

 broch



Garlic crop machinery

Garlic splitter

Careful splitting and clove selection

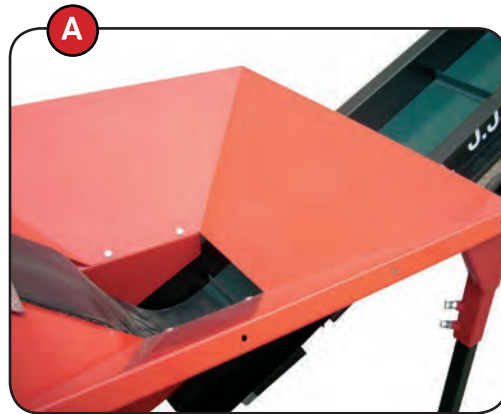
The separation and classification of the cloves is the first step for a uniform, regular plantation. High work output allows for the amount shelled to be adapted to the rhythm of the plantation.



SPECIFICATIONS	Total length (cm)	Capacity (kg/h)	Tension (V)
LIDE-B	985	1000	220/380
LIDE-S	770	500	220/380

SPECIFICATIONS	Feeder			Thresher			Vacuum cleaner			Inspection belt			Cloves Grader		
	L (cm)	W (cm)	M (HP)	L (cm)	W (cm)	M (HP)	L (cm)	W (cm)	M (HP)	L (cm)	W (cm)	M (HP)	L (cm)	W (cm)	M (HP)
LIDE-B	240	175	1	160	52	2	-	-	2	425	83	0,5	270	88	0,5
LIDE-S	180	136	0,75	130	60	1,5	-	-	2	310	60	0,5	250	100	0,5

(L: Length W: Width M: Motor)



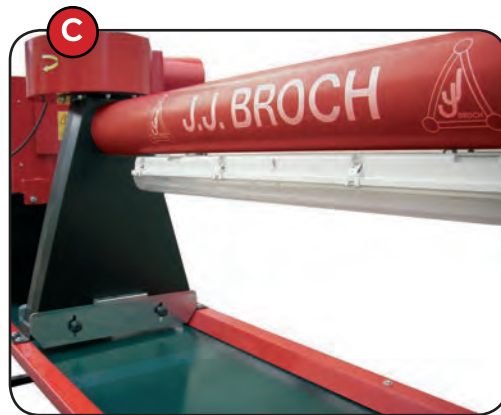
A. Feeding hopper

The width of the hopper makes unloading the garlic bulbs lifted to the splitter easier, using an adjustable speed belt driven by an electric motor.



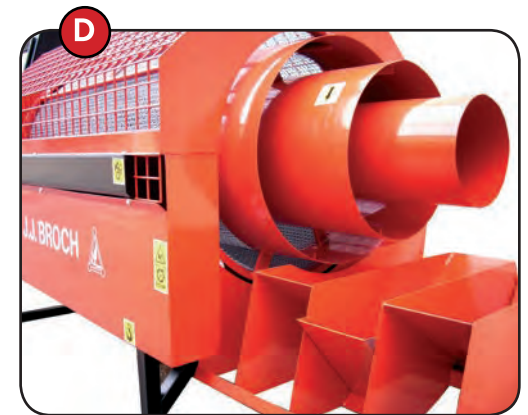
B. Splitter

The splitter, equipped with brushes and belts, separates the cloves to prevent pressure and product damage. The position of the belts is adjusted according to the calibre of the cloves.



C. Selection and suction belt

Two suction areas remove the remains of any bulbs that cannot be used. Any deformed cloves and those without germinating capacity are removed manually from the belt.



