

# OLIVER AGRO

INTER ROW WEEDING MACHINES



# Our technology

*Innovative aspects and efficiency*



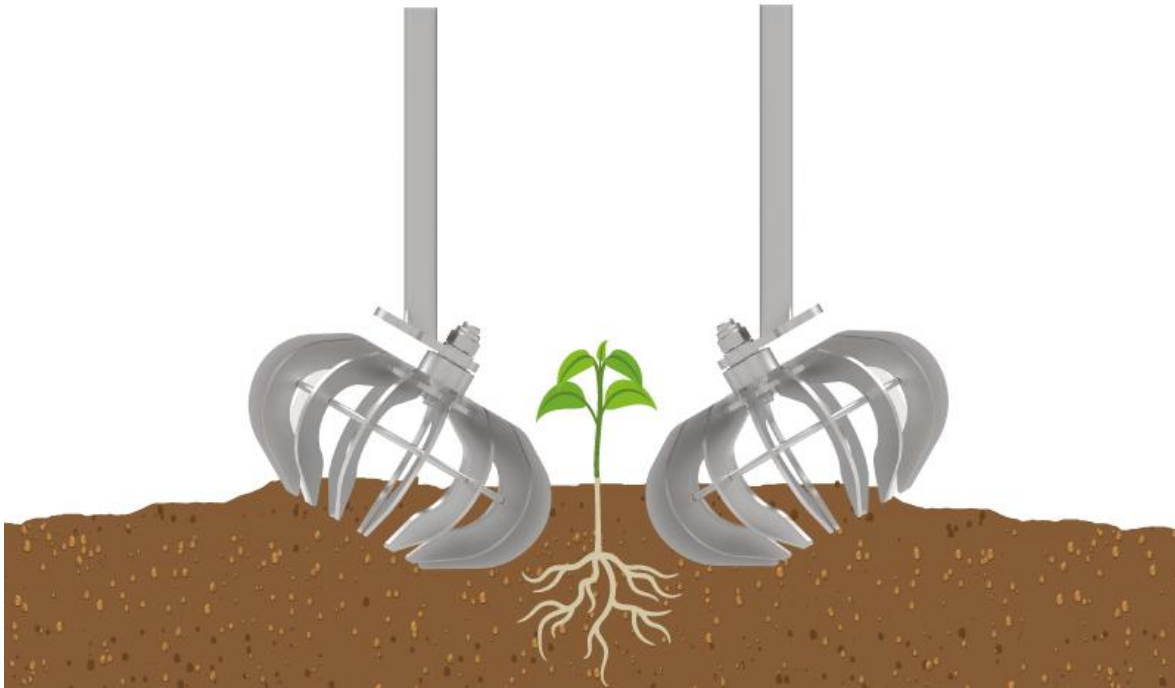
Oliver Agro was **the first company in the world** to **produce steel rotors** for weeding machines, developing further **unique models** for **long-lasting but also effective use**: Rotoblizz, Rotovert, Rotoclean, Rotodisk and Colibrì disks.



