

2025

# Tools Book

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Tools book  
vitibot

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Version 2.2.7  
Date February 2025



# Electric Intervines

## THE ULTIMATE REFERENCE OF INTERVINES ON THE MARKET

Discover Vitibot's expertise for precision work in the vineyards!

Thanks to the torque sensor system of our sensors, our intervines ensure precise weeding while minimizing the risk of damaging vines.

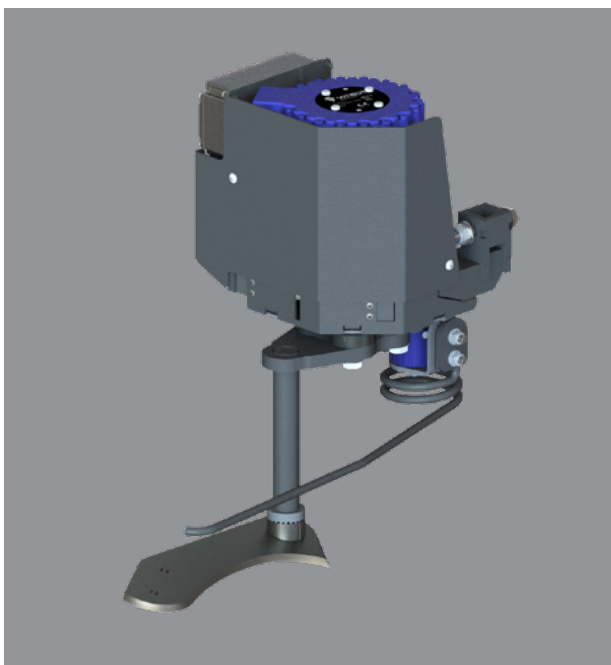
Powered by electric motors, they guarantee unmatched efficiency under the row. With multiple configuration options, you can combine up to four intervines simultaneously and integrate various tools such as electric mowers, plows, or discs to meet the specific needs of your vineyard.

Exclusively, Vitibot transforms your intervines into true mapping instruments: the calibration kit allows precise recording of each vine, paving the way for optimized and personalized vineyard management

# Electric intervines

## Key features

- 100 % électric
- Precise and ultra-fast adjustments of the sensor's sensitivity and blade torque via smartphone
- Highly responsive tool (retraction + blade return) for greater efficiency during operation
- Smart tool: detects issues and ensures safety in case of malfunction
- Compatible with other mechanical and electric tools
- Ability to operate up to 4 intervines simultaneously (under conditions)
- Maintenance-free
- Delivered with its handling cart (for easy assembly/disassembly of the tool)

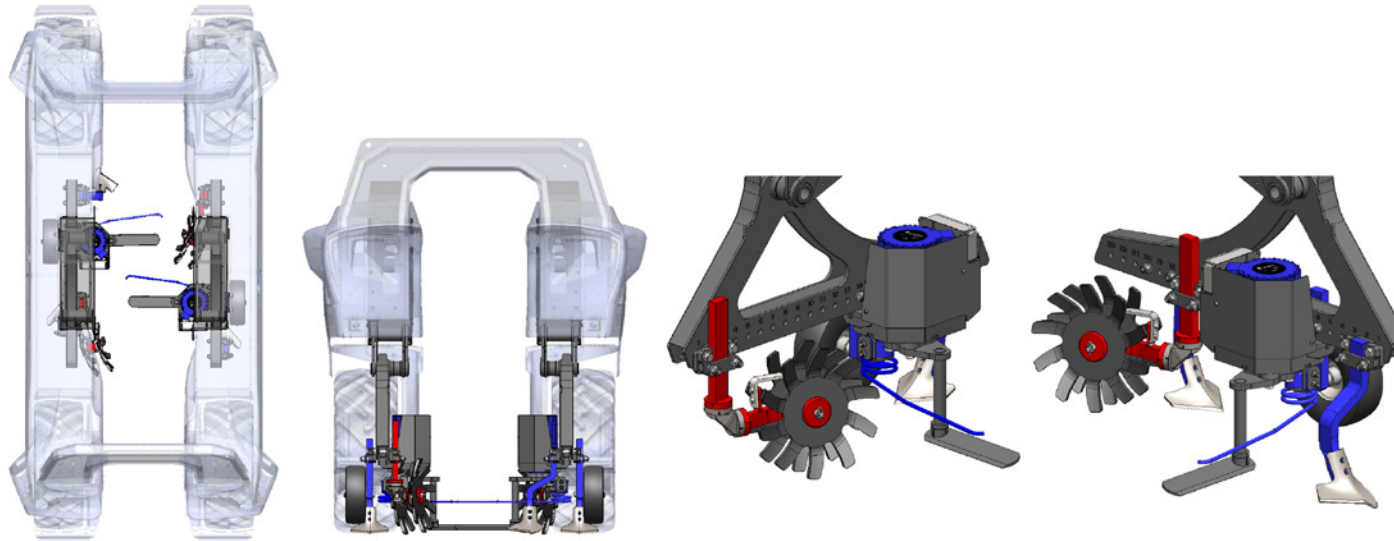


*Les intercepts électriques permettent de réaliser la cartographie automatique. Pour une précision de vos vignes au cm.*

## Technical datas

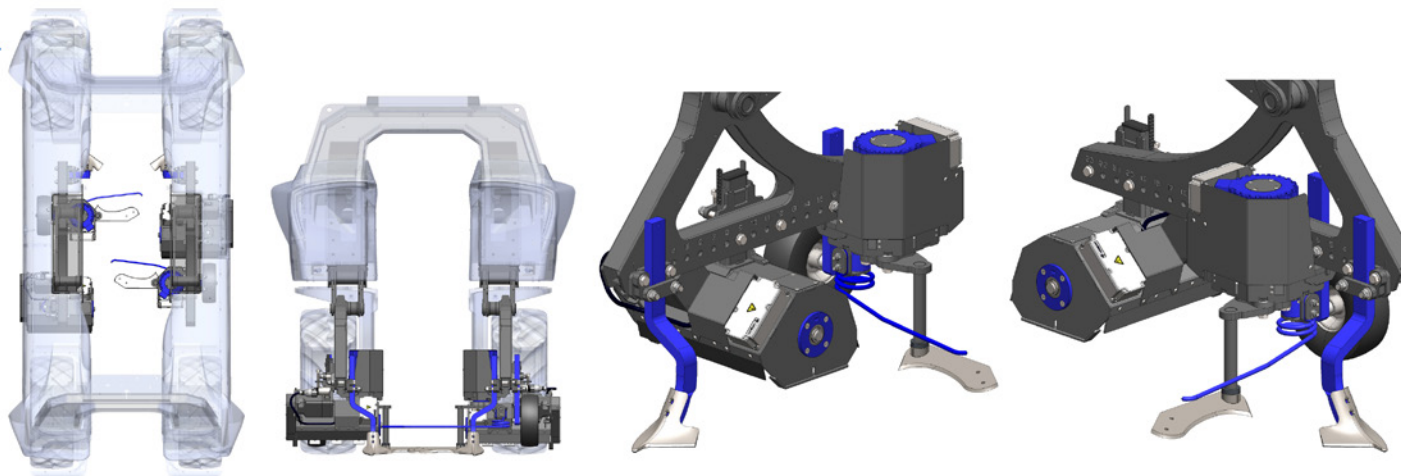
Overall dimensions	(L) 700 mm x (H) 530 mm
Weight	50 kg
Transmission	Brushless Motor - IP67
Detection sensors	3 sensors included: lower, right, and upper sensors (height adjustable from 90 mm to 220 mm above the blade, with tilt and safety clearance adjustments)
Sensor sensibility adjustments	Quick adjustment via smartphone. High precision thanks to the torque sensor, allowing work in young plantations and heavily weeded vineyards
Blade length	350 mm Saber blade
Blade working force	High blade torque, adjustable via smartphone
Working speed	Up to 6 km/h.
Depth adjustment	Using the tool-holder pole in fixed or floating mode (with leveling wheels).

