

AUTONOMOUS APPLE PICKER

COMPONENTS



ADVANTAGES



Autonomous operation



Gentle picking of apples avoiding damaging the fruit or the tree



Fruit ripeness detection



Significantly reduced labor requirements



Cost savings and flexibility

SPECIFICATION

Deck material	Aluminum
Number of hands	3 or 6
Harvesting speed	5000 pcs/h
Max height of fruits	3200 mm
Min height of fruits	650 mm
Sound power level	60 dB



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FOR VINEYARDS AND ORCHARDS

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AUTONOMOUS GRAPE PICKER

COMPONENTS



Autonomous operation



Significantly reduced labor requirements



Gently picking grapes to avoid damaging the fruit or the vine



Cost savings and flexibility



Grape ripeness detection



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BLOSSOM THINNER

FOR SELECTIVELY REMOVING EXCESS FLOWERS IN ORCHARDS

COMPONENTS



ADVANTAGES



Autonomous operation



Adjustable intensity
of the thinning process



Efficient and uniform
reduction of flowers



Larger and sweeter
fruits production

DRUM MULCHER

Mulching branches and grass in passages

COMPONENTS



ADVANTAGES

- ✓ No need to balance the shaft or hammers
- ✓ Possibility of replacing hammers in the field
- ✓ Adjustable of drum shaft speed (from 1000 to 2000 rpm)
- ✓ Innovative multi-section shaft (noise and vibration reduction)
- ✓ Frontal arrangement of the equipment (branches don't get squeezed into ground by the machine)

SPECIFICATION

Working width	1600 mm
Cutting height	25-60 mm
No. hammers	16 pcs
Speed of rotation	1500 - 2000 rpm, selectable
Sound power level	70 dB
Deck material	steel
Motor type	brushless (BLDC)
Operation area	up to 5 ha/day
Operation speed	up to 5 km/h

FERTILIZER

FOR SPREADING GRANULES
OR PELLETS IN PASSAGES
AND ROOT AREAS

COMPONENTS



ADVANTAGES



Autonomous work without an operator



Electronic control system of the spreading process



Flexibility of the amount and distribution of fertilizer



Adjustable fertilizer usage rate



Distribution of granules or pellets in rows



Regulation of the spread pattern based on desired results

SPECIFICATION

Movement speed	1 km/h to 4 km/h
The built-in protection mechanism	
Tank volume	1100 liters
Spreading width	Up to 3.1m
Working mode for Granulized fertilizers	250 - 800 Kg/Ha
Working mode for Pelletized fertilizers	500 - 2000 Kg/Ha

HORIZONTAL VERTICAL CUTTER

FOR SHAPING THE VERTICAL AND HORIZONTAL SURFACES IN ORCHARDS AND VINEYARDS

COMPONENTS



ADVANTAGES



Autonomous operation according to the set parameters



Perform both vertical and horizontal operations simultaneously



Flexible selection of the desired cutting height, max 4200 mm, min 1200 mm



Adjustable cutting width and cutting inclination



Automatic detection of pillars and ability to avoid collisions



Adjustable speed of the cutting knives



Cutting various types of objects, including thick branches

SPECIFICATION

Max height of trees	4200 mm
Min height of trees	1200 mm
N of saws in vertical deck	5
N of saws in Horizontal deck	3
Blade rotation speed	1500 - 2500 rpm
Motor type	brushless (BLDC)

LAWN MOWER

FOR CUTTING GRASS AND SMALL BRANCHES IN PASSAGES

COMPONENTS



ADVANTAGES



Capability of cutting small branches



Adjustable knives rotation speed and grass length after cutting



Detection of obstacles and avoiding damage



Frontal arrangement of the equipment (grass doesn't get squeezed into the ground by the machine)

SPECIFICATION

Deck material	steel
Motor type	brushless (BLDC)
Number of Blades	5pcs
Cutting width	1500 mm
Cutting height	25-80 mm
Deck material	steel
Speed of rotating	1800 - 2500 rpm
Sound power level	60 dB

LEAF REMOVER

FOR REMOVING EXCESSIVE
LEAVES FROM THE PLANTS
IN VINEYARDS

COMPONENTS



ADVANTAGES



Autonomous operation



Ability to specify the operation
distance from the plants



Efficient removal of excess
leaves



Effective cutting of vegetation that
extends the specified vertical boundary
Efficient removal of excess leaves