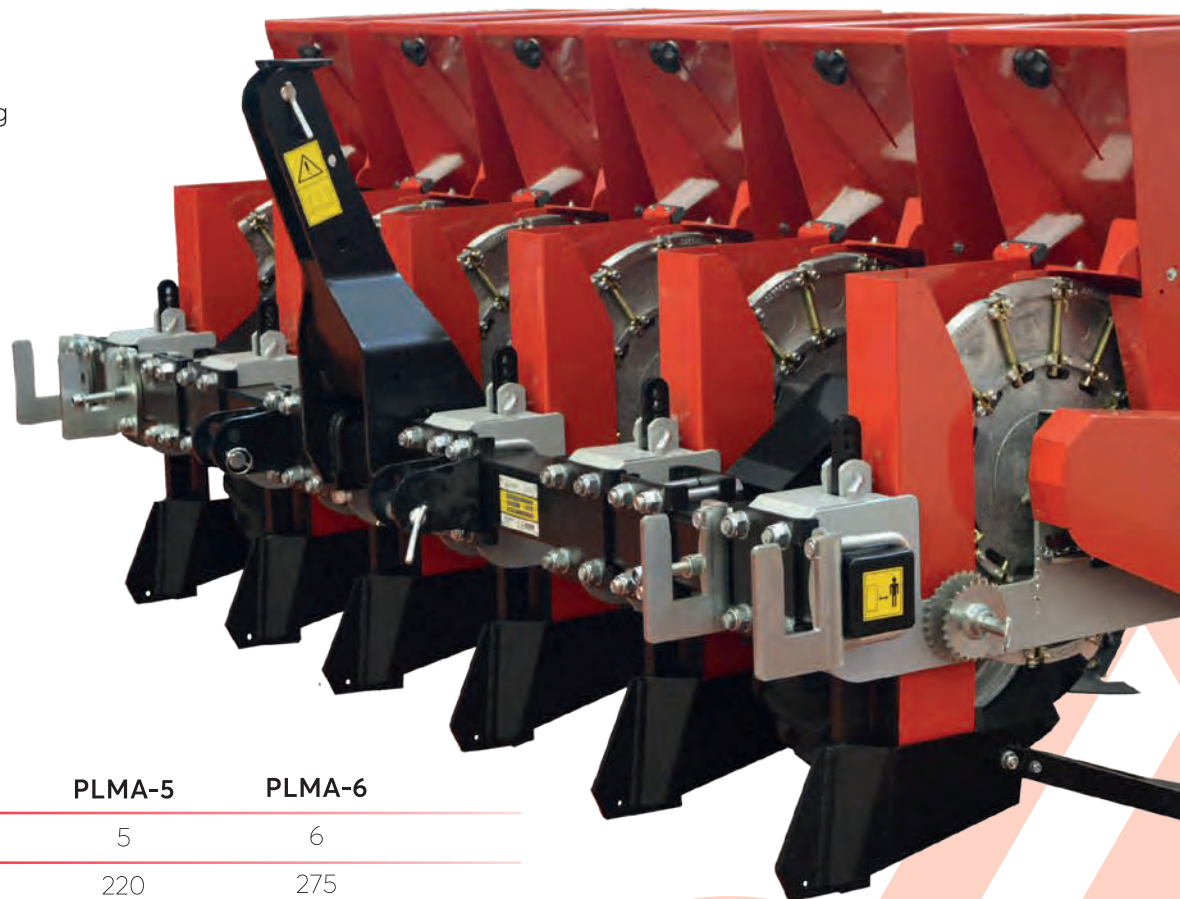
D. Concentric grader

Healthy, selected cloves are classified into five different calibres using four cylindrical sieves measuring 120 cm in length. A precision classification of the different clove sizes to be sown is achieved from largest to smallest calibre.

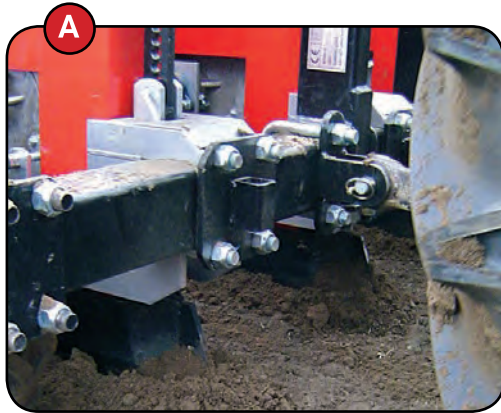
Garlic planters

Precise, easy to use and high performance

The garlic planters collect and position the garlic bulblets without damaging at the depth and dosage required. Their great efficiency, low maintenance and easy of use makes them a vital tool for any garlic producer.



