

**BARBIERI** GROUP



**XROT** EVO



*CATALOGUE  
REMOTE CONTROL SLOPE MOWERS*



## A Common Philosophy

A compact and powerful ROBOT, fast working, that allows workers to operate in a safer and more comfortable area. A saving of time, labour and fuel that helps the environment and everyone who works in it.

With these aim and a lot of research and creativity BARBIERI company has built a **RANGE** of brilliant and safe Radio Controlled Machines combining robotic technology with high efficiency in a **LIGHT** and **POWERFUL** product; machines that require LESS ENERGY for their handling, doing the **same job** than a larger and more expensive equipment.

**Ecological**, economic, **efficient**, compact and **safe**.

Constant development, careful and precise TESTS and Barbieri's great passion for the environment created what is now considered a crucial solution in the radio controlled machines market: **XROT**, **eROT** and **XFLAIL** are the choice of suppliers who always want to improve.

Your need, our SOLUTIONS.

**Our Robot RANGES XROT and XFLAIL are equipped with the following features:**

MACHINES FULLY OPERATED BY RADIO CONTROLLER WITH BIGGER DISPLAY AND 'VIBRO ALERT' SYSTEM: ERROR CODES SHOWN ON THE SCREEN; ELECTRIC MOTORS FOR TRANSMISSION (48V) WITH AUTOMATIC BRAKES

- ▶ STURDY AND REINFORCED CHASSIS WITH ENGINE / BATTERY PROTECTION
- ▶ FRONTAL LED WORKING LIGHTS
- ▶ ELECTRICAL MOTORS FOR TRANSMISSION (48V) WITH AUTOMATIC BRAKES
- ▶ LIGHT TRACKS TYPE WITH TURF SHAPE, LESS IMPACT ON SOIL
- ▶ EXTREME CLIMBING ABILITY
- ▶ LIFTING HOOK
- ▶ HOURS COUNTER
- ▶ AUXILIARY PLUGS
- ▶ EASY MAINTENANCE AND REDUCED SPARE PARTS COSTS
- ▶ MULTI COLOURED FLASHING BEACON LIGHT INDICATING THE MACHINE'S WORKING CONDITIONS



Radiocontroller



**eROT** 70 EVO

**XROT** EVO

**XFLAIL** 80 EVO



**X Rot 70 EVO**

Remote control slope Mower



**X Rot 80 EVO**

Remote control slope Mower



**X Rot 95 EVO**

Remote control slope Mower



**e Rot 70 EVO**

Remote control slope Mower



**X Flail 80 EVO**

Remote control slope Flail Mower



# XROT EVO

BARBIERI GROUP  
MADE IN ITALY







## X ROT Evo Range - 70 & 80 Shared main features:

- ▶ FAMILY DESIGN
- ▶ ELECTRONIC AND DIGITAL CONTROL of:  
ENGINE, FLASHING LIGHT, GPS, ANTENNA, LOGIC BOARDS and SPEED
- ▶ REINFORCED CHASSIS WITH ENGINE PROTECTION
- ▶ MODELS COMPATIBLE WITH GPS
- ▶ RADIO CONTROLLER WITH TOTAL REMOTE CONTROLS
- ▶ AUTOMATIC SPEED REDUCTION WITH STEEP SLOPE
- ▶ ALL MODELS FIT ACCESSORIES INSTALLATION



Powered By  
**Kawasaki** POWERED BY  
**VANGUARD**



# XROT 95 EVO

BARBIERI GROUP  
MADE IN ITALY





# A Unique Concept: LIGHT and STRONG



## X ROT 95 evo - Main features:

ADJUSTABLE CUTTING HEIGHT by RADIO CONTROLLER from 5 cm. to 14 cm.

- ▶ MULCHING ROTATING BLADE WITH FLOATING END
- ▶ ABILITY TO CUT IN BOTH DRIVE SENSES
- ▶ MACHINE WITH SERVO DRIVE GPS, CONTROLLED BY APP INSTALLED ON SMARTPHONE (iOS e ANDROID)
- ▶ GASOLINE ENGINE "KAWASAKI" EFI FS730V, WHICH ASSURES CONSTANT POWER, HIGH EFFICIENCY and AUTOMATIC ADJUSTMENT IN INCREASING SLOPE
- ▶ DOUBLE TANK 2x16 LT. TO ASSURE GREAT AUTONOMY
- ▶ REINFORCEMENTS ON CHASSIS AND ANTI-DERAILMENT RUBBER TRACKS SYSTEM
- ▶ MACHINE SUITABLE FOR HIGH PRECISION AGRICULTURAL WORKS