Achieving optimal sunlight exposure for
grape development



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NEEDLE HARROW

FOR SOIL CULTIVATION IN PASSAGES

COMPONENTS



ADVANTAGES



Improved air and water penetration



Prevention of soil integrity or functionality damage



A flat surface after operation and suppressed grass growth



Soil cultivation in various agricultural settings



Prevention of damage to the instrument



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PRE-PRUNNER

FOR CUTTING VERTICAL BRANCHES IN VINEYARDS

COMPONENTS



ADVANTAGES



Autonomous operation without requiring manual control



Selectable parameters of branches cutting



Simultaneous pruning of branches on both sides of grapevines



Significantly reduced labor requirements



Prevention of ropes and pillars damage



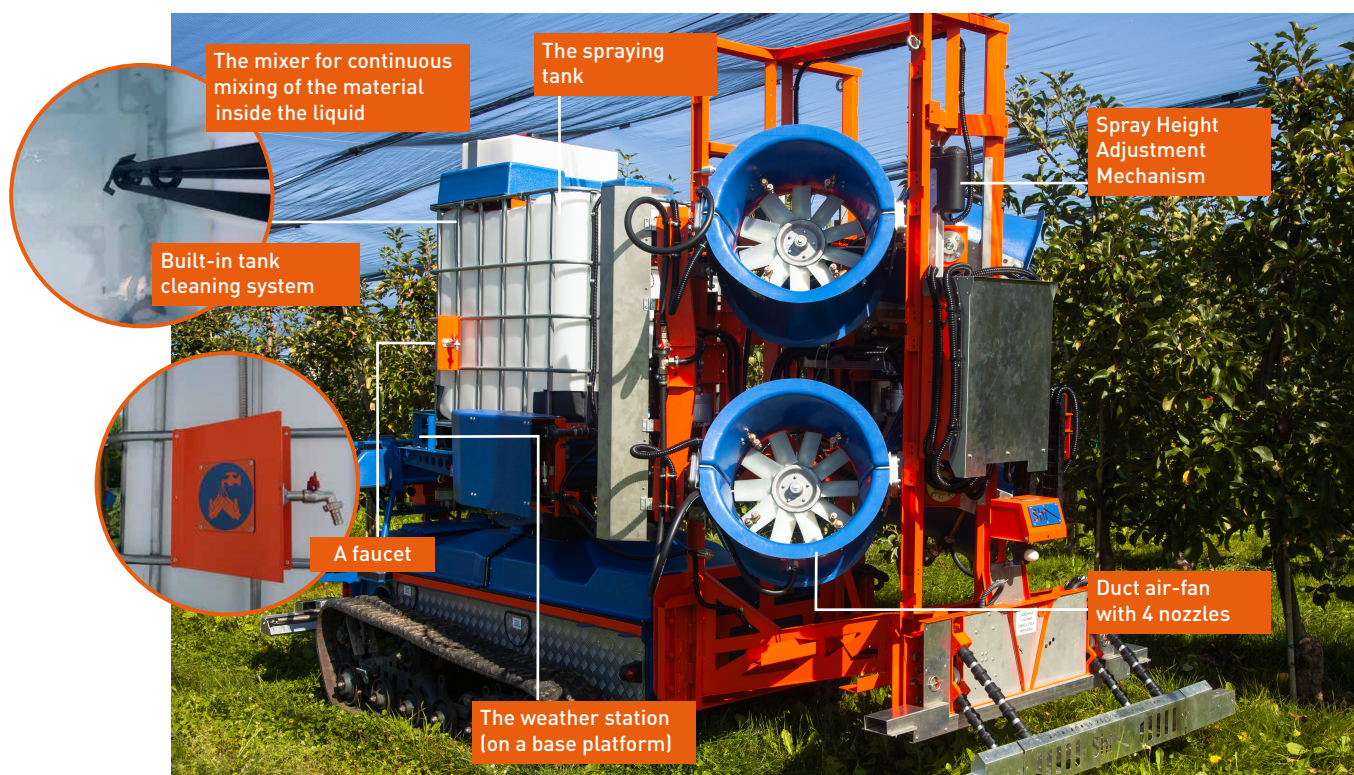
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SPRAYER FOR VINEYARDS AND ORCHARDS

COMPONENTS



ADVANTAGES



Autonomous work without an operator



Adjustable swinging angle and fan elevation (for trees up to 4 meters)



High-precision spraying, independent of wind and other external factors



Real time weather-based spray scheduling (the weather station is installed)



Adjustable liquid consumption rate per hectare (minimum 150 liters per hectare)



Spraying quality does not depend on the pressure of sprinkles or the speed of the fan



The ability to work on slopes up to 42 degrees (due to the adjustable cargo platform)