## Possible tools combinations



With a large range of  
mechanical tools

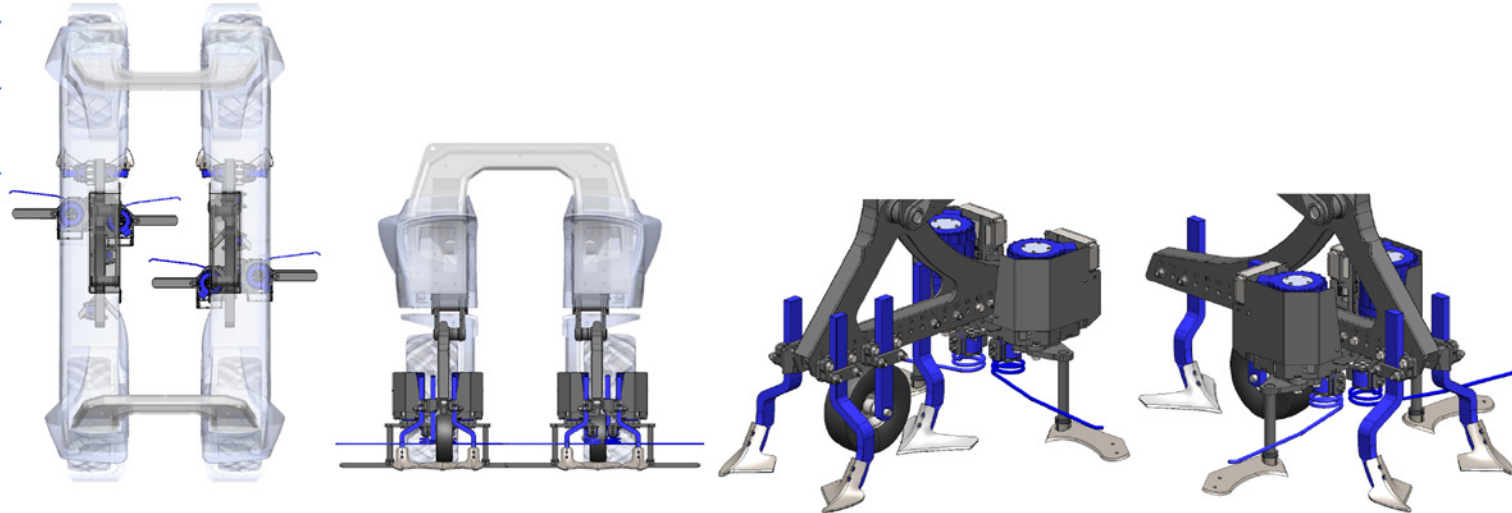
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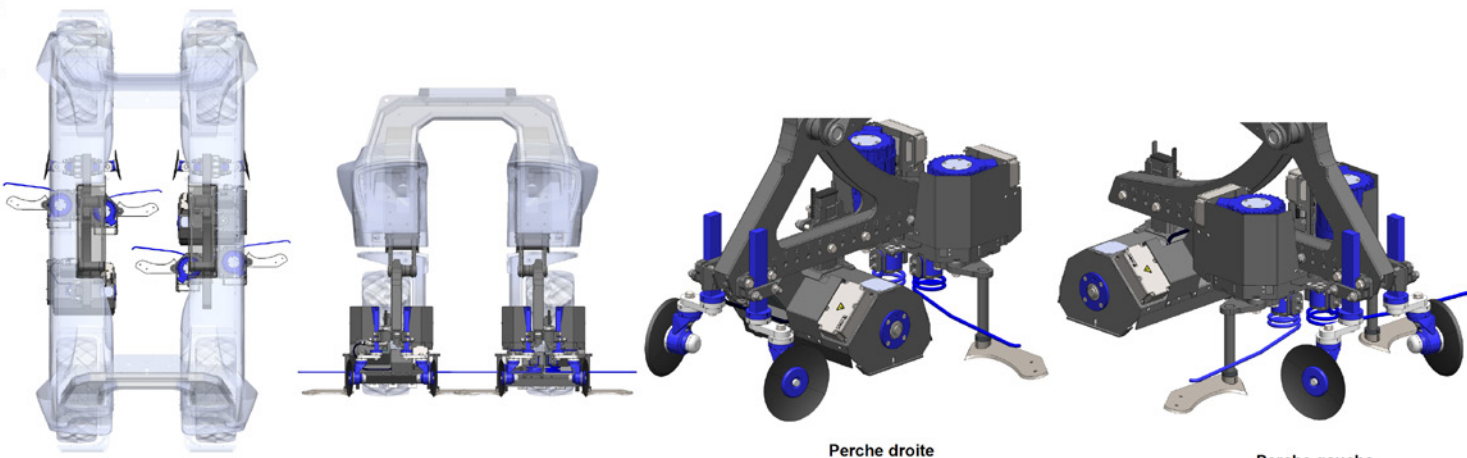
With the  
electric mowers

