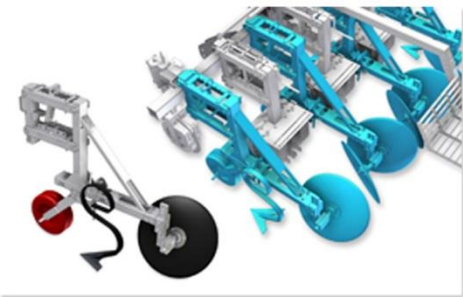
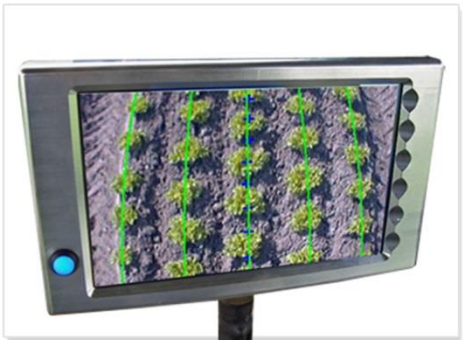


OPZIONALE



Multifunctional parallelogram with manual adjustable load.



Guidance system with automatic control of the rows

A special camera, positioned in front of the machine, recognizes the prevailing "green" color of the plants and the prevailing "red" color of the soil.

A special software processes the two preset colors, selecting two distinct areas that allow the program to correct and maintain the trajectory of the machine thanks to the shifter frame.

The operator, thanks to a monitor placed in the cabin, will see the panoramic image on the transplant rows and at the same time the layout elaborated by the software.



COLIBRÌ Hoeing Machine

COLIBRÌ
*flies higher
and higher*



OLIVER AGRO S.R.L.
Via Torre, 350 - 37056
ENGAZZA' DI SALIZZOLE (VERONA) - ITALY
Tel. +39 045 6954392 - Fax. +39 045 6954408
info@dittaoliver.com - www.oliveragro.com



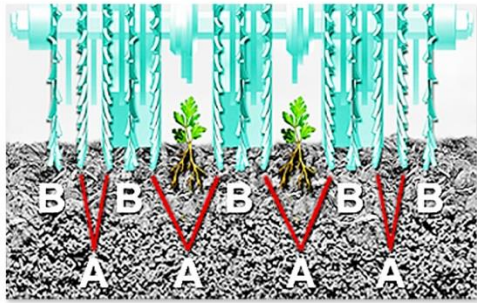
With our "COLIBRI", we act directly on the sown row at 4.5 cm, without damaging to plant root and leaf apparatus and uprooting the weeds:
 -it acts like crust-breaker with a depth varying from 2.5-3 cm;
 -it works from the early stages of plant growth, 10 days after sowing.
 -suitable for organic cultivation.

Crops:
 Carrot, baby leaf, radish, parsley, sown rice, basil, rocket salad endive, beetroot, sown on a bed or on ground.

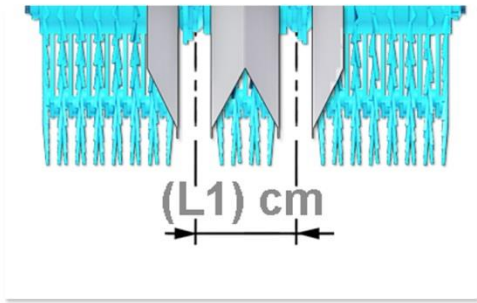
In its kind it is original and unique:

- Reliable, to be precise;
- Revolutionary, unique, inimitable;
- Flexible, with multiple configurations;