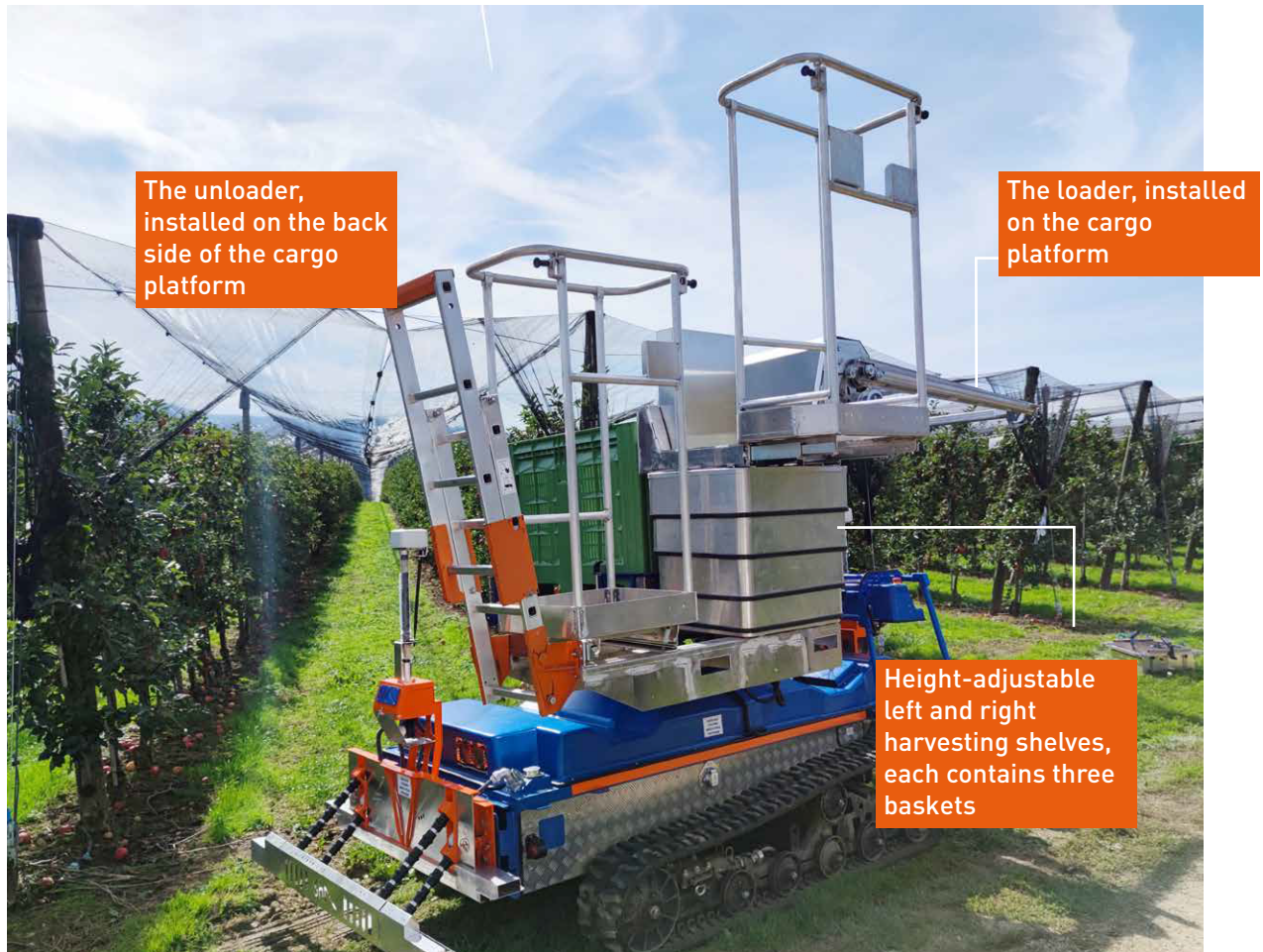
SPECIFICATION

Movement speed	2-4 km/h
Duct diameter	450 mm
Speed of fan rotating	600..1300 rpm, selectable
Material consumption	50..300 l/Ha, adjustable
Diameter of spraying spot	1500 mm
Air speed on the exit	2.3 m/sec
Airflow	4 m2/sec
Sound power level	50 dB
Motor type	brushless (BLDC)

THE MANUAL HARVESTING SET

FOR FRUIT HARVESTING

COMPONENTS



ADVANTAGES



Easy installation of an empty harvesting basket



Automatic unloading of harvest to the harvesting basket



Adjustable extension of the harvesting shelves



Four vertical levels for manual fruit collection



Convenient operation on sloped terrain requirements



No need for specialized harvesting or hail net servicing machines
No need for a forklift



Significantly reduced labor



Cost savings and flexibility



Maximum height of plantation trees 4200 mm



up to 6 (+ 2 on ground level) No. of workers on shelves



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