



## Advantages OB 100 (A)

- 1) Three wheels with differential lock standard.
- 2) This machine works on extreme inclines zones, with maximum traction power.
- 3) Compact design and big steering angle for maximum manoeuvrability.
- 4) Can be used on plants meadows. The plant rotor, with triangle wings, (Registered design) and optimised ground adjustment achieve almost flawless pickup rate a (99%).
- 5) 100 % separation of fruit from grass and leaves.
- 6) Ergonomic seat portion. Angular positioned and spring suspended seat gives optimum view on pickup and hopper.
- 7) The plant rotor is able to rotate with infinitely variable speed.
- 8) Hydraulic power steering.
- 9) Maintenance-free electromagnetic clutch for pickup system.
- 10) The plant rotor can be turned to the left and to the right side, and up and down.
- 11) The plant rotor can be exactly adjusted to the ground by skid.
- 12) The system follows ground angle automatically.
- 13) Metal sheets are phosphate-treated and powder-coated. This gives much better mechanical and UV stability compared to conventional paints.
- 14) Central adjustment of hopper-throw-in cover, adjustable for any size of fruits.
- 15) Professional acceleration pedals for forward and reverse with direction indication.
- 16) Professional return to neutral mechanism for hydrostatic drive.
- 17) Complete fruit hopper capacity utilised 100%.
- 18) Hopper upload is possible in different height, with a hopper rotation of 90°.
- 19) Powerful engine and low noise level(only 30% engine load).
- 20) Possible grass length for best pickup results 5-25 cm.
- 21) Our machines are of highest pickup rate(nearly 100% without damaging the fruits).  
Has 7 stage cleaning system, with 2 brushes, 1 roll-brush, blower for pick up and sieve, so reach the top cleaning quality process more efficient than by hand.
- 22) With special wheels and a low weight achieve to use in the ground with high humidity.
- 23) For society with plants and available in big hopper.
- 24) Industrial engine with 2 cylinder Robuster.
- 25) This machine is very easy to handle.

# Rope shaker OS



## Accessories

- attachment device
- saw for tree
- scissors for tree
- hook for shaker
- Roll of the rope shaker for to shake 2 trees at the same time (saved time of 80%)

## Advantages

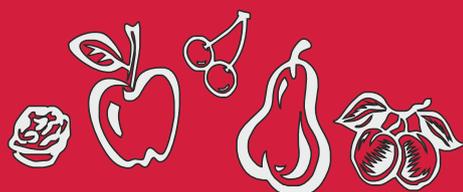
- 1) Easy to assembly at front or rear to Power take-off (PTO) on every tractor with three-point linkage category 1. or major.
- 2) Robust bearing dimensioning (28 000 Kg).
- 3) Solid pipe frame and most steady gear and connecting rod available in the market.
- 4) Metal sheets are phosphate-treated and powder-coated. This gives much better mechanical and UV stability compared to conventional paints.
- 5) The shaker time, is 2-3 minutes and reduce, the working time minimum 90% with low power.
- 6) This machinery is very easy to handle.
- 7) With addition of trailer elements the power of driving is a little reduce.
- 8) If your fruit harvesting is done with robe shaker, usually the next year, you will have a major production, compared who the fruit harvesting has done by hand. This is the result performed in the university of Hohenheim.
- 9) With a tools, the rope shaker is possible to shake 2 trees at the same time, for manoeuvre and for the best harvesting result, with the working time reduced .
- 10) Compared to the conventional ladder principle, tree shaking is more than 50% faster, if the using our patented telescopic handle, for fix the robe onto a branch. It's true efficiency, it guarantees a high security at work without ladder.