# Rotoblizz rotors



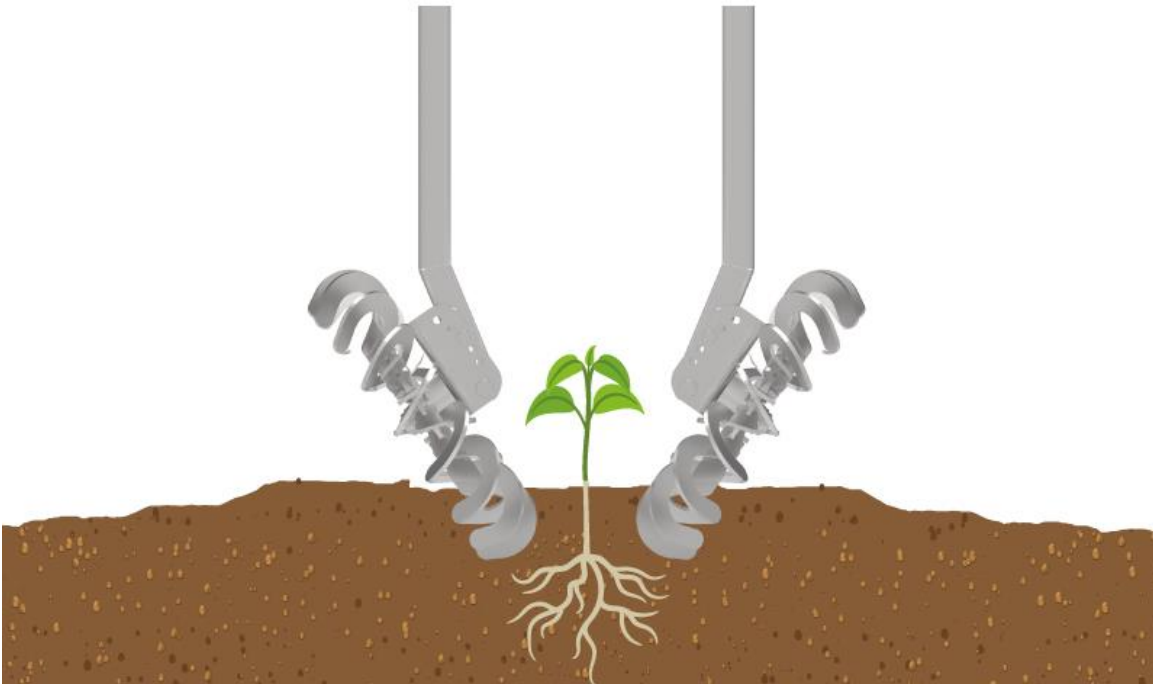
WORKING ON FLAT



- **Inter-row spacing : from 40 cm to > 60cm**
- Rotoblizz rotors work **directly on the row, at 2 cm from the plant** without damaging the roots or leaves due to their round shape.
- How do they work : rotating counter to each other at the same **depth of 3–4 cm**, they keep the plant **straight**, pushing the top of the soil towards the centre of the row and breaking it into pieces. In the meantime, the blades rotate to move weed sprouts or the weeds themselves outwards.
- They are **made of steel**. They rotate due to a **sealed bearing** and are welded with curved, hook-shaped blades with a width of 3 cm.

