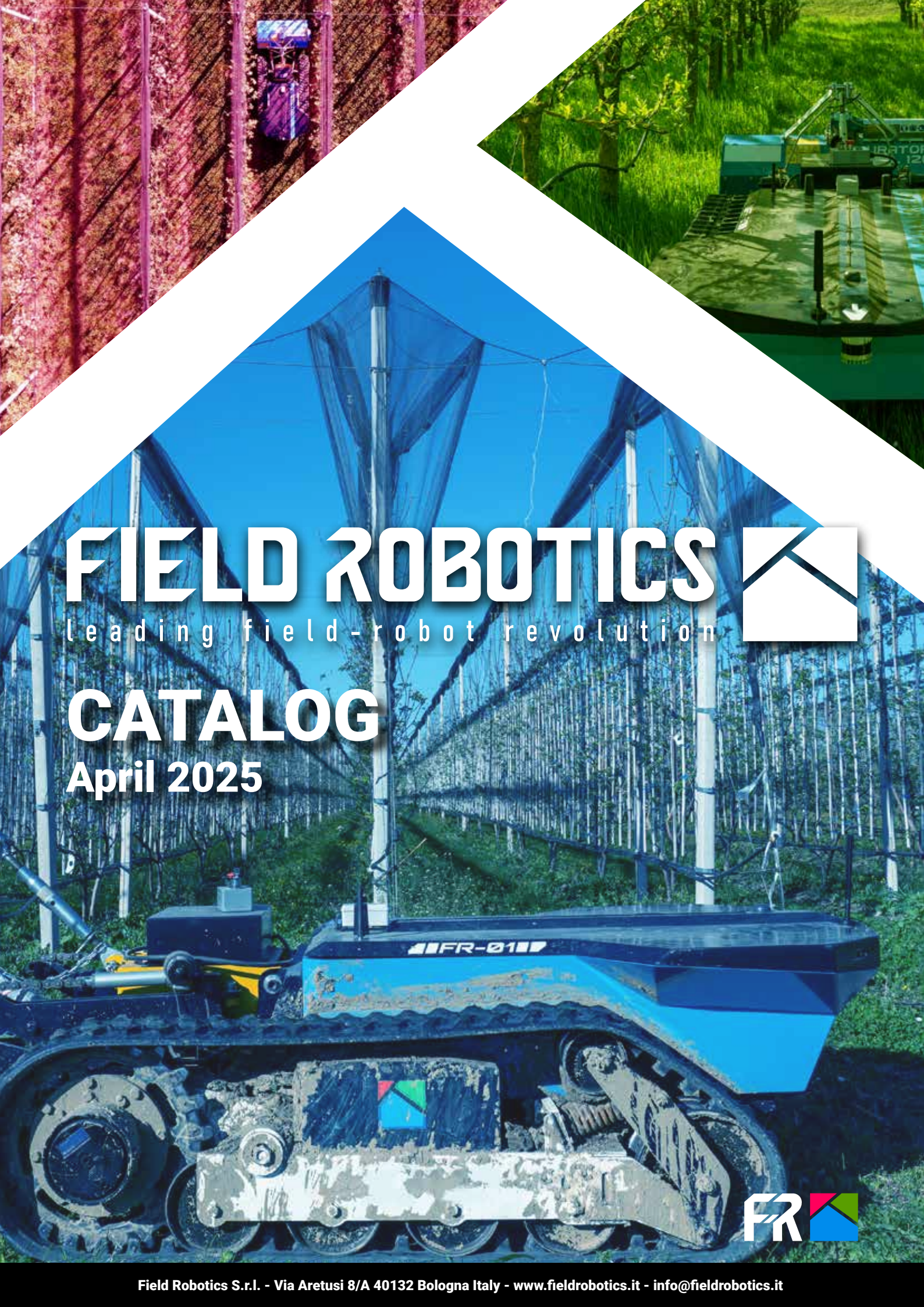




FIELD ROBOTICS

leading field-robot revolution

CATALOG

April 2025



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Robotics for orchards and vineyards

THE HAMMERHEAD

Technical specifications

Dimensions	(L) 2,4 m x (l) 1,3 m x (H) 0,6 m
Track width	230 mm
Ground clearance	170 mm
Height of center of gravity	310 mm
Weight without tools	1050 kg
Frame	Welded - Powder Coated

Performance

Maximum speed	7 km/h
Payload	1 ton
Lifting capacity	600 Kg balanced (recommended <400 Kg)
Max lateral slope	50°

Power

Traction power	2 x 5 kWh electric motors
PTO Power	10 kWh electric motor
Total power	Equivalent to a 70 hp traditional tractor

Battery

Battery	1 x 24kWh, 48V lithium battery
Weight	160 kg
Battery life	Up to 8 hours

Hammerhead: an electric-powered rover with driver-assisted navigation, equipped with a series of plug-and-play tools.