SPECIFICATIONS	PLMA-2	PLMA-3	PLMA-4	PLMA-5	PLMA-6
Number of rows	2	3	4	5	6
Working width (cm)	55	110	165	220	275
Total width (cm)					
- Wheels outside	150	200	255	300	345
- Wheels inside	-	-	180	225	270
Total length (cm)	130	130	130	130	130
Total height (cm)	110	110	110	110	110
Weight (kg)	310	410	510	620	720
Hopper capacity aprox. (kg)	100	150	200	250	300
Power (HP)	20	35	40	50	60



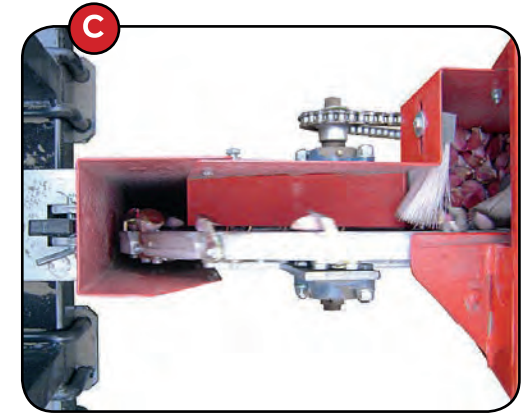
A. Furrowing shares

The height-adjustable furrowing shares open up a minimum amount of soil and form a furrow to ensure the alignment of the sowing garlic bulblets, making their development and subsequent collection easier.



B. Independent units

Each sowing unit has its own hopper with a capacity of around 50 kg, it being possible to plant different garlic bulblets sizes at the same time.



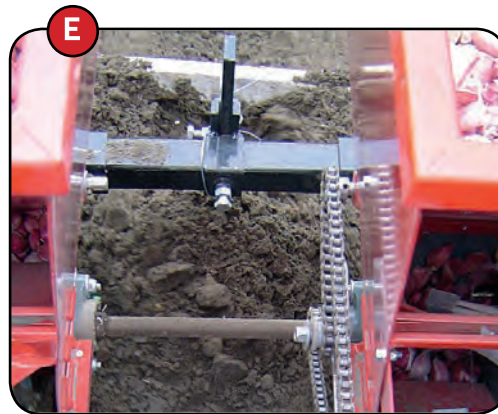
C. Dispensing disk with holders

The fourteen different types of holders allow for the diameter to be adjusted to the size of the sowing bulblet. They are easily and safely changed.



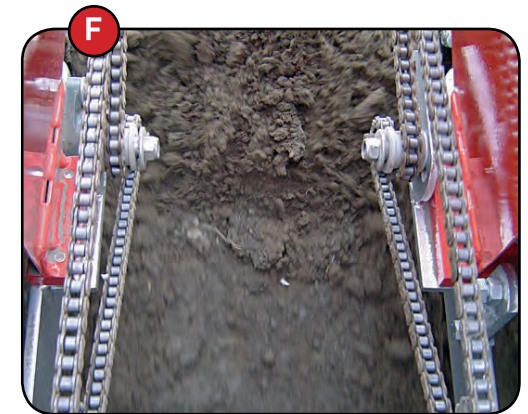
D. Continuous drive wheels

The profile of the wheels ensures non-slip traction and stable support for the planting unit. There are two types of wheels adapted to the different tractor wheel systems.



E. Rear bed former shares

A set of reinforced covering blades covers the line sown and simultaneously forms the furrows to improve crop development and subsequent collection. The depth of the furrow is easily adjustable.



F. Easy sowing dosage adjustment

The sowing dosage can be adjusted from 6 to 15 bulblets per metre through simple pinion change.

Harvester binder ARAT-1/ARAT-2

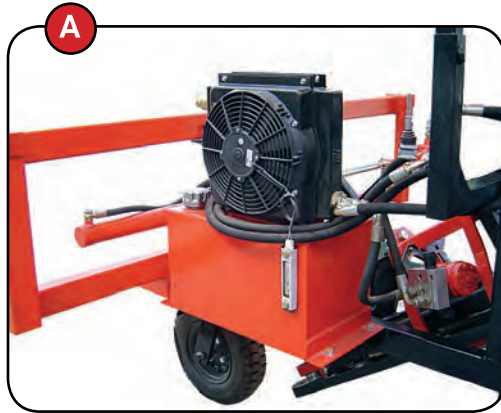
High efficiency and performance

The garlic harvester-binder removes the bulbs of garlic from the soil, eliminating part of the soil, maintaining the leaves for greater preservation and grouping the harvest together to make collection easier.