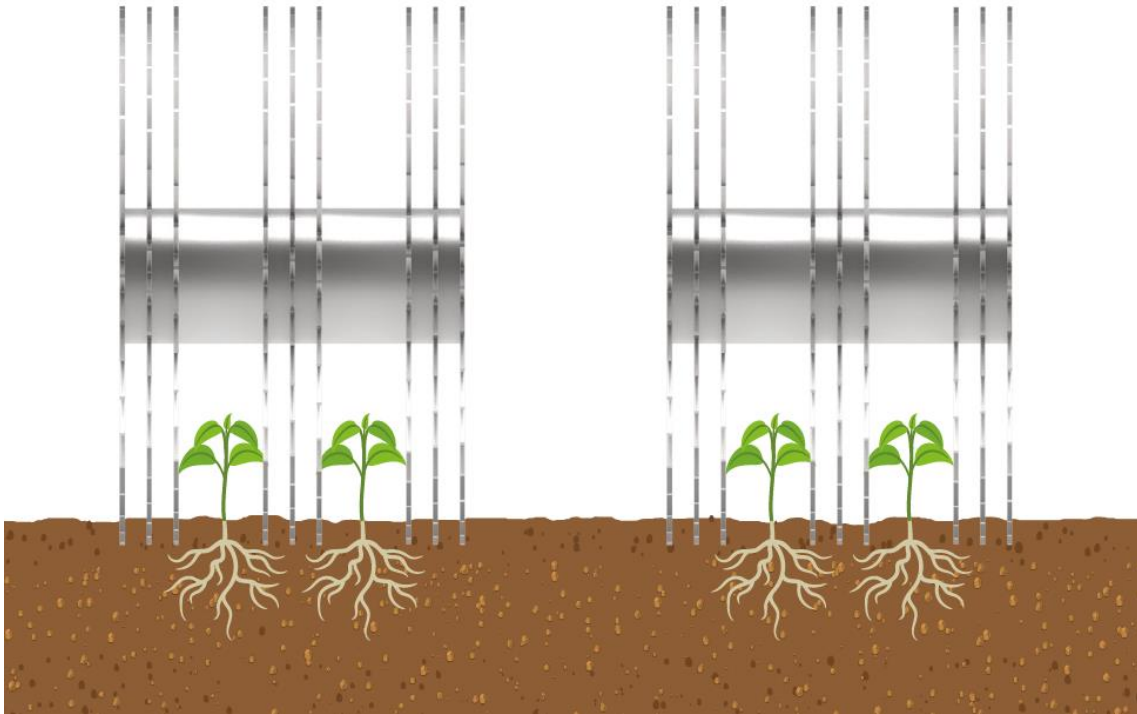
# Rotoververt rotors

WORKING ON FLAT



- **Inter-row spacing : from 13 cm to 45 cm.**
- Rotovert rotors, that is, vertical rotors, act like Rotoblizz rotors, but can be **used on narrower inter-row spaces due to their shaped profile:**
- They are **made of steel** and have an inclination that is adjustable in 5 positions from 67° to 42° towards the plant. They rotate due to a **sealed bearing** and are welded with **curved blades** with a width of 3 cm.
- **Usable working surface area from the plant : 4,5 cm-5,5 cm.**

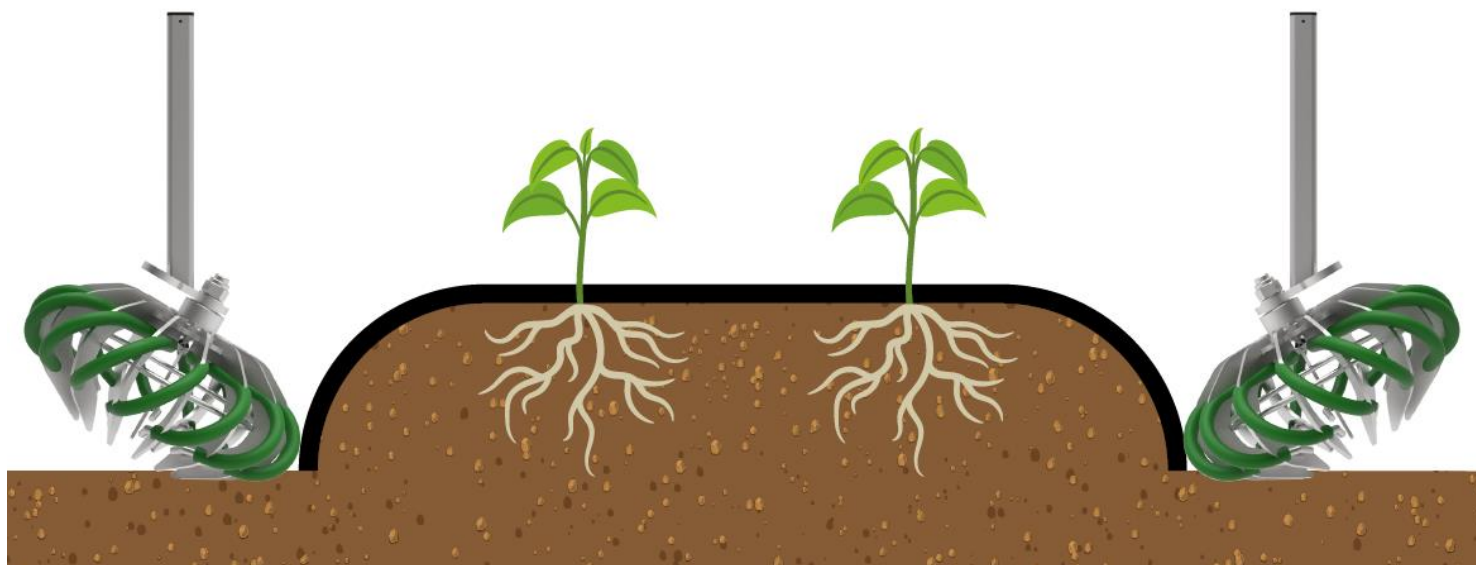
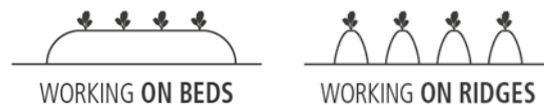
# Colibrì disks



- **Inter-row spacing** : it works in several rows at once starting from 5 cm
- The COLIBRÌ motorized disc pack weeds actively, working at a **depth of 2 cm**.  
The height is adjusted via a hydraulic piston controlled electrically via a linear potentiometer to determine the actual working depth.
- Used on fourth-range crops increases and improves production:
  1. **Earlier harvestion** because the seedlings sprout earlier than non-tilled crops.
  2. **Aeration** of the soil - is seen after the first pass.



