

REAR COLLECTOR



CLASSIC VERSION

VT00-XT10 CLASSIC PNA 80 PLUS
VT00-XT10 CLASSIC DGA 80 PLUS



DAY BY DAY WE IMPROVE THE WORLD OF COLLECTING
DRIED FRUIT AND OLIVE COLLECTORS

Agromelca
www.agromelca.com





VT-XT10 CLASSIC SERIES

THE REAR COLLECTION EQUIPMENT

Agromelca



The **VT-XT10 CLASSIC PNA / DGA 80 PLUS** series is specially designed to overcome the limitations that rear collectors have. This new series offers you a totally different and innovative and high-performance product with big advantages for collecting almonds or olives.

This machine is assembled on the back of the tractor. This model is conceived and designed so that it can harvest all kinds of trees.

This device gives us big advantages such as its light weight, high performance, quick-release from the vehicle, its agile handling, fast unloading or great visibility to make the attachments to the tree.

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HEAD WITH THREE POINT CLOSING

- Very light weight.
- Attachment corrected at three points (does not damage branches, trunk or the fruit).
- Continuous circular vibration with the possibility of 30-40% power variation with a very easy operation (5 min.) depending on the type of tree to harvest (almond trees or olive trees).
- The clamping arms that allow us to attach them to trunks with diameters ranging from 8 to 40 cm (depending on the type of tree to be collected).
- The outcome of the sum of the type of vibration incorporated and the attachment corrected at three points system, is that the yield percentages are excellent without any damage.

Optionally, we can assemble the general arms, which will allow us to vibrate perfectly, trunks ranging from 15 to 50 cm.

The vibration we will obtain and the yield percentages will also be excellent.



HEAD WITH PARALLEL CLOSING Z10 (OPTIONAL)

- New two point attachment system.
- It can be assembled on all Agromelca vibration device models.
- Cylinders positioned on the back and therefore they are totally protected.
- Easy attachment to the trunk.
- Wide opening of the pincer.
- Adjustment of the opening of the pincer and therefore we can adapt it to all kinds of trees (with a big diameter, young, etc.).
- Continuous circular vibration with possibility of 30-40% power variation with a very easy operation (5 min.) depending on the type of tree to harvest (almond trees or olive trees).
- Maximum opening of 45 cm. Smaller and designed for medium-young trees.



CONTROL PANEL AND MOVEMENTS

The movements and vibration are carried out very comfortably and easily using an electronic box equipped with joysticks and selectors.



VT00-XT10 CLASSIC PNA 80 PLUS/ DGA 80 PLUS

- Rotation in the pincer (trunk slant).
- Independent lifting of the umbrella.

Joystick and selectors



MOVEMENT AND VIBRATION CONTROLS

- The movements and vibration are carried out comfortably and easily using an electronic box, equipped with joysticks and selectors.
- **Optionally**, an electronic cobra control can be installed.



Electric cobra control

JOYSTICK BOX FUNCTIONS



SIMULTANEOUS MOVEMENTS

OPEN OUT CANVAS
 + CLOSE Pincer ARMS



OPEN Pincer ARMS
 + CLOSE CANVAS

How does it work?

By operating the joystick diagonally, the umbrella will extend and the clamp will close automatically.

If we perform the action in the opposite direction, the clamp will open and we will folded up the umbrella.

COBRA CONTROL FUNCTIONS (Optional)



OPEN OUT CANVAS
+ CLOSE PINCER ARMS



OPEN PINCER ARMS
+ CLOSE CANVAS

- 1** Pressing the button activate the simultaneous. Pushing the joystick (without pressing any button) the umbrella will extend and the clamp will close automatically. Move the joystick in the opposite direction to open the clamp and withdraw the umbrella. To deactivate this function press the button again.



AUTOMATIC SEQUENTIAL MOVEMENTS (Optional)

← AUTOMATIC
How does it work?

When we have the collector positioned correctly in the tree, we will activate it by pressing the button.