SPECIFICATIONS

	ARAT-1	ARAT-2
Number of rows	1	2
Inter-rows distance (cm)	40	40-50
Working width (cm)	55	110
Total width (cm)	200	200
Total length (cm)	260-300	300
Total height (cm)	155-205	155-205
Linkage	2-3 points	2-3 points
Performance (Ha/day)	2-3	3-4
Weight (kg)	680	1200
Power (HP)	35	60



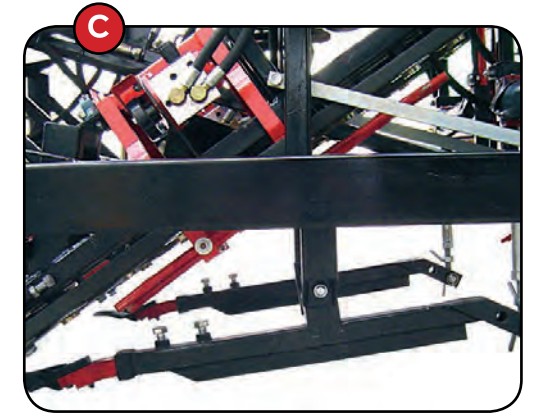
A. Hydraulic drive

All of the picking mechanisms are driven by hydraulic motors enabled by the tractor's PTO.



B. Leaf alignment guides

Two front guides lift any fallen leaves and align the garlic plants to make picking easier. The alignment guides are controlled hydraulically by the operator.



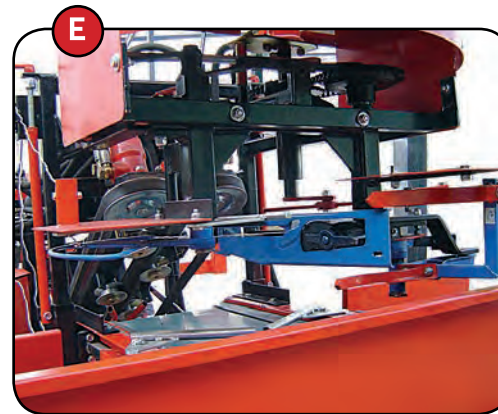
C. Front pulling up share

A share is used to cut the radicular system of the garlic and then lift it gently to be collected by the belt system. The position and depth of the share can be adjusted.



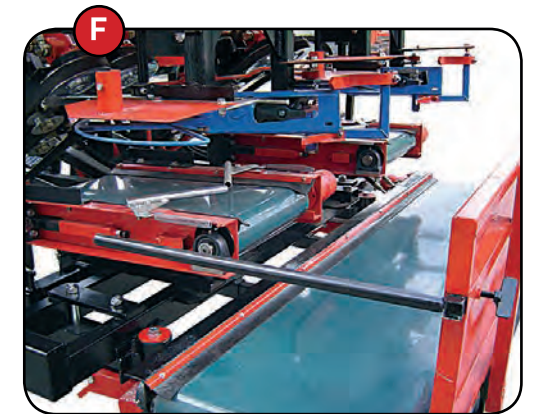
D. Conveyor and cleaning belts

Some of the remains of the soil is removed using a vibration system along the conveyor belts driven by hydraulic motors, keeping the leaves for better preservation.



E. Bunch binder

The automatic binder adjusts the binding height, the string pressure and the size of the bunches, forming groups of garlic bulbs bound by the leaves for better collection and subsequent processing.