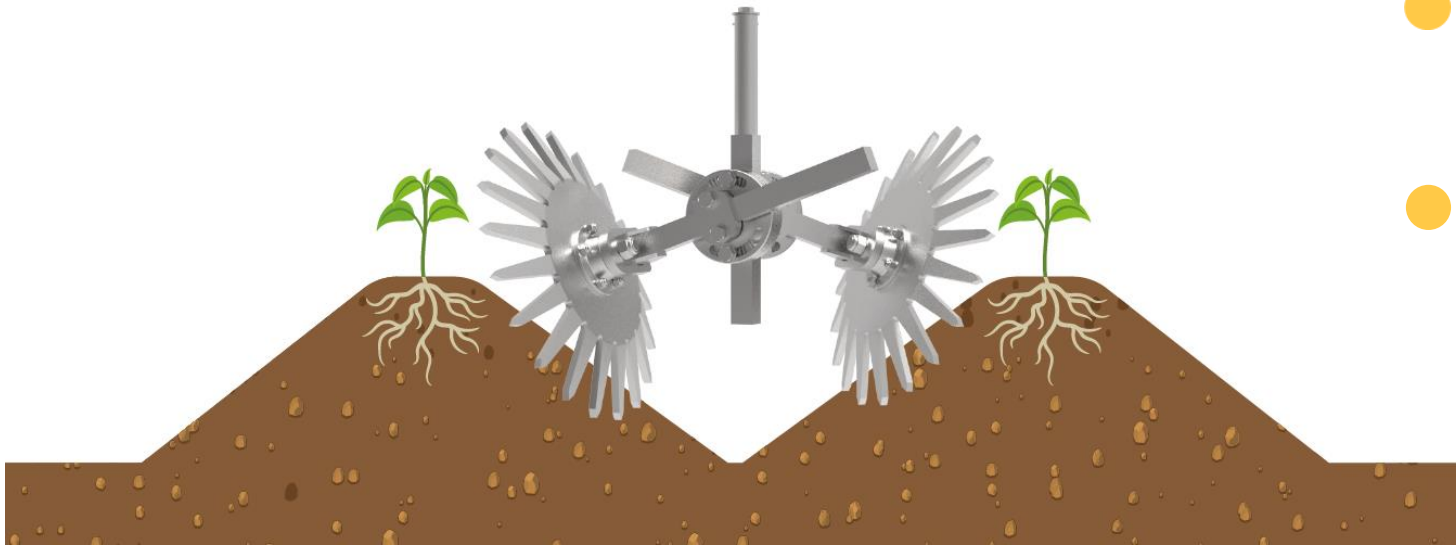
# Rotofilm rotors



- The Rotoblizz rotors have been covered with **rubber tubing** to work on the **plastic film** and **biodegradable film** near the bed **without damaging it**.
- The rounded shape of the rotor and rubber coating **prevent the film from tearing and curling**, both at the beginning of the season when it has just been laid, or later when it has deteriorated and is more delicate
- Weeds are removed via the mechanical action of the rotor, and the soil is then turned onto plastic film with a ridger or furrower.

