

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	800 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)

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 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	1400..2000 rpm, selectable
Sound power level	70 dB
Deck material	steel
Motor type	brushless (BLDC)

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



AGRICULTURAL ROBOT
FOR VINEYARDS AND ORCHARDS

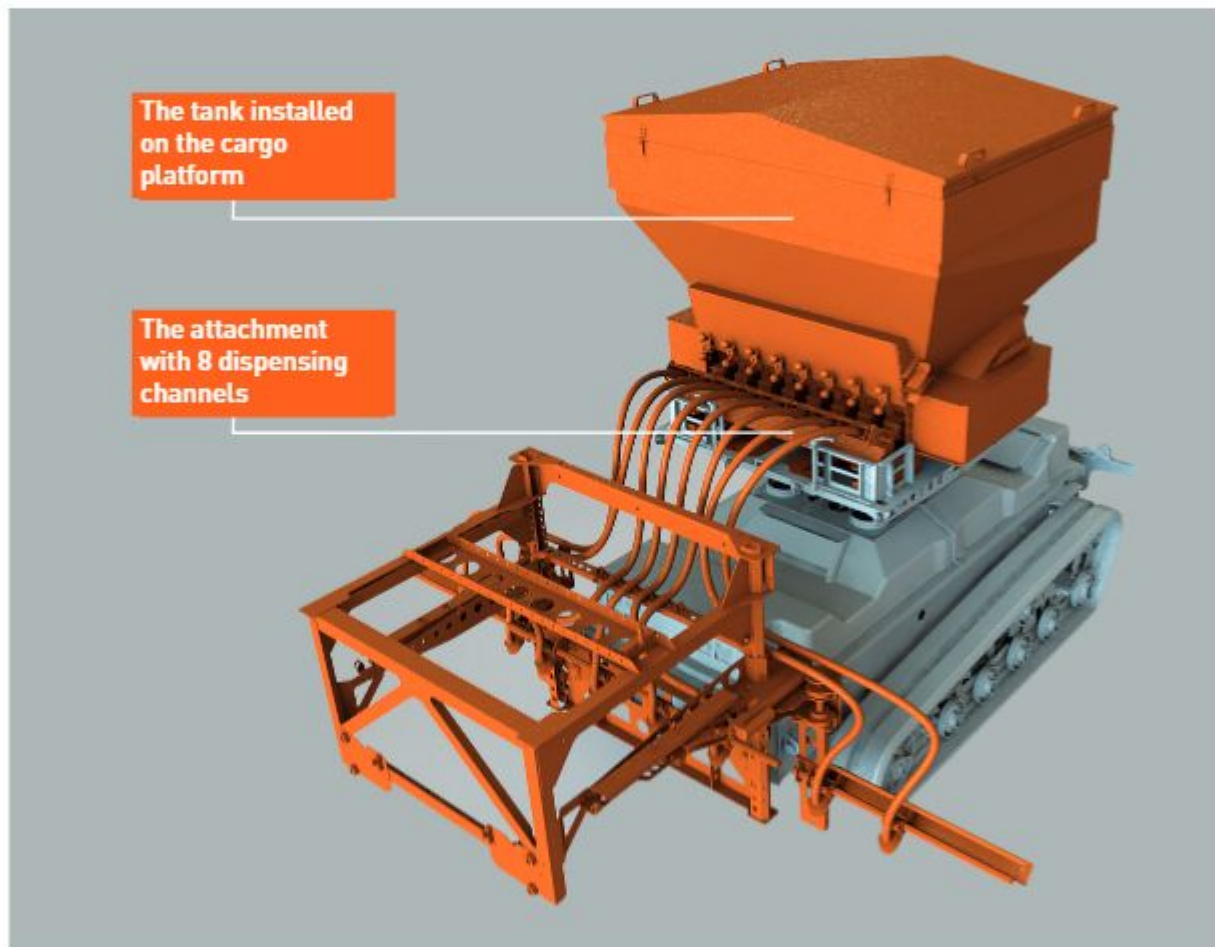
Product of PeK Automotive d.o.o.



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

Optimal fertilization

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



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

LAWN MOWER

FOR CUTTING GRASS AND SMALL BRANCHES IN PASSAGES

COMPONENTS



The elliptical knives

The collision sensors

ADVANTAGES



Capability of cutting small branches



Detection of obstacles and avoiding damage



Adjustable knives rotation speed and grass length after cutting



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



AGRICULTURAL ROBOT
FOR VINEYARDS AND ORCHARDS

Product of PeK Automotive d.o.o.