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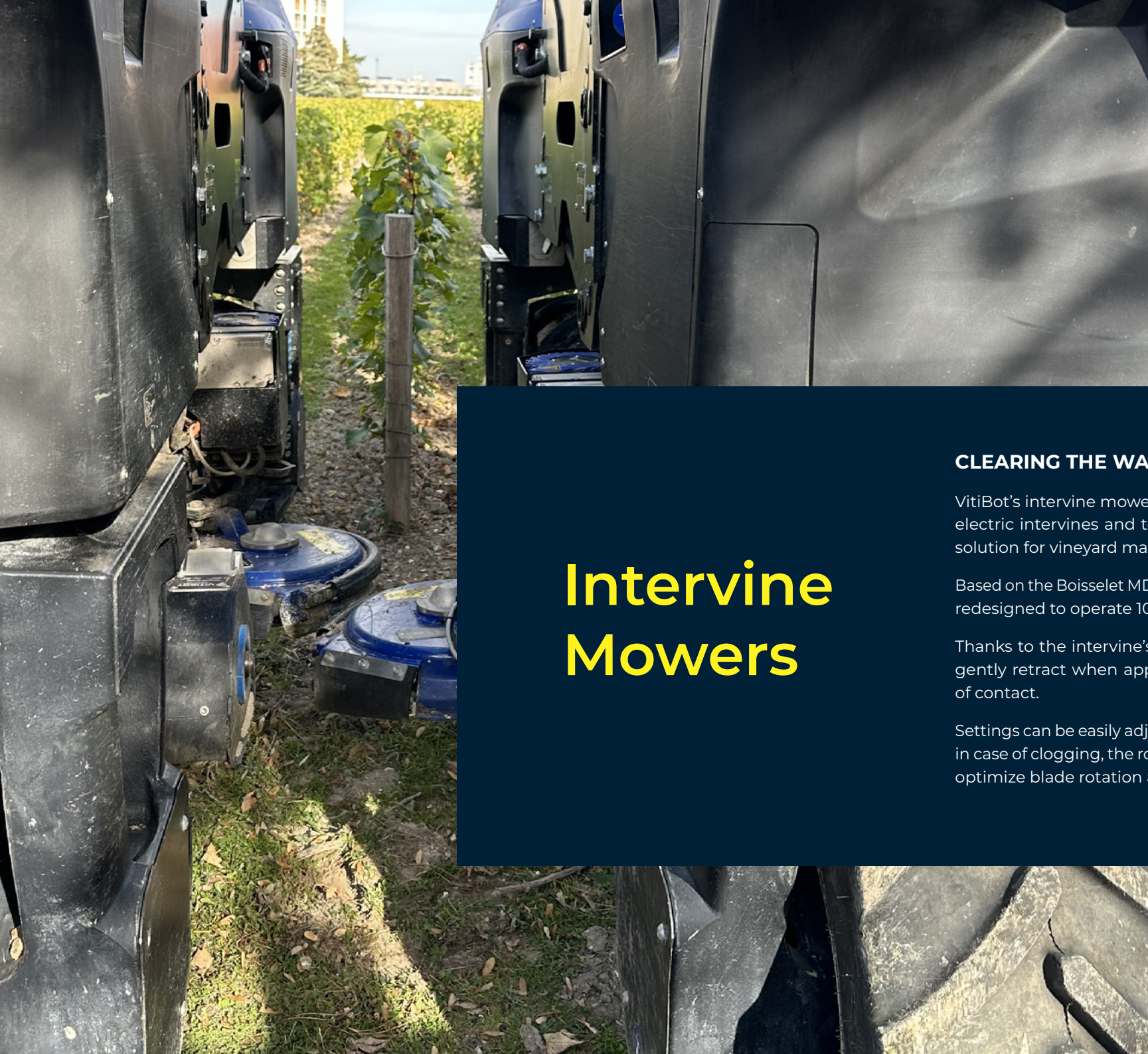
# Electric Intervines



4 electric  
intervines



With electric mowers,  
4 intervines and opening tools



# Intervine Mowers

## CLEARING THE WAY UNDER THE ROW

VitiBot's intervine mowers, specially designed to adapt to the electric intervines and tool-holder boom, offer an innovative solution for vineyard maintenance.

Based on the Boisselet MD400 model, they have been completely redesigned to operate 100% electrically.

Thanks to the intervine's motor and a detection sensor, they gently retract when approaching vines, minimizing the risk of contact.

Settings can be easily adjusted via the control smartphone, and in case of clogging, the robot automatically adjusts its speed to optimize blade rotation and ensure continuous performance.

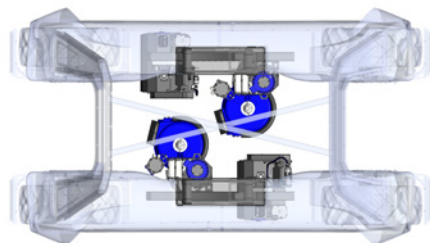
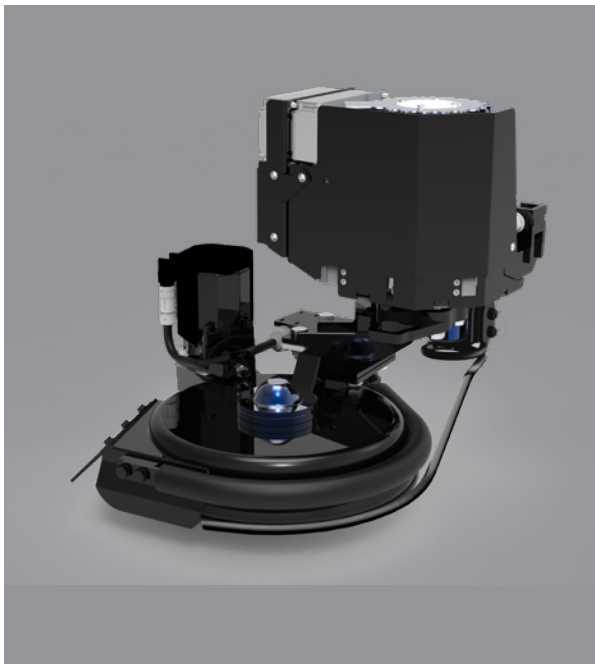
# Intervine Mowers

## Key features

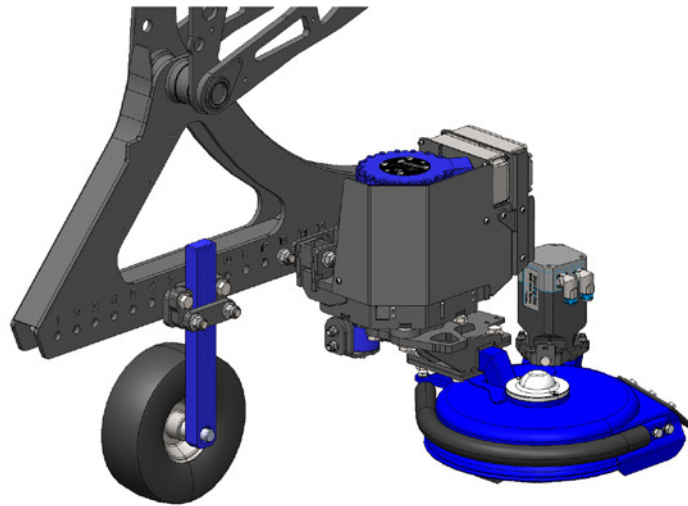
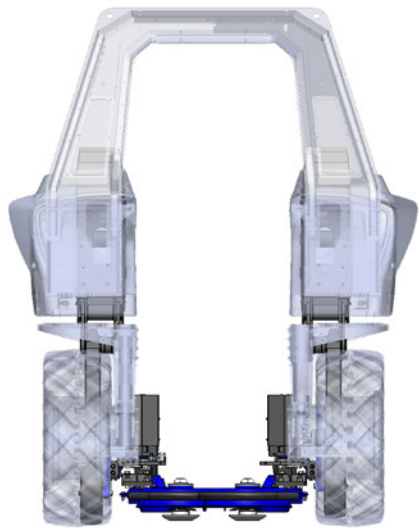
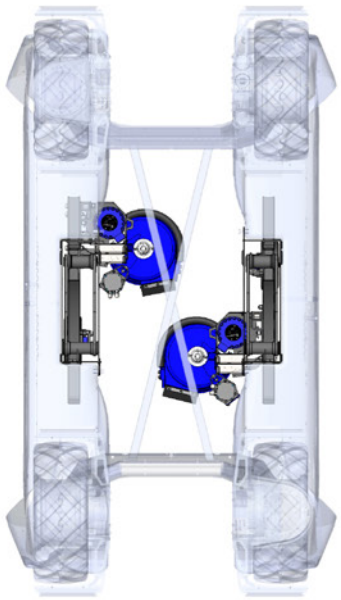
- 100 % électric
- Easy adjustment via smartphone
- Robust chassis and safety in case of contact
- Compatible with electric mowers for combined operation
- Smart tool: automatic stop in case of clogging, self-regulating robot speed in high grass density
- Maintenance-free
- Delivered with its handling cart