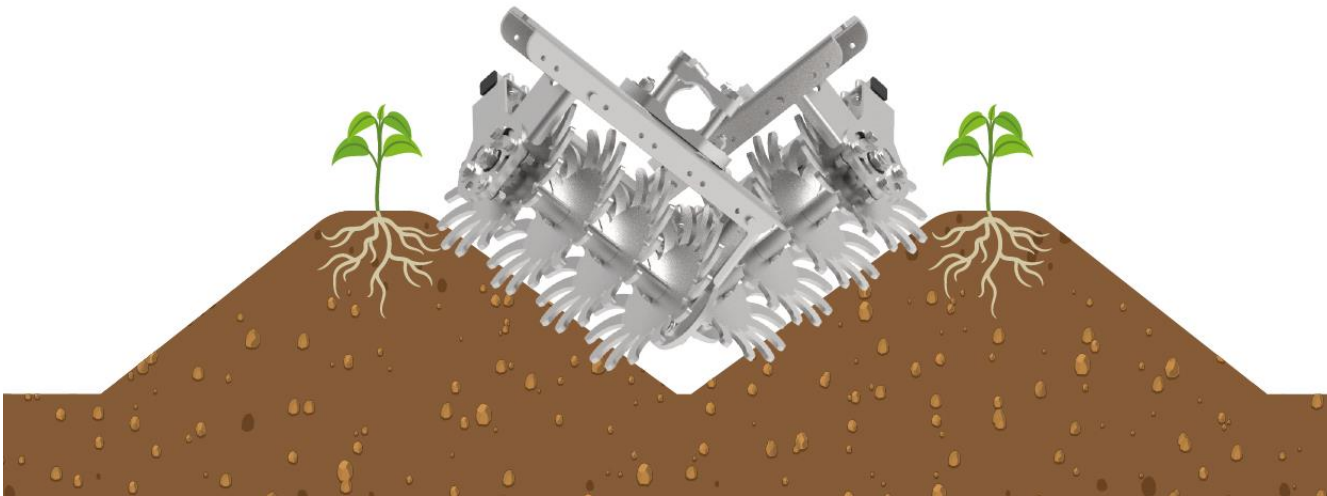
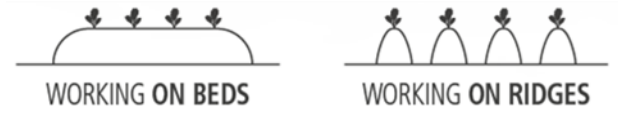


# Rotoclean disks



- ROTOCLEAN discs are designed to **loosen and work the soil** to a **depth of 2 cm** from the side of the mound and turn it over, dropping any weeds and stopping their germination.
- When in contact with the soil, the special **star-shaped disc** with **20 radial points** allows the tiller to move forward easily. Given the convexity (angle of 20°), it turns over weeds growing on the side, allowing the soil to fall and drying out the weeds.

# Rotodisk disks



- Rotodisk discs are designed to **loosen the soil** and turn it towards the upper part of the ridge. When in contact with the ground, the **special curved 15-point star shape** allows the tiller to move forward easily.
- Given the convexity (angle of  $15^\circ$ ), the soil is lifted as with a simple convex disc, with the difference that the soil is not retained and thus compacted at the sides, but is **released, mixing along the side and removing any weeds that may have formed.**



# **OUR PRECISION WEEDING MACHINES PROPOSAL**



**Rotovert TILT**



**Rotosark**



**Rotofilm**



**Rotoclean**



**Colibrì**



**Rotohemp**



**Rotovert**



**Rotodisk**



**Optyma**

# Rotosark



Rotosark weeding machine with fixed, shifting, or folding frame; modular with one or more parallelograms that work on sown or transplanted rows.

Inter-row distance: from 40 cm to > 60 cm

For crops such as: beets, garlic, corn, lettuce, tomatoes, legumes, strawberries, tobacco

# Rotohemp

NEW



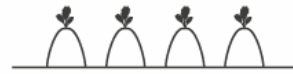
Rotosark with fixed frame, manual steering on rotating wheels with handlebar and seat, with 1 parallelogram with leaf lifter and side tilling elements.  
For crops such as: pumpkin, artichokes, hemp, and cauliflower