## Technical specification rope shaker OS

<b>Application:</b>	shake follow trees, apples pears, plums, cherries, walnuts, citrus fruit and other kind of fruits.
<b>Recommended power:</b>	tractors starting from 15 HP and over.
<b>Rope length:</b>	10 m (standard) other length on request
<b>Rope diameter:</b>	8 mm (standard) other diameter on request in depends of kind of fruit.
<b>Weight:</b>	54 Kg

# Hydraulic trunk shaker VHD/B/E

- VHD: Economical shaker, 2-hydraulic valves
- VHB: Without valves



## Advantages

- Thanks to its low amplitude star like vibration movement, the shaker head has respect for trees and their roots.
- Possible to shake young trees.
- Very easy to handle.
- Best shaker results.
- For trees from 1 m to 20 m height.
- Oil circulation at of articulated joint are separated.
- Masses are driven by 2 hydraulic engines which gives a great dynamism at the start up.
- Shaker head independent from the frame, suspended by 4 chains.

## Technical specification *trunk shaker VHD/B/E*

Length:	3000 mm
Width:	1700 mm
Height:	1150 mm
Weight:	660 Kg
Trunk diameter:	100 - 600 mm
Shaker capacity:	75 trees/h
Oil tank:	30 liters
Power tractor requested:	from 50 HP and over
PTO Revolution:	540 1/min RPM
Workers:	1



# Hydraulic trunk shaker VHP for intensive harvesting



## Advantages

- Mechanically welded frame.
- Shaker head independent from the frame, suspended by 2 chains.
- The 2 support points of the shaker head are mounted on a parallelogram so to reach a width of 2,50 m, swerve maximum.
- 2 hydraulics engines, dynamic start.
- The tightening of the tree's trunk, can be done from 0,30 m to 1,30 m high.
- Is possible to shake 2 trees at the same time, also if with different diameter: from 50 mm to 250 mm or from 250 mm to 400 mm (the adjustment is done by the operator, in depends on his orchard specifications).
- Thanks to its very low amplitude vibration movement, the shaker head has respect for trees and their roots..
- Possible to shake young trees.
- Hydraulic vane pump, direct power take-off.
- Opening and closing as well as vibration and direction of the clamp ore done by joystick (electrical control) which is assembled in the driver's cab.
- All movements are hydraulic.
- Star like vibration with a single belt drive.
- Messes are driven by 2 hydraulics engines which gives a full dynamism at the starting up.

## Technical specification trunk shaker VHP

Length:	2800 mm
Width:	1270 mm
Height:	1150 mm
Weight:	812 Kg (without back balance) - 1190 kg (with back balance)
Trunk diameter:	50 - 250 mm - 250 - 400 mm
Hydraulic oil tank:	140 l
Shaker capacity:	400 trees/h
Power tractor requested:	from 60 HP and over
Worker requested:	1

# Oil press



## Advantages

The oilpress is created for using at home, for realize a small quantity of oil.

Very easy to handle, is enough to put inside the cylinder with holes the nuts, than to put pressure lower the lever.

Repeat more time to achieve the oil.

With this oil press is possible to use many kind of nuts, walnuts, hazelnuts, almonds, pistachios, and olives too.

The cylinder with holes has a capacity about 2-3 kg shelled nuts.

## Technical specification oil press

Length:	600 mm
Width:	260 mm
Height:	570 mm
Weight:	45 Kg
Cylinder diameter:	150 mm
Kind of fruit:	walnuts, hazelnuts, pistachios, almonds, olives ....

# Walnut huller



## Advantages

At the beginning of the season, if you harvest fresh walnuts, you will certainly need this machine that hulls fresh walnuts.

Very easy to use and equipped with a high capacity tank, a very speed process, our huller works very quickly, without crushing walnuts.

The face of the cylinder is lined with nails.

The bottom (expanded metal) turns through a gear motor.

A flap door mounted on the fixed face ensures the discharge of the walnuts.

A water inlet is placed on the upper perimeter of the cylinder.

This is a batch system, each cycle lasts approximately 10 minutes.

Fill the container with walnuts what are to be hulled, engage the rotation: walnuts turn and erode their green skin.

After them the walnuts are washing.