MAIN FEATURES

Continuous operation with the possibility of replacing the battery. Modular tools for shredding, mowing, inter-row management and spraying.

MONITORING SERVICES

- Prescription map creation
- Flower density estimation
- Fruit quantity estimation
- Accurate forecasting of total production
- Water stress detection

ADVANTAGES

- Labor savings
- Reduction of soil compaction
- Easy transportation
- Payload up to 1 ton

GUIDE & SAFETY

Control: ADAS radio control
(Advanced Driver Assistance Systems)

Safety: Safety sensors, 4 emergency buttons, electrified mechanical bumper

Navigation: RTK GPS, Lidar, IMU, Video cameras

Inter-row cutter Standard



STANDARD INTER-ROW CUTTER B1

- Ideal for farms up to 15 hectares and hilly terrain.
- Designed for vineyards and orchards, with a minimum distance between vines of 45 cm.
- The rotating head tilting up to +/- 30° facilitates work on slopes and uneven terrain, ensuring precise and uniform milling.

STANDARD EQUIPMENT

- Cardan shaft for smooth and powerful transmission.
- Rotary cutter shaft available in various sizes (45, 60 and 75 cm) for different working widths.
- Working wheels for precise depth adjustment.
- Electric controls directly manageable from the rover and remote control.
- Automatic hydraulic sensor adjustable to adapt to the needs of the field.



Frame	Small	Medium	Large
Row width	1200 mm/1800 mm	1800 mm/2600 mm	2400 mm/3500 mm
Working width	450/600/750 mm	450/600/750 mm	450/600/750 mm
Inclination	30°	30°	30°
Weight	160 Kg	190 Kg	210 Kg
Rover Center Opening	950 mm	1100/1450 mm	1500/1750 mm



Medium shredder

in collaborazione con



MEDIUM SHREDDER BTM

- Ideal for shredding vine shoots and orchard pruning. Perfect for clearing undergrowth and mowing grass.