# *Rotofilm*

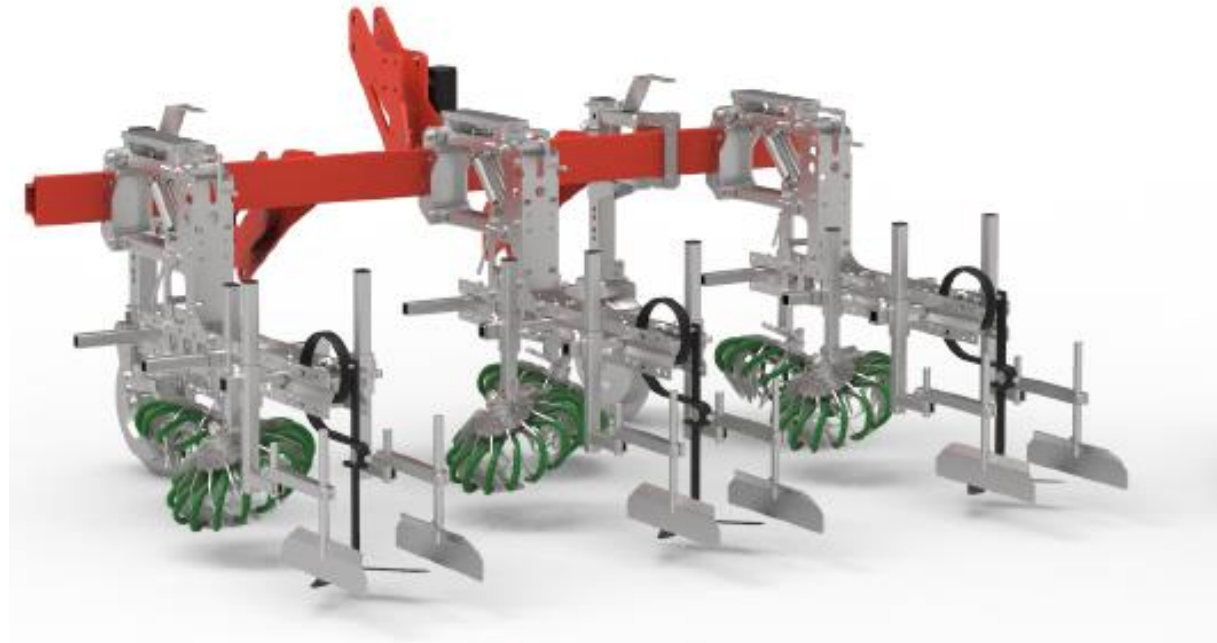
**NEW**



WORKING ON MULCHED BEDS



WORKING ON MULCHED RIDGES



## **ROTOFILM: THE WEEDING MACHINE FOR RIDGE WITH PLASTIC MULCH.**

With fixed frame, shifter with parallelograms working on the side of the mound or mulched ridge.

For crops such as : strawberries, fruit tree nursery,



# ***Rotovert***



ROTOVERT weeding machine with fixed, shifting, or folding frame; modular with one or more parallelograms that work on sown or transplanted rows.

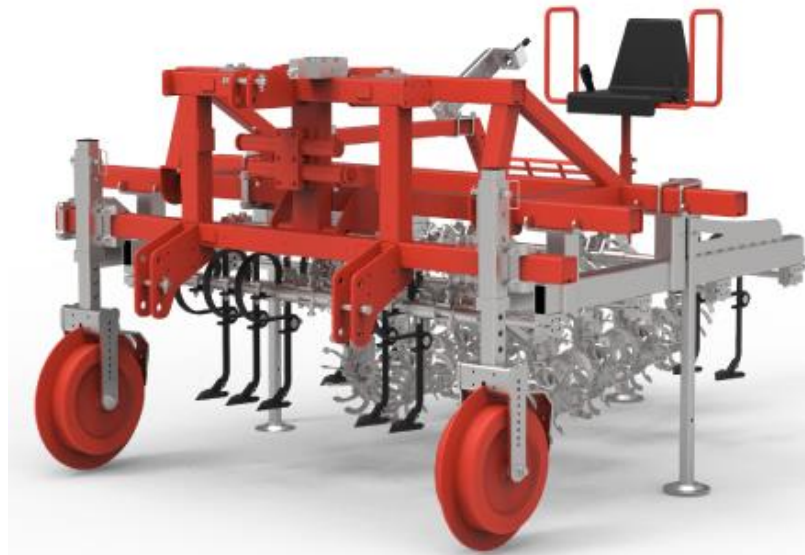
Inter-row distance: from 20 cm to 40 cm

For crops such as : onions, rice, radicchio, aromatic herbs, roots, roses

# ***Rotovert TILT***

  
WORKING ON FLAT

  
WORKING ON BEDS



Rotovert TILT weeding machine with shifting frame; modular with variable-load 'tilting' parallelograms that work on sown or transplanted rows.  
Inter-row distance: from 13 cm to 20 cm



# ***Rotoclean***



ROTOCLEAN weeding machine with fixed frame; modular with multiple inter-row parallelograms with support wheel to work at the base of the mound or ridge.