F. Output belt

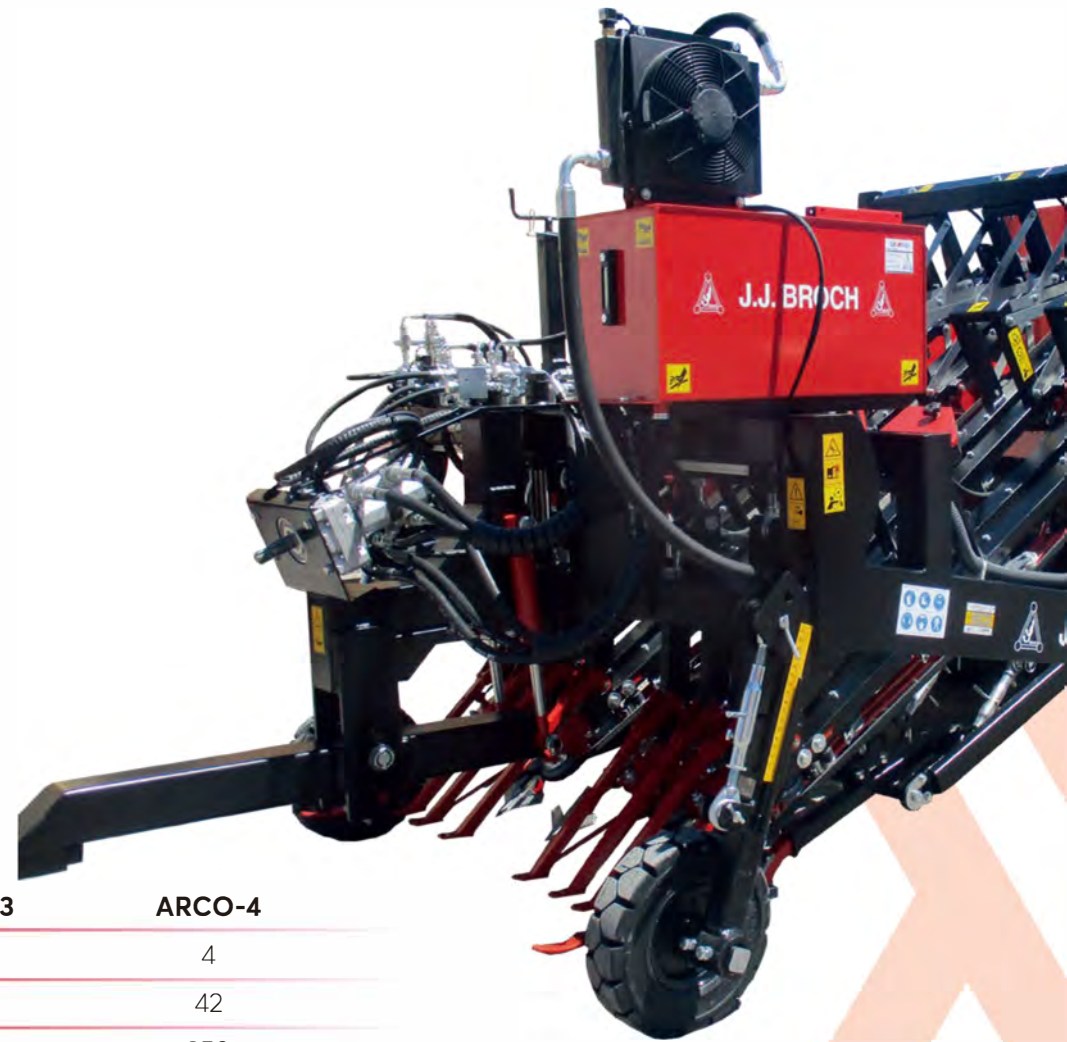
The rear belt, driven continuously or by hydraulic motors depending on the operator, unloads the bunches of garlic vertically onto the ground, the bulbs being protected by the leaves. Their position at a low height avoids knocks and damage to the bulbs.

Harvester cutter

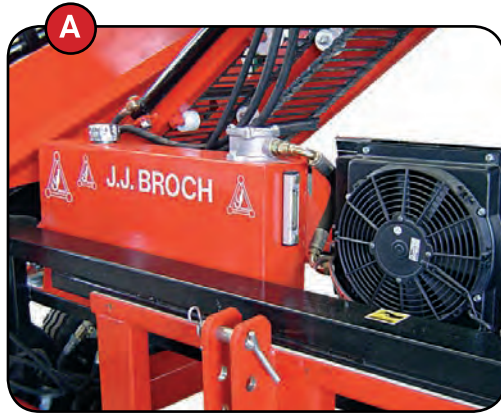
ARCO-1/ARCO-2/ARCO-3/ARCO-4

High efficiency and performance

The harvester-cutters remove the bulb from the soil, remove part of the soil and cut the leaves, storing the bulbs in boxes or sacks of different sizes.