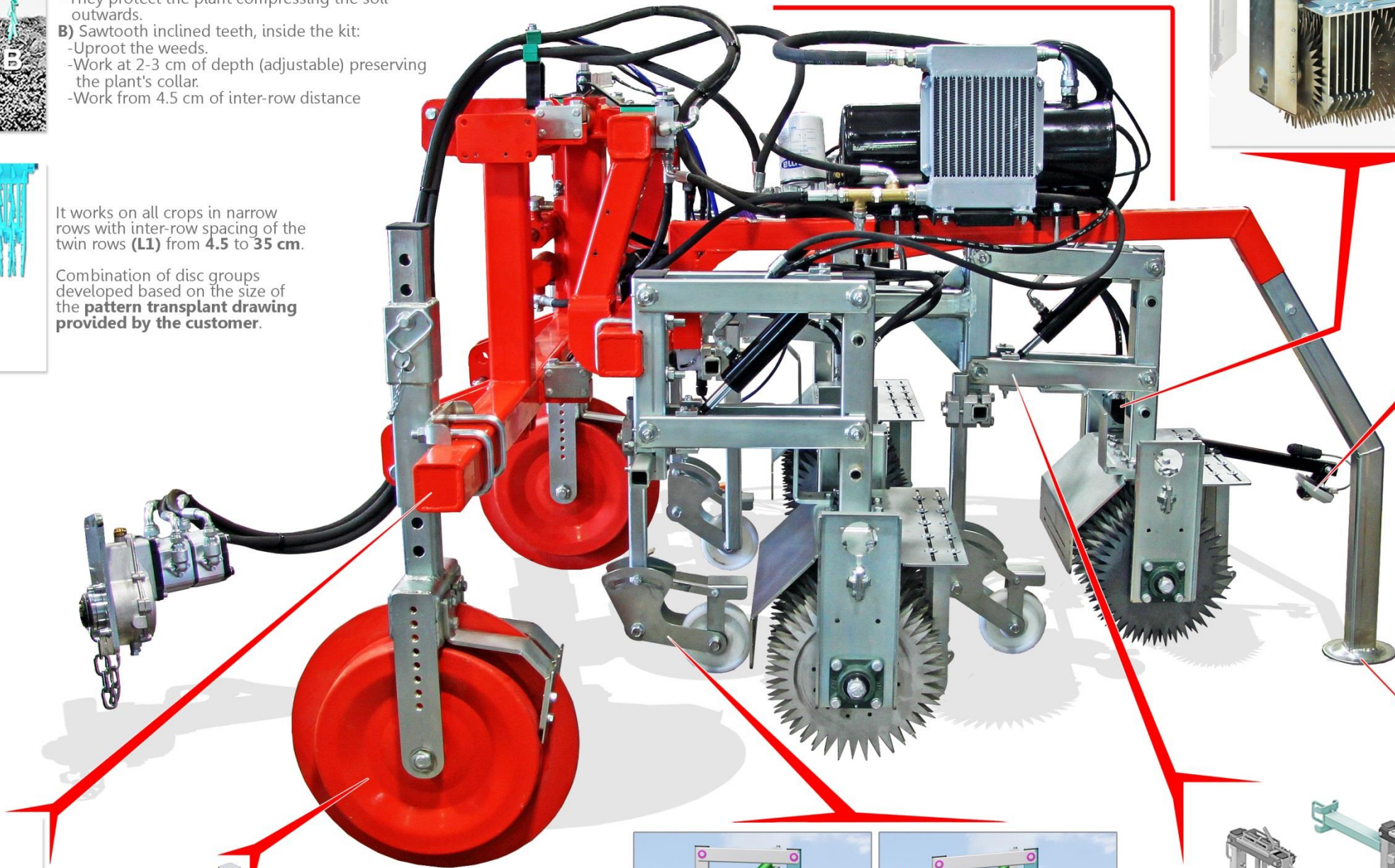
• Cruise speed from 0,8 a 2,5 km / h on carrot and baby leaf;



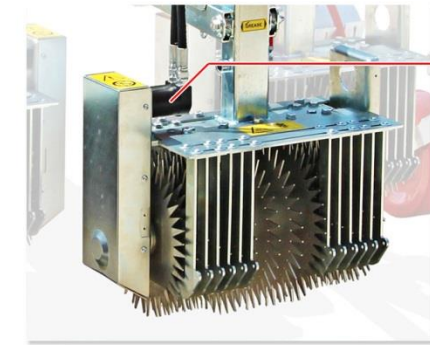
Composed of bundles of toothed stainless-steel discs with the following features:
A) the discs closed to the plant have their tooth inclined in the opposite direction:
 -They protect the plant compressing the soil outwards.
B) Sawtooth inclined teeth, inside the kit:
 -Uproot the weeds.
 -Work at 2-3 cm of depth (adjustable) preserving the plant's collar.
 -Work from 4.5 cm of inter-row distance



It works on all crops in narrow rows with inter-row spacing of the twin rows (L1) from 4.5 to 35 cm.
 Combination of disc groups developed based on the size of the pattern transplant drawing provided by the customer.