## Technical datas

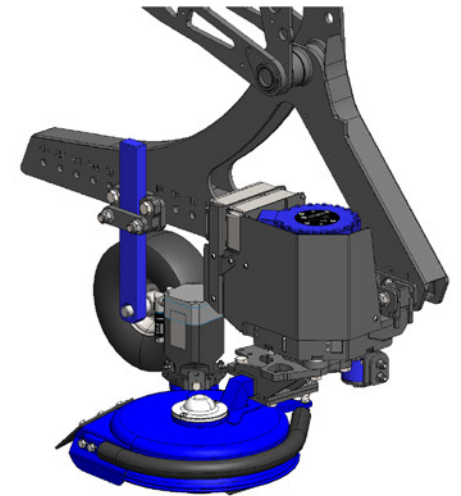
Dimensions without the electric intervene	532 mm x 542 mm x 338 mm
Drive system	Brushless electric motor
Weight without the electric intervene	36.5 kg
Mounting	Exclusively on VitiBot's electric intervene, replacing the blades
Cutting diameter	400 mm
Rotation speed	3200 tr/min
Cutting height adjustment	Minimum 60 mm, adjustable via the tool-holder boom (fixed or floating mode with depth control wheels)
Mowing width under the row	760 mm
Sensor adjustment	Via smartphone
Working speed	Up to 6 km/h, with automatic speed regulation in high grass density
Ground contact safety	Protective dome under the rotor to shield the blades in case of contact



## Possible tools combinations



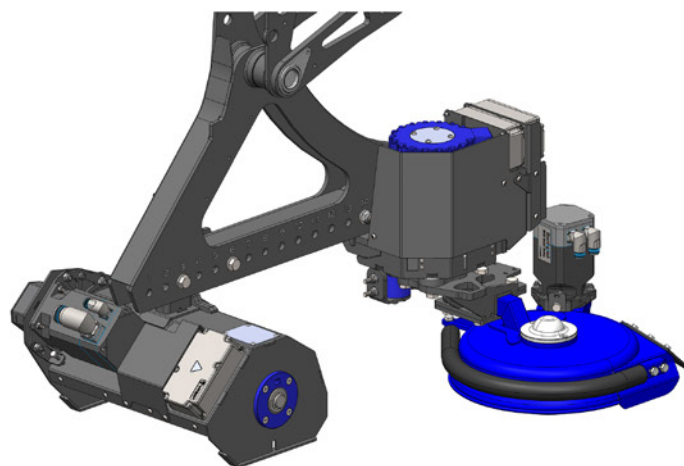
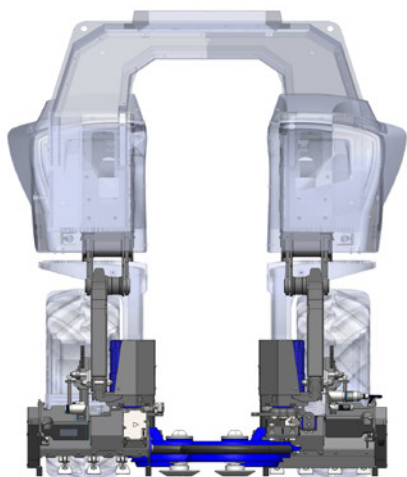
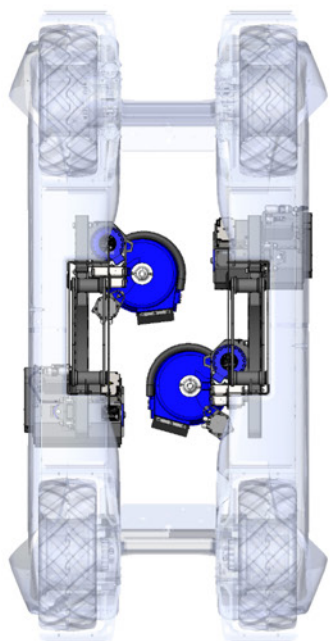
Perche droite



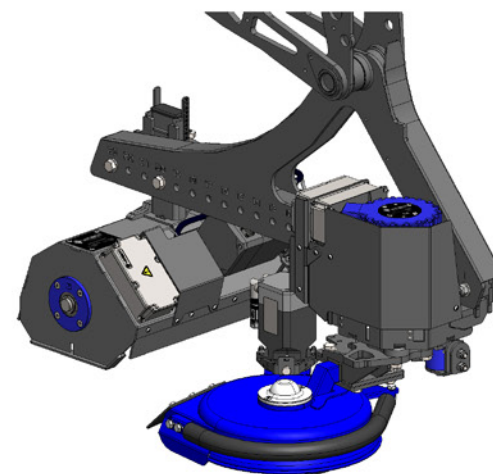
Perche gauche

With depth control wheels

# Intervine Mowers



Perche droite



Perche gauche

With electric mowers



# Electric mowers

## FOR THE REGULAR MAINTENANCE OF YOUR INTER-ROWS.

The electric mower, fully designed by VitiBot, offers a simple and efficient solution for maintaining the grassy area of your plots.

Its robust design, equipped with spoon hammers, ensures a precise and flawless cut.

Compact and versatile, it integrates easily with other equipment such as electric intervine blades and intervine mowers.

With an intuitive smartphone interface, adjustments can be made in the blink of an eye. In case of clogging, the robot adjusts its speed, allowing the hammers to regain optimal rotation for uninterrupted operation.