# X FLAIL 80 EVO

BARBIERI GROUP  
MADE IN ITALY





# The Suitable IDEA: HEAVY DUTY



## XFLAIL 80 evo Range - Main shared features:

- ▶ ADJUSTABLE CUTTING HEIGHT BY RADIO CONTROLLER
- ▶ HORIZONTAL ROTOR WITH HIGH THICKNESS and 40 'Y' BLADES, THE IDEAL SOLUTION FOR HEAVY MOWING WORKS
- ▶ BOOSTED ENGINE 23 HP VANGUARD
- ▶ GREAT SLOPES WORKING ABILITY: 100%
- ▶ STRONG BODY FOR HEAVY DUTY WORKS
- ▶ "BEACON NET" FLASHING LIGHT TO SHOW MACHINE WORK STATUS
- ▶ AUTOMATIC RUBBER TRACKS TENSION ADJUSTMENT
- ▶ WATERTIGHT E-MOTORS WITH BRAKES

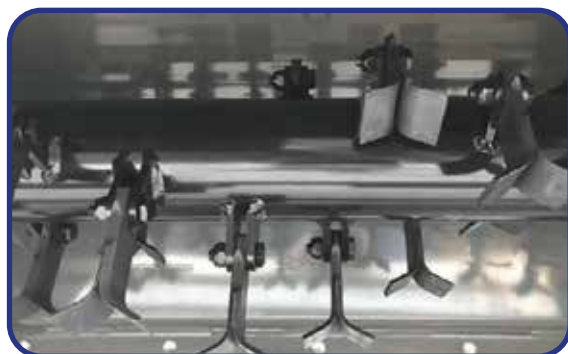
The XFlail range is characterized by a horizontal cutting system and floating knives: this system is able to cut and shred not only wet and tall grass but also shrubs, brambles and small trees up to a diameter of 5/6 centimetres.

The main feature is that the cut material is uniformly distributed on the ground. All vegetative residues are finely chopped and then rapidly decomposed, avoiding leaving residues on the ground for a long time.

The knives are fixed to the rotor with a system that allows rotation on the fixing screw in case of violent impact against obstacles in the cutting area: this solution allows not to damage the rotor and reduce the vibrations transmitted to the machine, absorbing the energy created by accidental impact.

The XFlail range is particularly recommended to all maintenance workers who work along the roads, where abandoned waste can be found, not easily visible with tall grass, or to operators who are in charge of cleaning the undergrowth, where there are shrub growth or re-growth of trees.

Despite having all these professional features, the XFlail 80 model is easily transportable on vans or small trucks, which allows quick movement from one area to another during the working day, making this machine a very flexible solution to very demanding and critical jobs.





# SERVO DRIVE

## GPS Compass Servo Drive™ 2.0



### Integrated SERVO DRIVE Sistem 'GPS', fully operated from Remoted Control without any other additional device

The new Integrated hardware includes the telematic device GPS positioning system and the Servo Drive features, all-in-one. Fully operated by Radio Control includes also the high precision localization of the unit by the RTK (Real Time Kinematics) which allows the recording for future re-use of working path with the possibility to repeat the operation an infinite number of times.

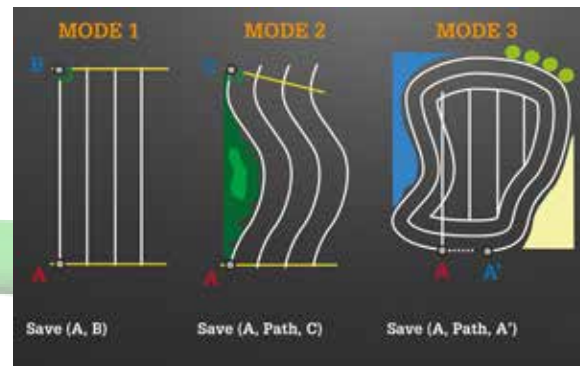
Additional feature is the Process Control through BHV App on Tablet or Smartphone (Android or iOS) with further possibility to adjust speed and working area.



