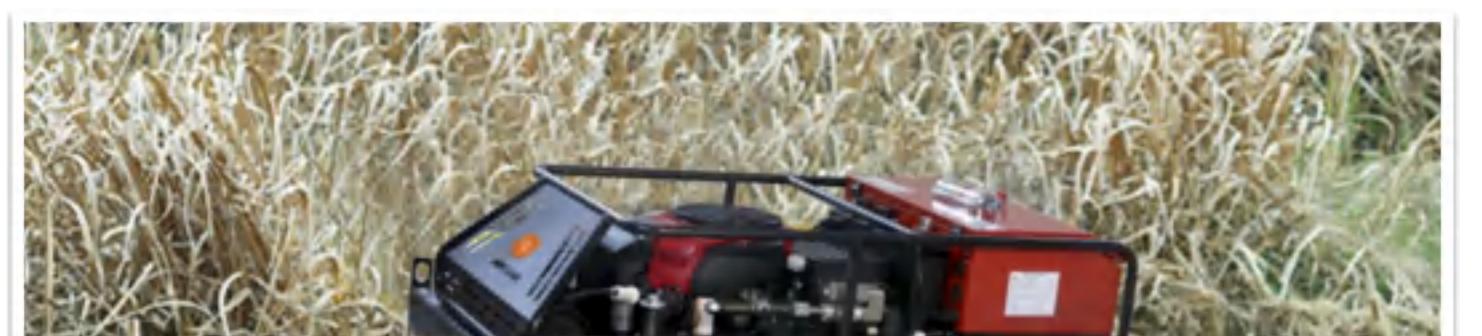
Product Parameters

	ltem	Unit	MC700
	Battery Brand		Ricoh
	Cell Composition		SLA (Sealed Lead Acid Rechargeable Battery)
	Battery capacity (20 hours	AH/hr	23
-	rate)		
-	Low Battery Alarm		Display and tri-color light
-	Extended range system		Adaptive
Vehicle	Generator Protection		Filter
Information	External Power Supply	V/W	24/480 (DC)
	External DC power supply interface		Cigarette lighter
	Pushbuttons		304 stainless steel with light
	In-box electrics		Anti-vibration Terminal
-	Outside the box		Vehicle-grade wiring harness
	Charging time	hr	8
	Protection class		IP55
	Cutting disk		Floating
	Cutting width	mm	700
-	Cutter disk lifting device		Flexible lifting
	Lifting aid		Air spring
	Stubble height	mm	5-90
Mowing	Stubble height display		Mechanical
system	Height indicator		Mechanical
	Cutter material		Manganese steel
-	Type of cutter Number of cutters	pcs	Segmented 2
	Rotational speed of cutter		Adaptive control
	Protection against hard		
	objects		Clutch protection
	Quick access port	0	Yes
	Control temperature alarm Anti-skidding system	°C	65 (display and tricolor light) Yes
	Emergency stop button		Yes
	Fall stop		Yes
	Rollover stop		Yes
	Crash stop		Yes
Safety	Remote control signal		Loss of downtime protection
Configuration	Protection racks		Yes
	Transmission protection		Yes
	Grass protection		front and rear leather curtains
	No-operation power-off time	min	30
	Remote control protection		anti-drop protection
	Control box lock		Yes
	Remote control protection		IP65
	Charger	pcs	1
	Remote Control	pcs	1
	Remote Control Charger Remote Control Battery	pcs	1
Accompanying accessories		pcs	
	Remote Control Waist Strap	pcs	
	Electric Control Box Key	pcs	1
	Fuel tank key Instruction manual + three	pcs	2
	packages		1
	USB Charger	24V	cigarette lighter connector
Optional Accessories	Inflatable pump	24V	optional
	AC Output		Optional 110V/2000W
	Trailer Hitch		optional
	Collision Alarm		optional
	Lights External mower trav		optional
	External mower tray Cargo Rack		optional optional
	Trailers		optional optional
	Snow pushers		optional
	Spraying kit		optional
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Application Scenario







Highways and roads

Photovoltaic energy storage





Agricultural production

Orchard forestry





Municipal embankments

Airport premises



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