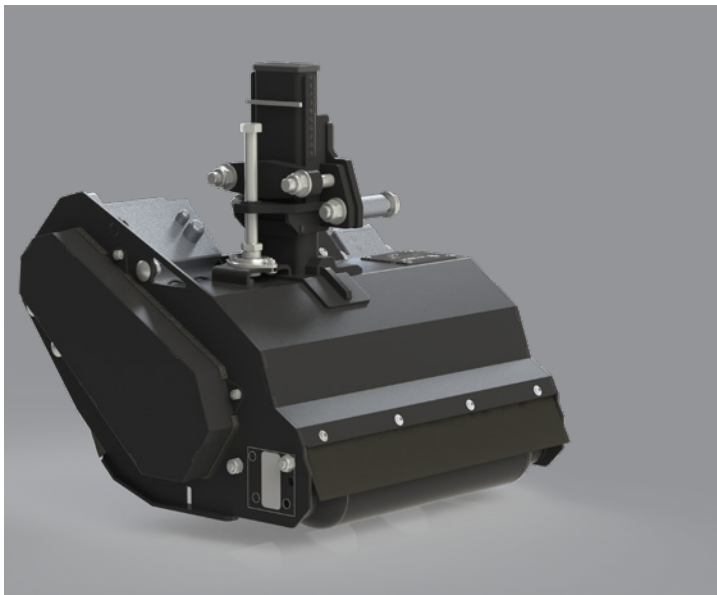
# Electric mowers

## Key features

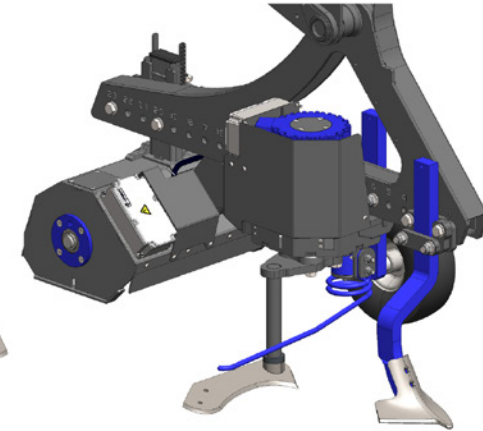
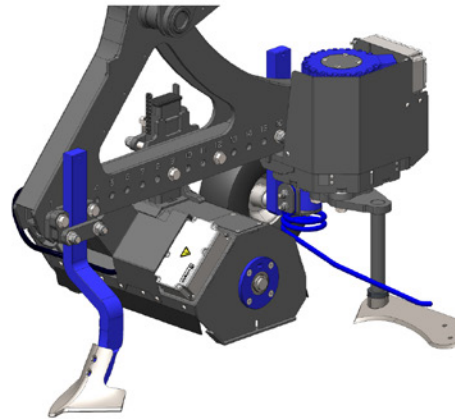
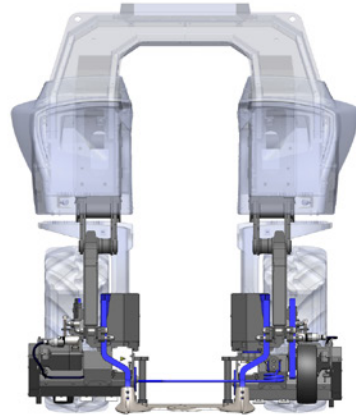
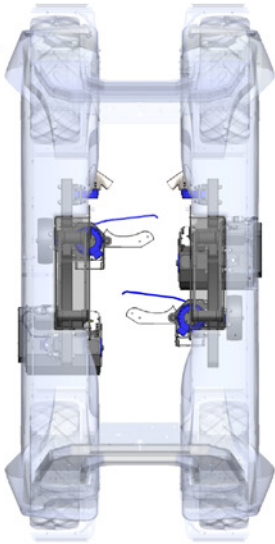
- 100% electric transmission
- Easy adjustments via smartphone
- Robust chassis
- Compatible with electric intervene mowers or intervene weeders for combined operation
- Smart tool: automatic stop in case of clogging, self-regulating robot speed in high grass density
- Delivered with its handling cart for easy assembly/disassembly of the tool

## Technical datas

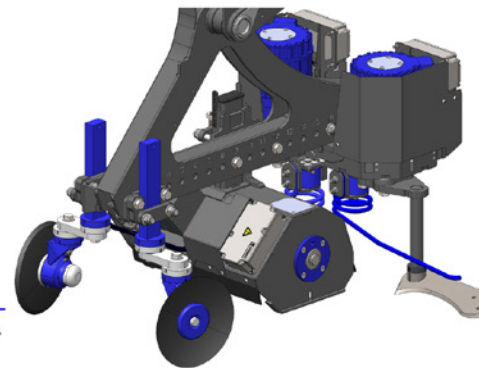
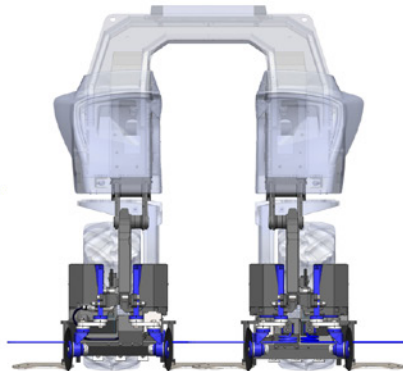
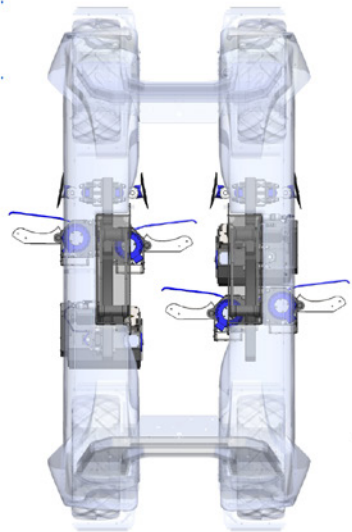
Overall dimensions	(L) 434 mm x (l) 553 mm (H) 508 mm
Drive system	Brushless electric motor
Cutting width	50 cm
Number of hammers	16 spoon hammers
Rotation speed	2200 tr/min
Working speed	Up to 6 km/h, with automatic speed regulation in high grass density
Cutting height adjustment	Maximum stroke of 130 mm. Use of the depth control wheel on the tool-holder boom is recommended.
Weight	60 kg