- 2** Automatically, the collector will perform the following actions:
1. Extend platform canvas.
 2. Close clamp arms.
 3. Left vibration (if the operator has activated it).
 4. Right vibration (if the operator has activated it).
 5. Opening arms clamp.
 6. Collect platform canvases.

UNLOADING SYSTEM BY MEANS OF VERTICAL LIFTING

- Unloading to the trailer by means of vertical lifting of 2.5 m (this height is reached with the arms of the tractor's hydraulic system down, if we lift the arms the lifting height will increase) and emptying of fruit through the bottom door.
- Tipping of umbrella to group fruit together.
- Minimum percentage of damaged fruit as no mechanical process (sorter) is used in the unloading, but rather unloaded directly into the trailer through a bottom hydraulic door.
- Very fast unloading.
- We eliminate downtimes that occur in the unloading using a fruit sorter.
- Support tyres for stabilising during lifting.
- Safety valve in the lifting cylinders.
- Addressable axis (optional). We can opt for the installation of an addressable shaft in replacement of the standard fixed axis.



TUBULAR ALUMINIUM COLLECTING PLATFORMS

DGA 80 PLUS WITH PEELERS

With this platform we will reduce the weight of a conventional umbrella (iron) and we therefore enormously reduce the wear and breakdowns of the vehicle that withstands the weight and increase the handling of the vehicle, stability, safety, agility of operations and speed in the movements.

Agromelca, S.L. is a pioneer in the manufacture of aluminium platforms (patented).

With this umbrella we have taken a great step forward in the mechanisation of harvesting and we have got rid of the big weight issue.

- Mouth measurement of 0.80 m and approximate bar diameter of 6 - 6.5 m.
- Capacity of the platform 150-200 kg (depending on the fruit).
- Its tubular construction makes entering and leaving the tree operations easier.

- The bar diameter can be changed on request. (Ask).
- Has two peelers incorporated, two fruit sorters and two fruit level sensors in the tank with sound alarm.
- With the incorporation of two peelers and two fruit sorters, the almonds enter and are cleaned very quickly, eliminating downtimes.
- Peeler and fruit sorter speed adjustment.
- Easy to disassemble fruit sorters and aluminium plates of the tank for subsequent use in the harvesting of other fruits (olives).
- The peelers do not have to be disassembled for subsequent use in olive trees, but disassembling them is very quick and easy if required.
- The peeler shaft is easy to extract (to replace rubber seals) only removing three screws.
- **OPTIONAL.** Bars with minimum angle (indicated for olive trees).
- If necessary, to make manually going over olive picking from the outer perimeter of the umbrella easier, the minimum bar angle can be requested
- **OPTIONAL.** Bar supplement to increase the diameter.
- **OPTIONAL.** Low bars open (the first two).





GENERIC PNA 80 PLUS (WITHOUT PEELERS)

With this platform we will reduce the weight of a conventional umbrella (iron) and we therefore enormously reduce the wear and breakdowns of the vehicle that withstands the weight and increase the handling of the vehicle, stability, safety, agility of operations and speed in the movements.

Agromelca, S.L. is a pioneer in the manufacture of aluminium platforms (patented).

With this umbrella we have taken a great step forward in the mechanisation of harvesting and we have got rid of the big weight issue.

- Mouth measurement of 0.80 m and approximate bar diameter of 6 - 6.5 m.
- Approximate load capacity of 350 kg (depending on the fruit).
- Its tubular construction makes entering and leaving the tree operations easier.
- The diameter can be changed on request. (Ask).
- **OPTIONAL.** Bars with minimum angle (indicated for olive trees).

If necessary, to make manually going over olive picking from the outer perimeter of the umbrella easier, the minimum bar angle can be requested.

- **OPTIONAL.** Bar supplement to increase the diameter.
- **OPTIONAL.** Low bars open (the first two).



CONFIGURATION OF THE HYDRAULIC SYSTEM

We have always been committed to the reliability of our products, and therefore all the hydraulic components we install in our collectors are from renowned and top quality brands.

VT00-XT10 CLASSIC PNA 80 PLUS

1. One left vibration and one right vibration.
2. Adjustable vibration brake.
3. Adjustment of the clamping force of arms to the trunk (we prevent peeling).
4. Hydraulic system made up of two pumps with multiplier (540 RPM normal).