### HOW IT WORKS

### THREE WORKING MODES

### SMARTPHONE CONNECTION





# ACCESSORIES

The Multiple Use

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**Flex Trimmer**



**GPS Compass Servo Drive**



**Snow Blade**



**Rear Lifting System**



**Flex Cut**



**MiXTY Atomizer Sprayer System**



***E*ROT 70 EVO**

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***REMOTE CONTROL SLOPE MOWER***

***EROT 70 EVO***

***100% BATTERY OPERATED***





## Main features:

### Full electric remote controlled mower

- ▶ From 3 to 5 working hours (depending on working conditions)
- ▶ 6 hours recharging time, with a 2 phases STD charger
- ▶ Variable blade speed
- ▶ Electric motor w/ automatic brakes
- ▶ Settable cutting height by remote control (from 30 to 150 mm)
- ▶ Both working direction forward and backward
- ▶ GPS READY  
activable by remote control or by app (via WIFI)
- ▶ Climbing ability slope 100% (45°- dry conditions),  
slope limited only by grip
- ▶ Low frame for more stability and accessibility
- ▶ Very low maintenance joint lubrication only
- ▶ Very light weight for light soil impact
- ▶ Lifting hooks for transportation
- ▶ Hours counter
- ▶ Cruise control w/ 5 different speeds
- ▶ Shock resistant battery pack case
- ▶ Beacon light w/ colours changing showing machine working status

## What is new?

### Digital Radio Control

Enhanced performance for more safe and friendly drive experience.

### Added options:

Display with main infos and diagnostic. 5 step speed reducer, VIBRO-ALERT for dangerous operation. Integrated buttons for servo drive feature.

### Drive system:

The drive power has been doubled with the winning eRot drive system:  
50% more electric power in the drive system  
Enhanced performance of the drive Motors  
Driving speed automatically reduced in dangerous situation.





# **E**ROT 70 EVO

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## **Telemetry & telematics 4.0**

The remote control allows the interaction between 'Servo Drive' and several operational data in the cloud.

Prompt troubleshooting is assured by diagnostic system and updating software.

### **Added feature:**

Embedded GPS-RTK feature for precise automatic drive. Wifi LAN for connection with other local device. LTE 4G assures a very fast connection to the web.

### **Drive Control System:**

It will warn the operator about potential dangerous situations and it will regulate automatically the speed at a safety value.

All functions are digitally controlled by an Electronic Control Unit connected by 3 devoted CAN-BUS for Engine Drive system, GPS and communication control.



## **Engine**

**100% ELECTRIC BHV MOD. 83973N 10 kW BATTERY PACK 48 V – 200 A – 10 kW**

Electrochemistry: MNC Lithium nickel manganese cobalt oxide Module type: Flat or pouch in a rigid alu case

Performance: good specific energy and specific power density

BMS: High quality (made in USA)

- ✓ No Cable = rigid connection
- ✓ Designed for high demanding use
- ✓ Variable speed - BATTERY PROVIDES HIGH POWER PEAK
- ✓ Electronic Brake
- ✓ Full digital control



# MAIN FEATURES




CHARACTERISTICS	PRODUCT CODE: 6200 300
Working Width.....	70 cm
POWER SUPPLY	
Battery Pack.....	200 Ah
Power (kW) .....	10 - 48v - Litio NCM
WORKING Time .....	3 to 5 Hours depending on conditions
Recharging Time .....	6 hours with std 2 phases charger (220 V)
CUTTING UNIT	
Cut System.....	Mulching
Engine type .....	PMAC-BHV 17nm@3000 rpm
No. of Blades.....	2
Working Area.....	Grass / Brush
Workable grass/brush diam. (mm).....	2 to 4
Working Capacity (m <sup>2</sup> /h)* .....	3000
Height cut (mm).....	Min 30 Max 150
GPS READY .....	Yes
DATA	
Overall dimensions ( WxLxH).....	1206x1333x631 mm
Machine Weight .....	370 kg
Compacting Pressure.....	137 gr / cm <sup>2</sup>