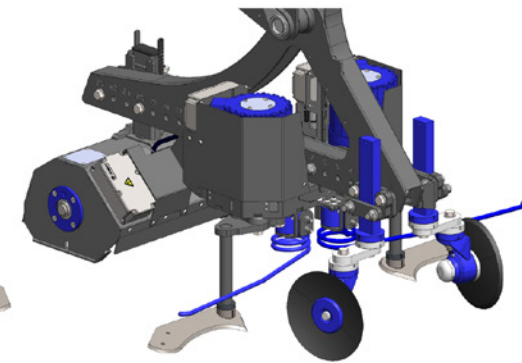
## Possible tools combinations



With electric intervinnes and  
opening tools



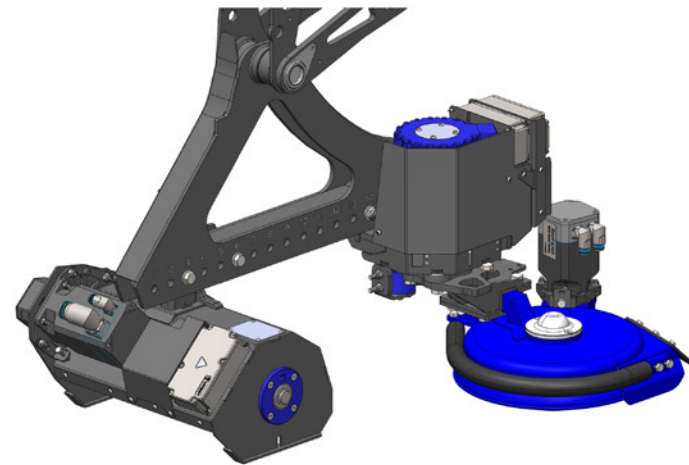
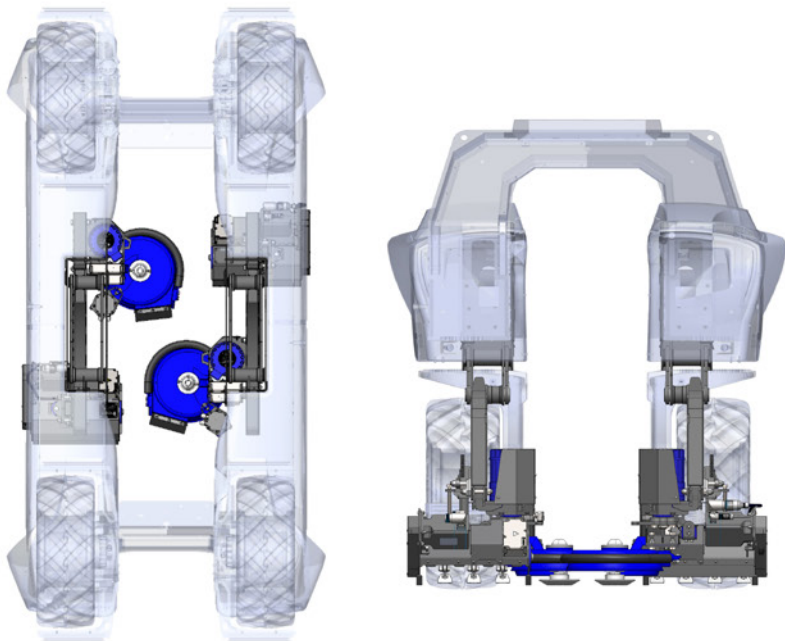
Perche droite



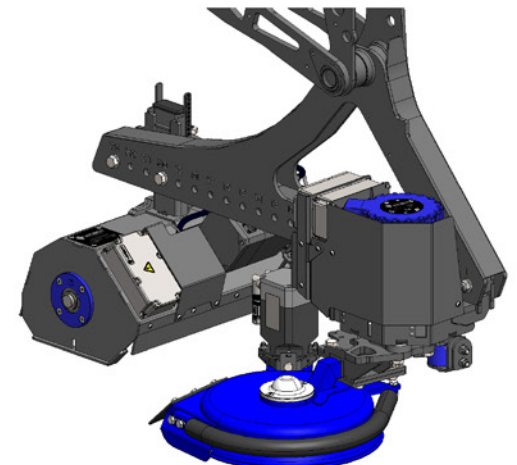
Perche gauche

With 4 electric intervinnes and  
opening tools

# Electric mowers



Perche droite



Perche gauche

With intervene mowers



## Mowers with satellites

### A COMPLETE AND OPTIMAL MOWING SOLUTION.

The mowers with satellites ensures efficient mowing between the rows.

It features two blade holders, each equipped with two knives for the central part, as well as satellites fitted with knives or wires, guaranteeing a thorough and uniform cut.

Compatible with both of our robot models, this mower will be your everyday ally.