SPECIFICATIONS	ARCO-1	ARCO-2	ARCO-3	ARCO-4
Number of rows	1 side	2 side	3	4
Inter-rows distance (cm)	40	40	65	42
Transportwidth (cm)	300	242	250	250
Total width (cm)	300	380	250	250
Total length (cm)	440	440	440	880
Total height (cm)	235	235	235	260
Linkage	3 p	3 p	pulled	pulled
Performance (t/day)	22,5	45	50	60
Weight (kg)	1280	1870	2700	3400
Power (HP)	70	90	100	110



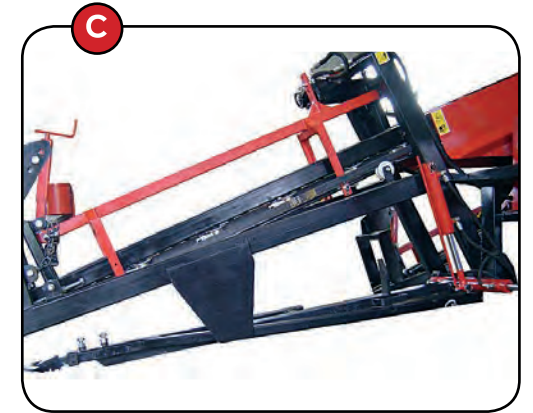
A. Hydraulic drive

All of the harvester's mechanisms are driven by hydraulic motors enabled by the tractor's PTO.



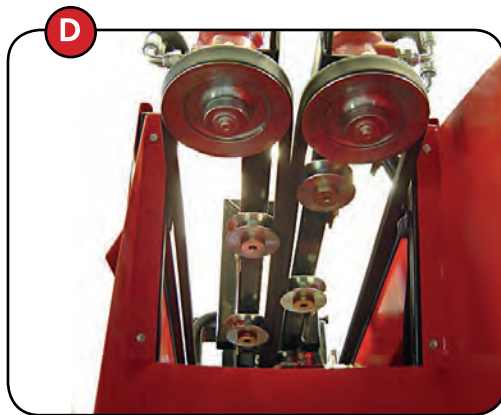
B. Leaf alignment guides

Two front guides lift any fallen leaves and align the garlic plants to make picking and collection along the conveyor belts easier.



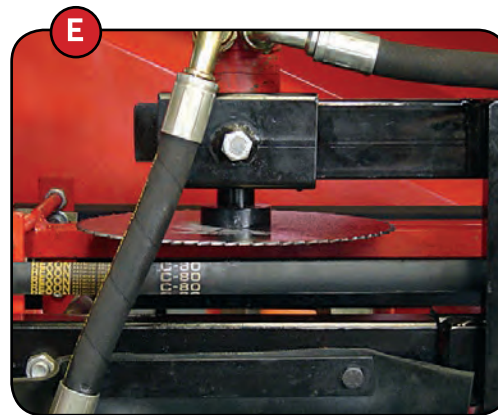
C. Front pulling up share

A share is used to cut the radicular system of the garlic and then lifts it gently to be collected by the belt system. The position and depth of the blade can be adjusted hydraulically.



D. Conveyor and cleaning belts

Some of the remains of the soil is removed using a vibration system along the conveyor belts driven by hydraulic motors.



E. Cutting disk

A second set of belts levels off the bulbs and a high speed toothed disk cuts the leaves at an adjustable height, removing the leaf part and placing the bulb on the packing belt.



F. Packing belt

A rod belt transports the bulbs of garlic to the box or bag, cleaning them again and removing part of the non-commercial bulbs manually.

broch





be garlic, be broch



Garlic Powered Roller Conveyor

Used as an inspection table to remove scrap, 3rd grade bulbs, stones, soil at magazine reception from the field before drying and storing.



Garlic Brusher

Remove the soil, external dry peels and any other parts using rotative brushes without damage the garlic bulbs.



Garlic Grader

A consistent size improve the crop profit. The modular grader JJ Broch can be adapted as number of sizes as needed to optimize the crop marketing.



Garlic Peeler

Splitt and peel garlic allow you to make more profit of your production.



be garlic,
be broch

DEALER



Tel. +34 918 711 297
Fax +34 918 711 433
jjbroch@jjbroch.com
sales@jjbroch.com

C/ Vereda del Alquitón, 13
28500 Arganda del Rey
Madrid · SPAIN

www.jjbroch.com