Standard independent hydraulic system with gears and n° 2 tandem pumps that manages:
 - Motor driven parallelograms
 - Automatic guidance system
 - System for maintaining working depth

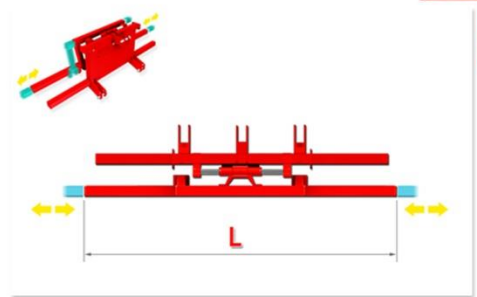


Motor driven parallelograms:
 A hydraulic motor applied to each parallelogram varies the number of turns of the disks, compared to speed of the tractor. The adjustment takes place through a proportional valve, based on soil type and crop. The right ratio favors the weeds uprooting and very soft crust breaker on top.



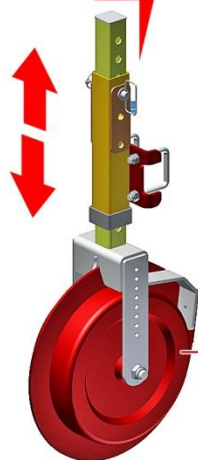
Manual guidance system with camera + 24" monitor
 A high contrast HD camera, mounted in front of 2/3 rows, projects the images on to a 12V monitor positioned in the cabin.
 The operator can adjust the shifting hydraulic frame, manually: also used to center the machine on the bed at the beginning of the row.

Parking support leg

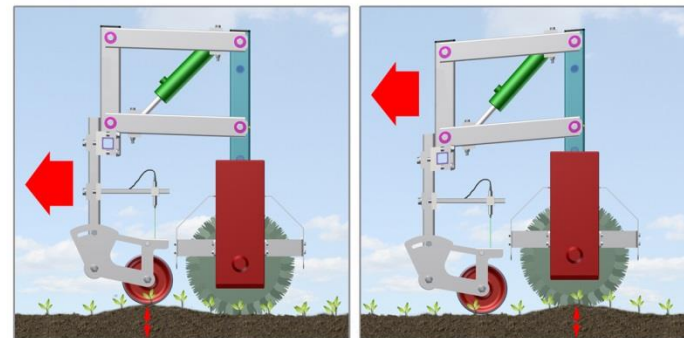


Hydraulic shifting Frame
 Including third point, it has two opposed hydraulic pistons, which move the frame right or left, aligning with precision on the inter-rows distance with a distance sensor.

Frame width L cm 240

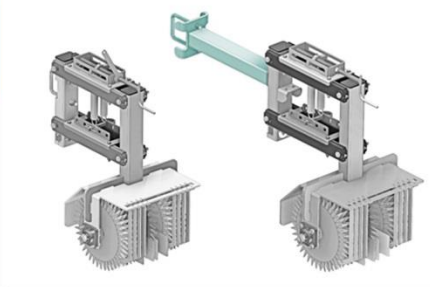


Fixed crested wheels:
 Mounted on height manual adjustable supports.
 Wheel diameters: Ø 400 x 100 mm



Automatic system to maintain working depth.
 We manage to keep the work depth of the weeding discs, with a sensor which reads a ground wheel, mounted in front of the parallelogram. From a **dedicated monitor**, we set and control the depth.

Hydraulic locking of the parallelograms during movement.



Single element Colibri
 Used for one or more rows.
 With or without extension applied according to the rows distances.