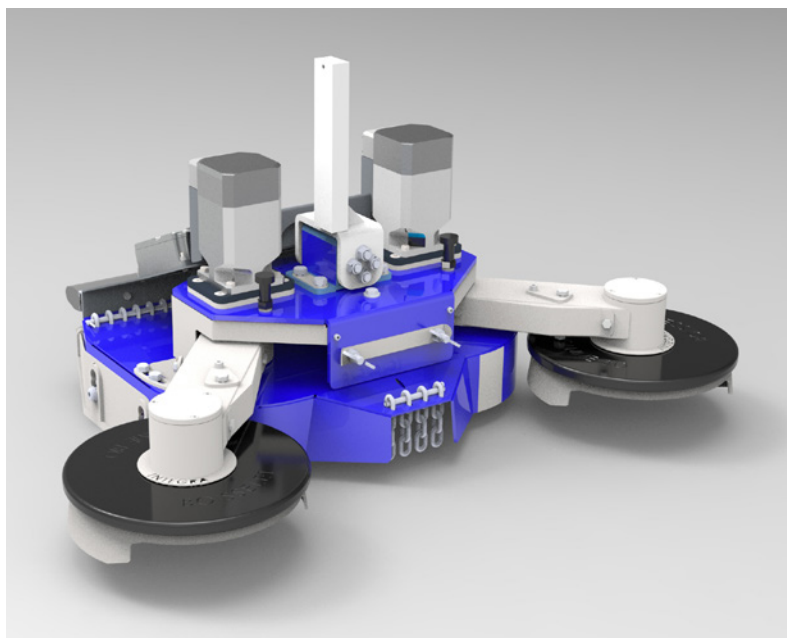


# Mowers with satellites

## Key features

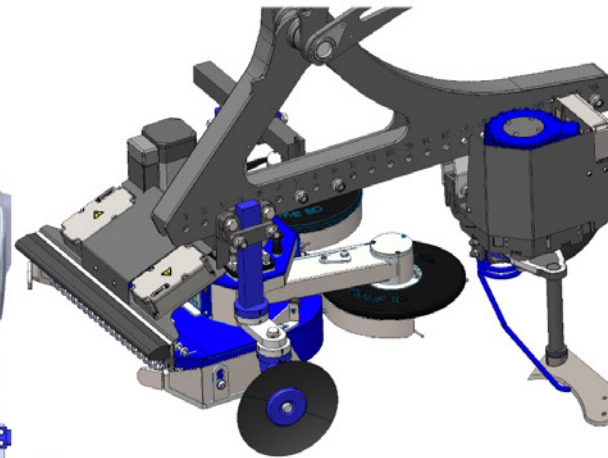
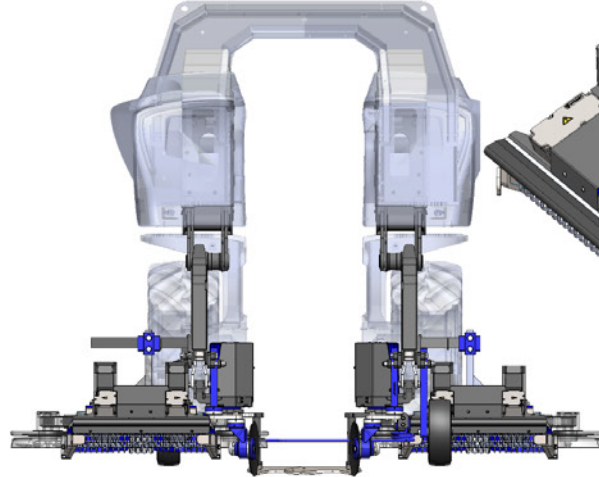
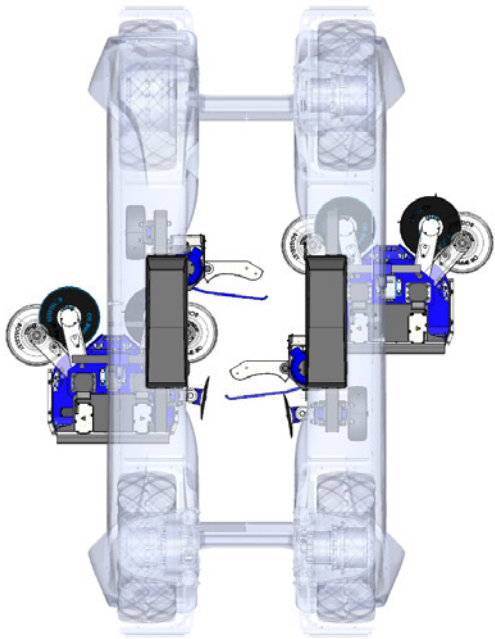
- Transmission 100 % électric
- Pivoting mower with shock absorption
- Retractable satellites that pose no risk to the vines
- Easily adjustable satellite stiffness
- Easy adjustments via smartphone
- Robust chassis
- Work can be combined with electric intervine blades simultaneously

## Technical datas

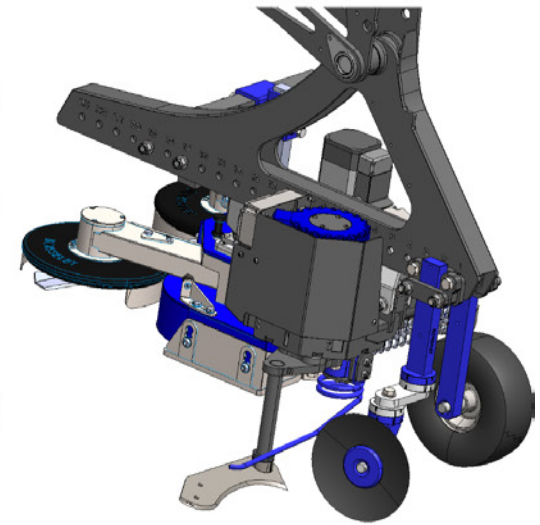


Total mower length	800 mm	
Mowing width	Satellites folded : 7200 mm Satellites unfolded : 1155 mm	
Satellite cutting poles	Ø 315 mm, 2 loose blades	
Weight	110 kg	
Rotation speed	adjustable, ≤ 3000 rpm	
Working speed	Up to 6 km/h.	
Cutting height adjustment	90 mm	
Mowing height Work with electric intervine	40 - 130 mm	
Compatible inter-row width inter-row mowing, row weeding	BKS	1.4 - 2.7 m
	BKL	1.5 - 3.0 m

## Possible tools combinations



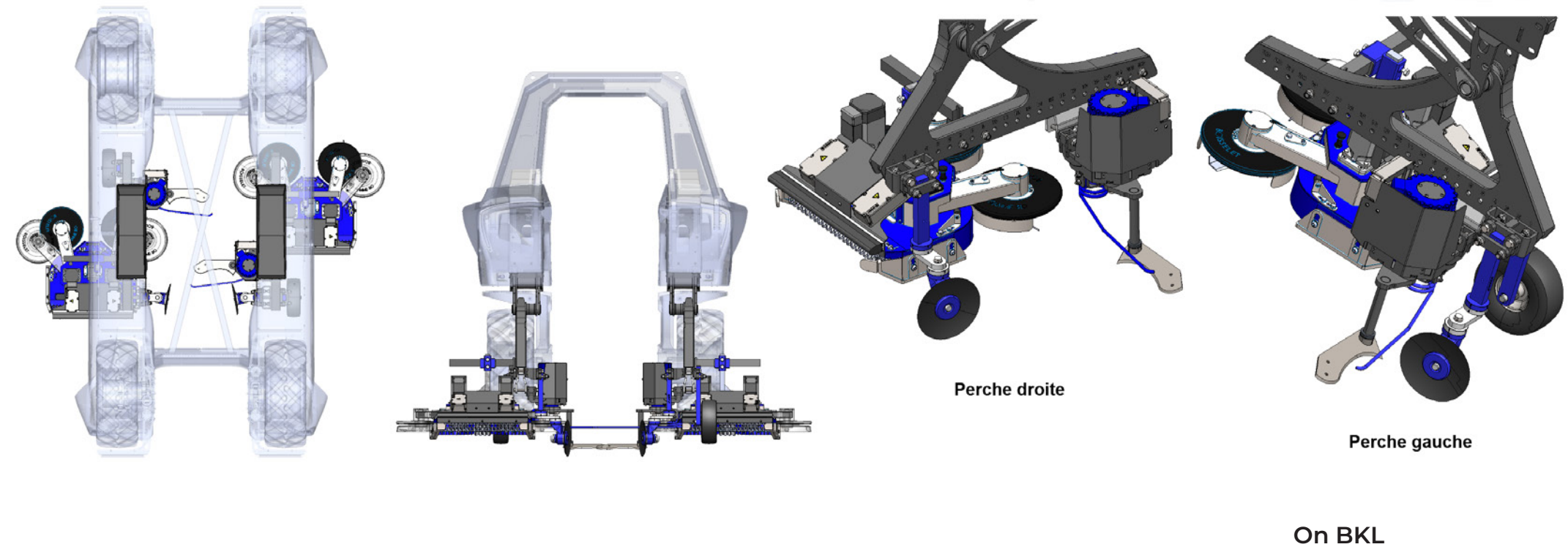
Perche droite



Perche gauche

On BKS

# Mowers with satellites





# Trimmer

## THE ART OF TRIMMING THE VINE

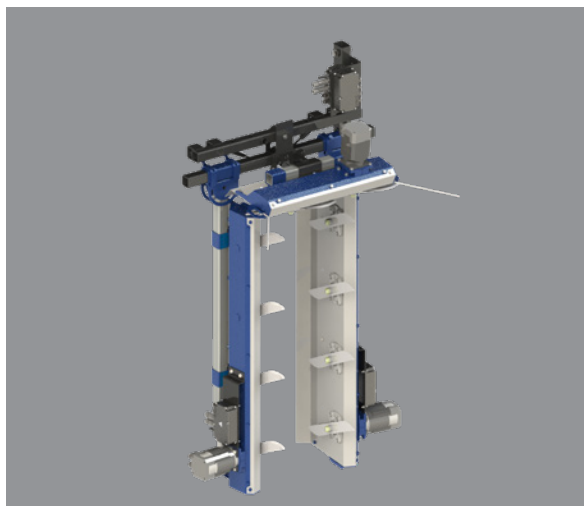
VitiBot's 100% electric trimmer, inspired by the Provitis ST120, brings remarkable versatility to Bakus' green work operations.