LEAF REMOVER

FOR REMOVING EXCESSIVE LEAVES FROM THE PLANTS IN VINEYARDS

COMPONENTS



ADVANTAGES



Autonomous operation



Ability to specify the operation distance from the plants



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



Achieving optimal sunlight exposure for grape fruit development



AGRICULTURAL ROBOT
FOR VINEYARDS AND ORCHARDS

Product of PeK Automotive d.o.o.



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



AGRICULTURAL ROBOT
FOR VINEYARDS AND ORCHARDS

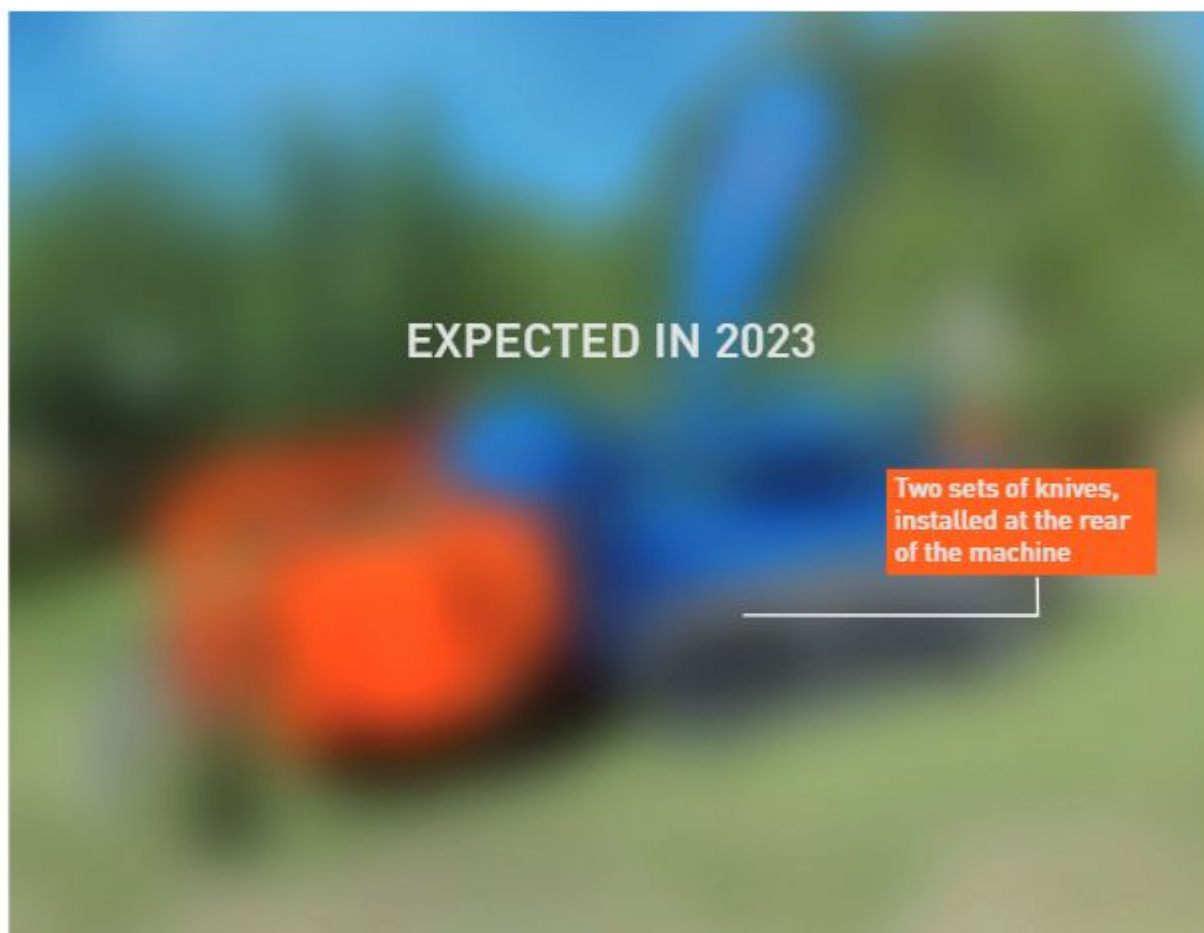
Product of PeK Automotive d.o.o.



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



AGRICULTURAL ROBOT
FOR VINEYARDS AND ORCHARDS

Product of PeK Automotive d.o.o.