VT00-XT10 CLASSIC DGA 80 PLUS

1. Includes left vibration and right vibration.
2. Adjustable vibration brake.
3. Adjustment of the clamping force of arms to the trunk (we prevent peeling).
4. The peelers and fruit sorters stop when we vibrate.
5. Separate speed adjustment of peelers and fruit sorters.
6. The peeler and fruit sorter speed we have chosen does not vary even if we accelerate the vehicle.
7. Hydraulic system made up of a double pump with multiplier (540 RPM normal).



VT00-XT10 CLASSIC PNA 80 PLUS

FEATURES	VT00-XT10 CLASSIC PNA 80 PLUS
Quick attach and release	•
Tubular aluminium platform PNA 80	•
Fruit tank capacity	300-350 Kg depending on the fruit ⁽¹⁾
Bar diameter	6 -6,5 m
Third hydraulic point	optional
Vertical unloading lifting of 2.5 m	•
Safety valve in lifting cylinders	•
Addressable axis (series fixed axis replacement)	optional
Electronic cobra control	optional
Joysticks + selectors box	•
Vibration	1 left vibration + 1 right vibration
Continuous circular vibration	•
Turbo vibration	optional
Variation vibration power 30/40%	•
Adjustment arm tightening and vibration brake	•
Rotation in the pincer	•
Separate lifting from the umbrella	•
Oil radiator	•
Oil tank capacity (litres)	90 l
Hydraulic system	Double pump pump w/multiplier
Tractor power take-off engine revolutions	540 RPM normal
Umbrella opening and closing sound alarm	•
Head arms young tree (three point head)	•
Generic arms head (three point head)	optional
Parallel head Z10	optional
Bar supplement	optional
Minimum bar angle	optional (free)
Tyres	•
Low bars open (the first two)	optional
Telescopic 50 cm	optional
Anti-caloric super soft rubber components (Z10)	optional

Agromelca, S.L. reserves the right to make the modifications it considers necessary to the products in this catalogue without prior notice.

(-) Standard ⁽¹⁾ Rough guide (depends on the type and characteristics of the fruit).

VT00-XT10 CLASSIC DGA 80 PLUS

FEATURES	VT00-XT10 CLASSIC DGA 80 PLUS
Mixed. Almond - Olive	•
Quick attach and release	•
Tubular aluminium platform DGA 80 PLUS	•
Fruit tank capacity	150-200 Kg depending on the fruit ⁽¹⁾
Bar diameter	6 -6,5 m
Third hydraulic point	optional
Vertical unloading lifting of 2.5 m	•
Safety valve in lifting cylinders	•
Addressable axis (series fixed axis replacement)	optional
Electronic cobra control	optional
Caja joysticks + selectors box	•
Vibration	1 left vibration + 1 right vibration
Continuous circular vibration	•
Turbo vibration	optional
Variation vibration power 30/40%	•
Adjustment arm tightening and vibration brake	•
Rotation in the pincer	•
Separate lifting from the umbrella	•
Oil radiator	•
Oil tank capacity (litres)	90 l
Hydraulic system	Double pump w/multiplier
Tractor power take-off engine revolutions	540 RPM normal
Umbrella opening and closing sound alarm	•
Head arms young tree (three point head)	•
Generic arms head (three point head)	optional
Parallel head Z10	optional
Bar supplement	optional
Minimum bar angle	optional (free)
Tyres	•
Low bars open (the first two)	optional
Telescopic 50 cm	optional
Anti-caloric super soft rubber components (Z10)	optional
Olives sorters kit	optional
Sound alarm of level of fruit in tank	•
Two peelers and two fruit sorters	•
Stopping of peelers and fruit sorters in vibration	•
Speed adjustment of peelers and of fruit sorters without change in speed when the vehicle's accelerator is activated	•

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(+) Standard ⁽¹⁾ Rough guide (depends on the type and characteristics of the fruit).

PLATFORM MADE OF ALUMINIUM

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