Robust and reliable, it ensures a precise and safe cut, meeting the demands of modern vineyards.

Designed exclusively for mounting on the VitiBot mast tool holder as a replacement of the tool holder poles, it enhances operational flexibility.

For easier handling, optional drop-off trolleys allow a single person to mount and dismount the trimmer, making its use even more convenient and efficient.

# Trimmer



## Key features

- 100 % électric
- Range of 5 trimmers adapted to different vineyards
- Blades oriented toward the vegetation to prevent recutting and rearward projections
- Adjustable cutting width depending on the model
- Flat transmission belts, tension-free and maintenance-free
- Quick access to wear parts
- Stainless steel sheet metal and aluminum components
- Pendulum mode can be locked
- Smart tool: automatic stop in case of clogging, self-regulating robot speed in dense grass
- Easily mounted and dismantled with its drop-off trolleys.

## Technical datas

TRIMMER BAKUS	3 KNIFES MODEL S		3 KNIFES MODEL L		4 KNIFES MODEL S		4 KNIFES MODEL L		5 KNIFES MODEL L	
Weight	152 kg		161 kg		167 kg		170 kg		184 kg	
Length of lateral cutting bar	1255 mm				1445 mm				1775 mm	
Width of top trimmer cutting	785 mm									
Length of knives	455 mm									
Height of trimming	1200 / 1500 mm				1500 / 1750 mm		1450 / 1980 mm		1875 / 1980 mm	
Min. trimming width	267 mm									
Max. trimming width (vertical panel)	550 mm		714 mm		550 mm		714 mm		714 mm	
Max. blade rotation speed	2000 tr/min									
Number of trimmers	Double blades								Double blades with deflector	
Max. tilt	10 %		10 %		10 %		10 %		10 %	
Working speed	Up to 6km/h									



# Tires

## **TIRES FOR ALL CONDITIONS**

Bakus comes standard with Michelin MultiBib tires, highly effective on all types of terrain.

Two optional tire types are available:

- Trelleborg Pneutrack series for greater traction in challenging conditions.
- Galaxy Pro series for working on delicate and sensitive soils.

# Tires

## Technical datas



**MICHELIN MULTIBIB 320/65 R16**

Dimensions	320/65 R16
Pressure	0.7 à 1.0 bar (10 - 14 psi)

### Michelin Multibib

One of the key features of the Michelin MultiBib is its width, which is generally larger than that of competing tires with the same diameter.

It is also an Ultraflex low-pressure tire, which increases its contact surface.

With only 0.9 bar of pressure, the contact surface will be larger, and soil compaction will be reduced.



**TRELLEBORG PNEUTRAC 280/70 R18**

280/70 R18
0.6 à 0.8 bar (8 - 11 psi)

### Trelleborg Pneutrac

The Trelleborg Pneutrac is a tire with more sophisticated, notched sidewalls, designed to provide a very large footprint.

In this way, instead of having 3, it has 4 lugs in contact with the ground, which increases traction by about 10%.

It is also a very low-pressure tire, with pressure around 0.2 bar, significantly reducing soil compaction.

Its stability in turns and on slopes is excellent, thanks to reinforcements in the sidewalls.

Its traction can be compared to that of a tracked vehicle, with the added benefit of air inside, which helps further reduce compaction..



**GALAXY PRO R3+**

280/70 R16
0.8 à 1.0 bar (11 - 14 psi)

### Galaxy Garden Pro

These “Reduced footprint” tires complement the optional tire set of the Bakus.

The specific tread of this tire provides unmatched protection on sensitive and fragile soils.

The tire's tread design prevents stones or pebbles from getting stuck in the sole, thus avoiding damage to the bumpers of the Bakus.

Radial construction. Efficient self-cleaning.



# Chargers

## ACCORDING TO YOUR NEEDS

A range of chargers for all your requirements.

Available in single-phase or three-phase versions, the VitiBot charger range meets the needs and usage of your Bakus robot.

# Chargers

## Information and advices

- Single-phase chargers (3 kW and 6 kW): Charging time between 9 and 18 hours, ideal for occasional use.
- Standard three-phase charger (9 kW): Charging time of approximately 8 hours – suitable for daily daytime use with overnight recharging.
- Fast three-phase charger (27 kW): Charging time of approximately 2.5 hours – ideal for intensive use.
- Before installation, consult a professional to assess your electrical setup

## Installation installation

### ■ Charger 9 kW - ECR-9K model

- 16A three-phase circuit breaker, curve D (e.g., Schneider Electric A9P34716 or equivalent)
- 30mA type A residual current device (RCD) with a minimum of 25A (to be confirmed based on your installation, e.g., Schneider Electric A9Z21425 or equivalent)
- 3P+N+T 16A socket (e.g., Legrand 5 551 59 or equivalent)

### ■ Charger 27 kW - Model ECR-27K

- 40A minimum three-phase circuit breaker, curve D (e.g., Schneider Electric A9P34740 or equivalent)
- 30mA type A residual current device (RCD) with a minimum of 40A (to be confirmed based on your installation, e.g., Schneider Electric A9Z21440 or equivalent)
- 3P+N+T 63A socket (Ex : Legrand 5 555 59 or equivalent)

## Technical datas



**CHARGER 3KW**

Power supply	1 * 13.5A
Full charging time	18h
Wall socket standard	CEE 7/7, 230V 16A
Reference	M-BAT0003



**CHARGER 9KW**

Power supply	3 * 13.0A
Full charging time	8h
Wall socket standard	voir pré-requis installation
Reference	M-BAT0004



**CHARGER 6KW**

Power supply	1 * 27.0A
Full charging time	9h
Wall socket standard	IEC 60309 2P+E, 6h, 230V 32A
Reference	M-BAT0006



**CHARGER 27KW**

Power supply	3 * 40.0A
Full charging time	2h30
Wall socket standard	voir pré-requis installation
Reference	M-BAT0005



VitiBot SAS with capital of 3 923 022.24€ | Siret : 82426738900024 | VAT N° : FR 94 824 267 389

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