

AGROMA CHERRY 2020

Replaces up to **500** people per day



Cherry harvester

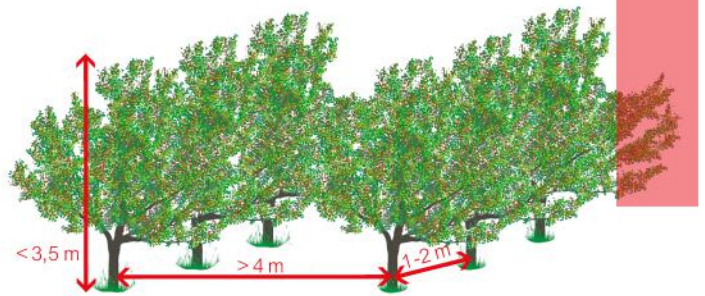


CONDITIONS FOR MECHANISED HARVESTING

In order to achieve proper mechanized harvesting the orchard should have an adapted cultivation form.

The space between the rows should be minimum 4 m. Row spacing between trees should be from 1 to 2 m. At the end of the row tractor with harvester need 6 m for turning.

A tree with a crown should not be higher of 3,5 m and the tree 60 cm from the ground should be without branches.



REQUIREMENTS FOR THE TRACTOR

Mechanized harvesting with semi-mounted harvester AGROMA CHERRY 2020 require a tractor with minimum engine power of 80 HP (59 kW).

In addition to the power of the engine, the tractor should have 4WD, transmission with Creeper because it has to achieve a high rpm in low traveling speed (0,5 to 1 km/h).

WORKING SYSTEM

Harvester pulled by a tractor going in row where trees encounter directly on vertical devices "Shakers" which harvesting fruits by vibrating.

The automatic guidance system is activated by the driver from the tractor cab 1 or 2 min after entering in the row and deactivated on the end of row.



The fruits fall on the collection elevator and continue to traveling by conveyor belt with spatulas.

Fruits traveling by conveyor belt come across to fan, where separation is done by air current. Separation means cleaning the fruits from stalks, branches, leaves, etc.

Working system is best described in a short video. Scan a QR Code and enjoy watching the video.



BOX PALLET

Cleaned and healthy fruits of cherries, plums or olives from the conveyor belt can be poured into box pallets or crates.

Box pallets are more practical in terms of easier manipulation. When the pallet is filled with fruit, the tractor driver is informed by sound signal from worker by platform to stop tractor.

Worker from platform lowers the loaded pallet by a small ramp on the end of platform and worker also sets a new empty palette on the platform.

The whole process takes less than 1 minute.



The collection of box pallets from the orchard is done using a tractor with front loader or telehandler.

Tractor or telehandler can load fruits directly to truck trailer in order for that the fruit traveling to refrigerator as soon as possible and retain freshness

CRATES

Cherry plum or olive fruits can be directly loaded into crates directly from the conveyor belt.

The worker on the platform changes the crates and arrange them on the trailer.

There is a 2 type of trailers which can be pulled by the harvester. Type "Twins" and type "Double" with 2 steerable axles.

On the end of row both type of trailers can be unhook from the harvester and hook to tractor as fresh fruits traveled as soon as possible to the loading place.



TECHNICAL SPECIFICATION

Lenght 8250 mm

Width 3000 mm

Height 3400 mm

Weigth 4830 kg

No. of picking rows 1 row

No. of vertical shakers 2

Productivity ha/h 0,2 to 0,4

Coefficient of usefulness % 95

Working speed 0,5 to 1 km/h

Max. terrain slope 10%

No. of platforms 2 pcs.

Platforms load capacity 500 kg

Hydraulic drive

Oil quantity 120 l

Typ of hyd. oil: HYDROL 46

Working pressure 10 to 11 MPa

Max. oil temperature 80 °C

Min. required tractor 59 kW

Min. required tractor 80 HP

Hitch type - TUZ beam

PTO shaft (540 rpm)



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