Inter-row distance: from 60 cm to 70 cm

For crops such on ridge, such as: carrot and potatoes.

# Rotodisk

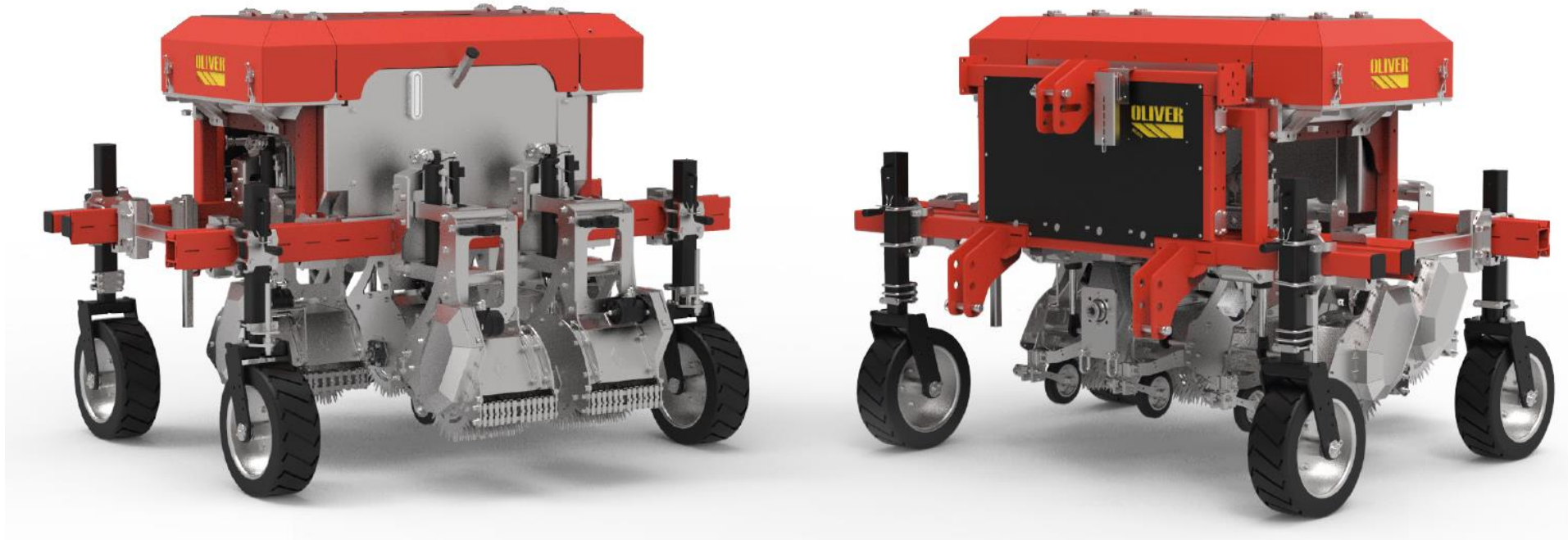


ROTODISK weeding machine with fixed frame; modular with multiple inter-row parallelograms with support wheel to work at the base of the ridge.