## Technical specification walnut huller

Depth:	470 mm
Height:	1400 mm
Outside diameter:	960 mm
Inside diameter:	920 mm
Basket volume:	340 liters
Flow :	300 - 500 kg/h hulled nuts
Weight:	220 kg

# Rock separator



## Advantages

Directly placed after a harvester or after a pre-washing (or cleaning) station, this machine will easily separate walnuts from rocks so as to minimize the impact of dirt, rocks and mud on the rest of to production line.

This multifunctional device is also used to separate good walnuts, chestnuts from bad one.

As the water level is constant, you will work in the same conditions from the beginning to the end of your work period.

With a water discharge valve, is possible, a speed change of water.

Working without control.

Easy access to bearings and shafts for maintenance and repairs.

This device is used also for hazelnuts for the separation of rocks.

## Technical specification rock separator

**Engine:** three phases with even level of water  
**Length:** 2500 mm  
**Width:** 1025 mm  
**Height:** 2260 mm  
**Weight:** 415 Kg  
**Flow:** 8 m<sup>3</sup>/h (pre-washed walnuts)

# Walnut washer



## Advantages

Walnuts need to be washed so as to remove branches, leaves.

this machine is provided with aggressive draw steel bars, that ensures a efficient washing and a good yield.

It should be noted that this machine can also be used for hazelnuts, chestnuts, almonds, potatoes, peach stones.

## Technical specification walnut washer

Version:	L 15	L20	L25	L36	L38
Electrical engine:	1,1 kW	1,1 kW	1,1kW	1,1 kW	2,2 kW
Height:	1500 mm	1500 mm	1500 mm	1500 mm	up 1,5 m to 2 m adjustable
Length:	2400 mm	2900 mm	3400 mm	3900 mm	3800 mm
Width:	900 mm	900 mm	900 mm	900 mm	1000 mm
Weight:	215 kg	285 kg	415 kg	550 kg	1034 kg
Entry of water:	on the top	on the top	on the top	on the top	on the middle
Diameter:	660 mm	660 mm	660 mm	660 mm	800 mm
Flow fresh walnuts:	0,6 t/h	1,2 t/h	1,5 t/h	2 t/h	3,6 t/h
Flow of water:	1 a 4 m³/h	1 a 4 m³/h	1 a 4 m³/h	1 a 4 m³/h	4 m³/h
Kind of fruit:	walnuts, hazelnuts, chestnuts, almonds.				

# *Inspection table*



## *Advantages*

Our inspection tables are available in 2 versions: STANDARD and ECONOMIC.

They have two main applications: they can be used to separate brocked and contaminated nuts from good ones, or be used to separate shells from kernels, halves..... after cracking and/or disbarking.

These tables are ergonomically designed to be comfortable for the user and are engineered to be easily maintained.

Indeed, the white belt provides better visual comfort and as both height and speed adjustable, you will have the ability to work in safe conditions and act according to your agenda.

Feeding PVC strips.

Removed fruits are manually placed in two lateral casing and are discharged under the inspection table.

## *Technical specification inspection table*

- Working length:** 2150 mm or 3150 mm
- Width:** 510 mm (770 mm including the engine)
- Height:** 830 mm up to 1270 mm
- Weight:** 100 Kg
- motor-reductor with worm geared units
- start/stop button with thermic protection
- rigid frame and folded with plate with adjustable legs.

# Elevator and carpet



## Advantages

Very robust and extremely reliable, this high-performance elevator is available in two versions: with buckets, so as to transport dirty walnuts... or just with a belt/conveyor, in order to convey dried and clean walnuts.

moreover, this elevator is available on any height (up to 9 m up on request) and you can position it how you want it to be (vertically horizontally..)

- very robust mechanically welded folded sheets frame
- fixed on 4 self-aligning bearings
- metal buckets made of galvanized folded sheets
- Three phase motr-reducer, a fixed or adjustable speed, controlled by a mechanical variator.
- fixed or wheeled.

## Technical specification *elevator and carpet*

Engine:	1,1 a kW three phase
Length:	from 3000 mm to 8000 mm and over
Width:	300 mm (450 mm with engine)
Height:	adjustable
Weight:	at depends of version
Flow fresh walnuts:	at depends of inclines from 3 to 5 t/h