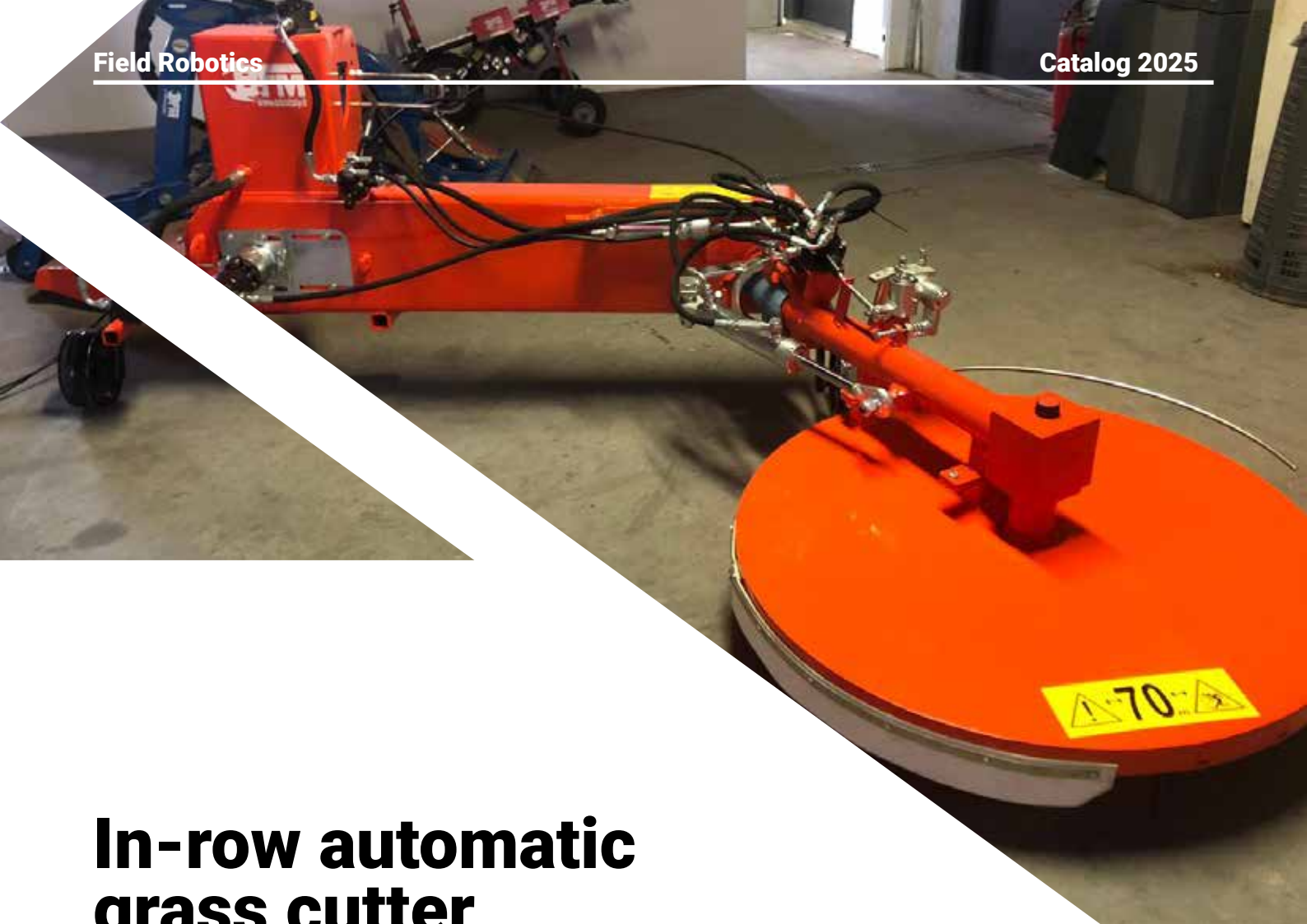
EQUIPMENT

- Universal three-point hitch.
- Gearbox with internal freewheel in oil bath.
- Lateral movement is electric and can be controlled directly from the rover/remote control.
- CE safety protection.
- Rear roller.

ACCESSORIES

- Protected cardan shaft A5.
- Pair of sleds.
- Rear rakes kit.
- Front wheel kit.
- Steel dust abatement casing.
- Revers supplement.

Code	Weight	Working width	Lateral displacement
BTM-105	195 kg	1050 mm	350 mm
BTM-120	240 kg	1200 mm	350 mm
BTM-135	280 kg	1350 mm	350 mm
BTM-150	325 kg	1500 mm	350 mm



In-row automatic grass cutter



IN-ROW AUTOMATIC GRASS CUTTER DB12

- Designed for efficient cutting thanks to the soft polyurethane wires with a rigid core, without damaging the trunk.
- The leveling support disc brushes the ground, making it ideal for cleaning and cutting grass in vineyards and orchards, as well as for cutting at the roadside on slopes.
- The tilting head up to +/- 30° allows you to work on trunks and hilly terrain.

STANDARD EQUIPMENT

- Cardan shaft.
- Support wheels for adjusting the working depth.
- Cutting disc with a choice of size.
- Electric controls directly manageable from the rover and the remote control.
- Automatic hydraulic feeler.
- Wire holder bell containing 20 meters of wire.

Frame	Small	Medium	Large
Row width	1200 mm/1800 mm	1800 mm/2600 mm	2400 mm/3500 mm
Working width	700/900/1000 mm	700/900/1000 mm	700/900/1000 mm
Inclination	30°	30°	30°
Weight	160 Kg	190 Kg	210 Kg
Rover Center Opening	950 mm	1100/1450 mm	1500/1750 mm