Inter-row distance: > 75 cm

For crops such on ridge, such as: potatoes and tobacco

# Colibrì

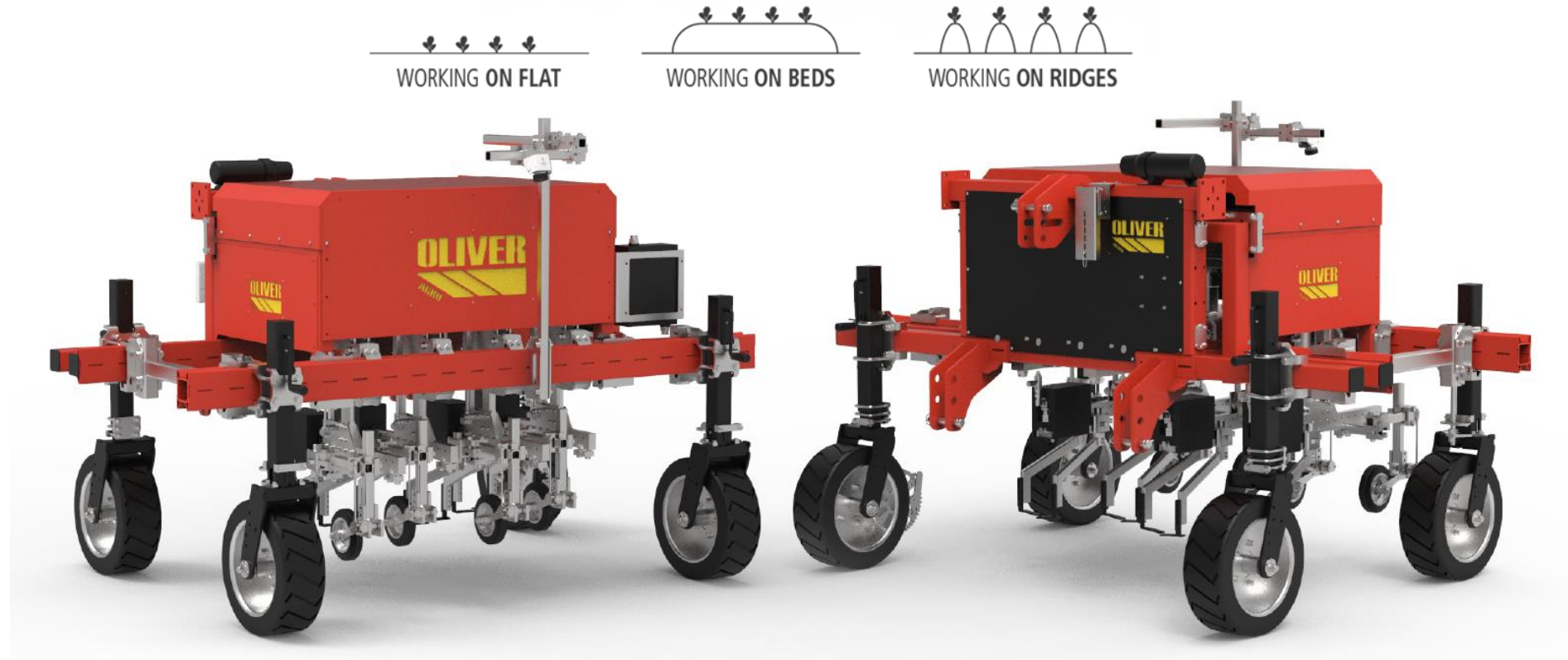


The COLIBRI weeding machine works right next to the sown row at a distance of **2 cm from the plant** without damaging the leaf and root system and preventing weeds from germinating.

Inter-row distance: from 4,5 cm to 6 cm

For crops such as : fourth range, baby leaf and carrots

# Optyma



OPTYMA is our automatic weeding machine, an **inter-row and inter-plant hoe** that work specifically on head and leaf vegetables. It is designed mainly for work at an early stage of growth to prevent weed infestation.

Inter-row distance: from min. 21 cm

For crops such as : fourth range, baby leaf and carrots



# *Minitractor “Elfurbo”*



ELFURBO MINITRACTOR is a self-propelled / trailed by tractor multi-purpose tool-holder, designed to perform the weeding inside of the rows with maximum efficiency and with the help of a single operator.

It supports the Rotoblitz, Rotovert and Colibrì applications. Trainato da un trattore

# Differences from competitors



We work with parallelograms straddling the cultivated row to a span of 50–60 cm from the surface, keeping the **element stable** even without a support wheel and guaranteeing the **highest precision and support** close to the plant.

We have developed **steel tools with sealed bearings**, materials that allow even clay soil to be worked while guaranteeing **aeration, mechanical weeding, and long-lasting effects**.

**Flexibility in the element** being pushed or pulled.  
Modularity in the **configuration**..





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