	<b>e ROT 70-EVO</b> Code 6200 300	X ROT 70-EVO Code 6200 80	X ROT 80-EVO Code 6200 84	X ROT 95-EVO Code 6200 90	X FLAIL 80-EVO Code 6200 254
Working Width	70 cm.	70 cm.	80 cm.	95 cm.	80 cm.
<b>ENGINE</b>					
Petrol Engine Elec. Starter/		<b>VANGUARD B&amp;S 3565</b>	<b>KAWASAKI FS 481V</b>	<b>KAWASAKI FS730V EFI</b> Electronic	<b>VANGUARD B&amp;S 3864</b>
Electrical engine	<b>BHV 83973N</b>				
Torque (Nm)		38.4 @ 1800 RPM	38.4 @ 1800 RPM	54.3 @ 2000 RPM	48 @ 2800 RPM
Power (hp) / kW - Capacity	9,4 kW - 184 Ah	18 HP	13 HP	23 HP	23 HP
Battery Pack	200 A - 10 kW - 48v Litio NCM				
Battery autonomy (hours)	uo to 5 hours				
Fuel Tank Capacity (Lt)		16 Lt.	16 Lt.	32 Lt.	16 Lt.
<b>CUTTING SYSTEM</b>					
Cut System	Mulching	Mulching			Flail
No. Of Blades	2 swinging blades	2 swinging blades			40 Y Blades
Workable grass/brush (dia)	Grass 2/4 mm.	Grass 2/4 mm.			Brushes 4 cm.
Working Capacity Area m <sup>2</sup> /h (*)	3000	3000	3400	4000	2800
<b>TECHNICAL DATA</b>					
OVERALL DIMENSIONS	1206x1333x631 mm	1206x1282x807 mm	1256x1327x807 mm	1450x1375x844 mm	1378x1311x813 mm
Net Weight	370 Kg.	370 Kg.	380 kg.	480 Kg.	450 Kg.
Compacting Pressure	137 gr/cm <sup>2</sup>	130 gr/cm <sup>2</sup>	135 gr/cm <sup>2</sup>	168 gr/cm <sup>2</sup>	166 gr/cm <sup>2</sup>

(\*) cutting conditions: grass maximum height 40 cm.; dry conditions; flat ground 25°



CODE	DESCRIPTION (Accessories)	e ROT 70 EVO	X ROT 70 EVO	X ROT 80 EVO	X ROT 95 EVO	X FLAIL 80 EVO
6217008	SET OF ELECTRICAL SOCKET/PLUGS FOR REAR LIFTING SYSTEM		✓	✓	✓	
6217004	REAR LIFTING SYSTEM		✓	✓		
6217007	REAR LIFTING SYSTEM for X ROT 95				✓	
6217005	MiXTY - ATOMIZER SPRAYER SYSTEM (code 6203200 included)		✓	✓	✓	
6217006	SET OF QUICK FIT ATOMIZER (to be installed with the code 6217004)		✓	✓	✓	
6217001	SNOW BLADE 135 CM To be installed with Rear Lifting System (cod. 6217004) and Set Electrical Socket (cod. 6217008)		✓	✓		
6217002	FLEX CUT - FRONT SIDE ARM MOWER WITH TWO PIVOTING BLADES Socket (cod. 6217012) / (cod. 6217013)		✓	✓		
6217012	PREDISPOSITION FOR FLEX-CUT for Mod.: "X-ROT 70 EVO B&S"		✓			
6217013	PREDISPOSITION FOR FLEX-CUT for Mod.: "X-ROT 80 EVO Kawasaki"			✓		
6203200	MULTIFUNCTION STORAGE BOX		✓	✓	✓	
6217003	FLEX TRIMMER - BACK SIDE TRIMMER ARM To be installed with Rear Lifting System and Set Electrical Socket (cod. 6217008)		✓	✓	✓	
Paint	RAL 2011 "KOMMUNAL"	✓	✓	✓		
6217014	GPS SERVO DRIVE COMPASS	✓	✓	✓	✓	
6217015	RTK PORTABLE ANTENNA KIT	✓	✓	✓	✓	
6203658	SHOULDER BAG FOR RADIO CONTROLLER	✓	✓	✓	✓	✓

(\*) cutting conditions: grass maximum height 40 cm.; dry conditions; flat ground 25°





If you need more information or a personal contact  
we are at your disposal at the following contact details:

**CONTACTS:**



(+39) 0444.885722



BARBIERI srl - Via Seccalegno 23, 36040 SOSSANO (VI) ITALY

[www.barbieri-group.com](http://www.barbieri-group.com)



spare parts: [service@barbieri-fb.com](mailto:service@barbieri-fb.com); [support@barbieri-fb.com](mailto:support@barbieri-fb.com)

export / commercial: [info@barbieri-fb.com](mailto:info@barbieri-fb.com)





**BARBIERI** GROUP  
MADE IN ITALY

**Barbieri**

**BARBIERI SRL** - Power Product

Registered office: 00144 ROMA (RM) PIAZZALE LUIGI STURZO N. 15

Production site and factory: Via Seccalegno, 23 36040 SOSSANO (VI) ITALY

Tel. +39 0444 885722 - Fax +39 0444 885482

email: [info@barbieri-fb.com](mailto:info@barbieri-fb.com)

[www.barbieri-group.com](http://www.barbieri-group.com)