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



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



Convenient operation on sloped terrain requirements



Significantly reduced labor



Cost savings and flexibility



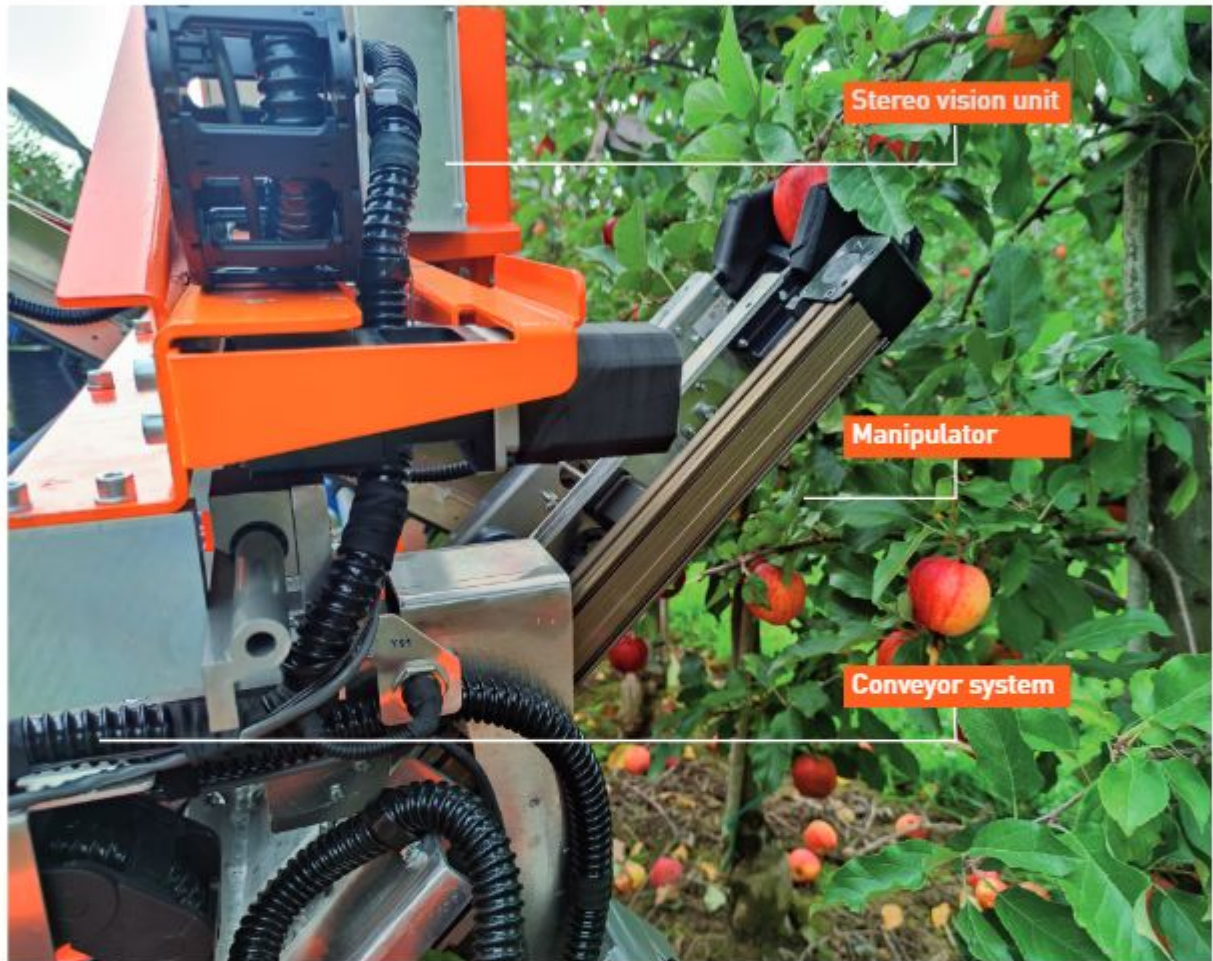
AGRICULTURAL ROBOT
FOR VINEYARDS AND ORCHARDS

Product of PeK Automotive d.o.o.



AUTONOMOUS APPLE PICKER

COMPONENTS



ADVANTAGES



Autonomous operation



Significantly reduced labor requirements



Gentle picking of apples avoiding damaging the fruit or the tree



Cost savings and flexibility



Fruit ripeness detection

AUTONOMOUS GRAPE PICKER

COMPONENTS



Autonomous operation



Significantly reduced labor requirements



Gentle picking of apples avoiding damaging the fruit or the tree



Cost savings and flexibility



Fruit ripeness detection



AGRICULTURAL ROBOT
FOR VINEYARDS AND ORCHARDS

Product of PeK Automotive d.o.o.