In-row automatic disk



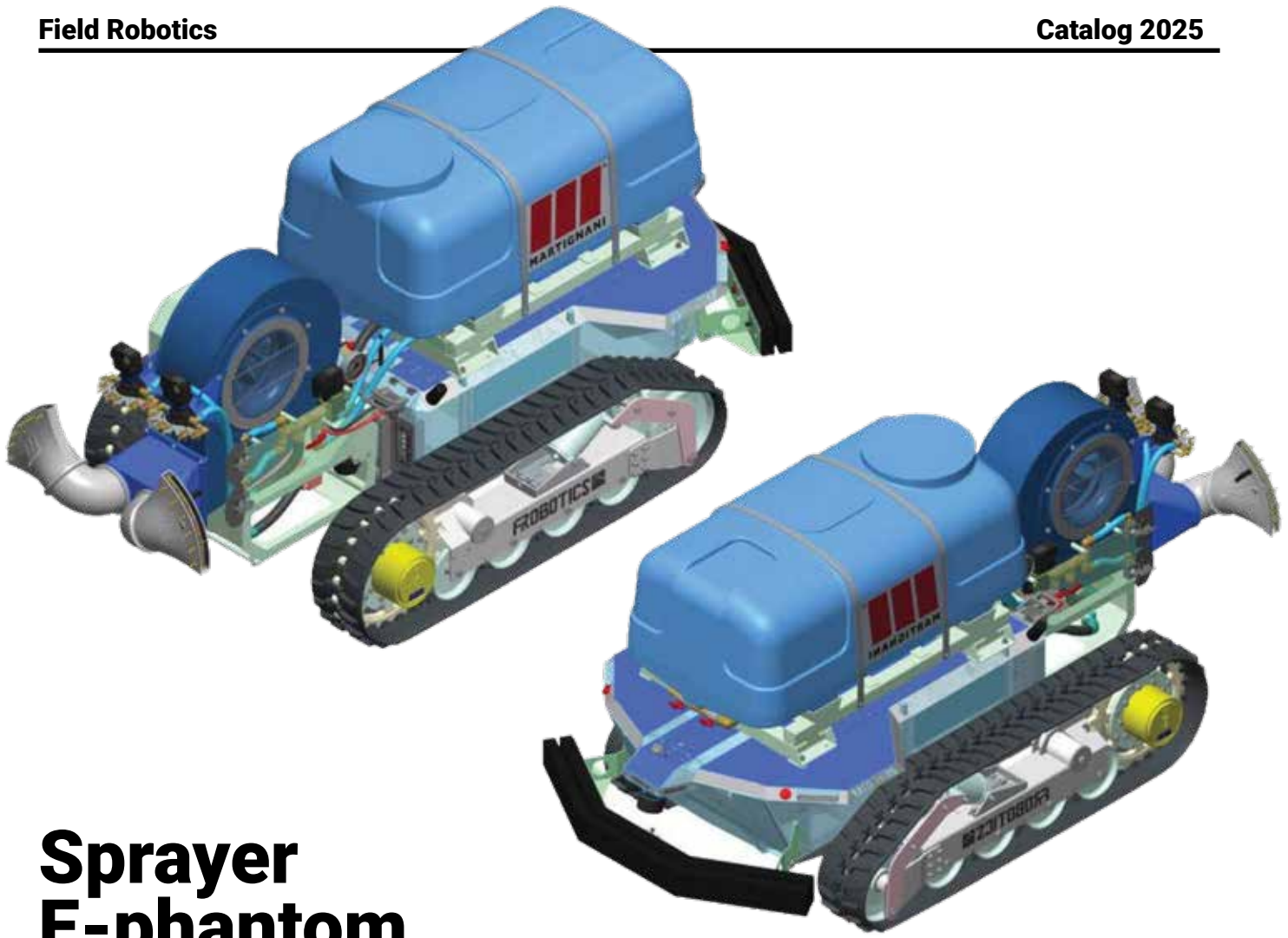
IN-ROW AUTOMATIC DISK DB11

- Ideal for stony terrain, the DB11 uses discs to move the soil and form small clods, allowing the stump to breathe.
- The adjustable head up to +/- 30° easily adapts to slopes, ensuring uniform processing.

STANDARD EQUIPMENT

- Powerful transmission.
- Disc shaft (choice of various available lengths).
- Work wheels for depth adjustment.
- Electric controls directly manageable from the rover and remote control.
- Automatic Hydraulic Probe with adaptation to irregularities with emergency lever.

Frame	Small	Medium	Large
Row width	1200 mm/1800 mm	1800 mm/2600 mm	2400 mm/3500 mm
Working width	450/600/750 mm	450/600/750 mm	450/600/750 mm
Inclination	30°	30°	30°
Weight	162 Kg	192 Kg	212 Kg
Rover Center Opening	950 mm	1100/1450 mm	1500/1750 mm



Sprayer E-phantom



powered by



Electric sprayer with low volume electrostatic distribution, ideal for vineyards, high density orchards, berries etc. mounted on an autonomous electric tractor with modular tool carrier platform.

- **Full Electric** with 20 kW drive, 48V.
- **Capacity** 350 lt.
- **Anti-drift device** for electrostatic charge of micro-droplets.
- **High-performance centrifugal fan** with MINIMUM energy and acoustic impact.
- **Self-priming centrifugal pump:** ensures perfect agitation of the product in the tank and constant supply of the nozzles.
- **High-precision mechanical dosers** for managing the dispensing (4.0 electronic control systems available).
- **Uniform and constant micronization.**
- The supply of the nozzles at very low pressure (1.5 bar), the use of rotary pumps and the increased section of the nozzles (4 mm.) are features that make the sprayer e-phantom particularly suitable also for the distribution of micro-biological products.



Shredder



The NOBILI TL TRUTURATORS are semi-mounted machines, applicable to the three points of the rover's rear lift. When working, they rest on the roller, which regulates their height.

The rotor is equipped with interchangeable "mobile" knives, with different shapes and sizes, to adapt the shredder to the various work needs. Available in sizes 1200 - 1500 - 1800 mm.

The Triturator was built in compliance with European Standards.

Technical characteristics	TL 120	TL 150	TL 180
Working width	1200 mm	1500 mm	1800 mm
Number of knives	24	30	36
	48	60	72
Weight	150 Kg	185 Kg	205 Kg