



GACEK: The Automatic Tree Shaker *Your Innovative, Cost-Efficient Solution*

The Automatic Tree Shaker GACEK is ideal for harvesting for Harvesting Sour Cherry, Almond, Plum, and Other Stone Fruits.

- GACEK, fully developed by JAGODA JPS under R&D with the Institute of Horticulture in Skierniewice, is a pull-type automatic tree shaker featuring an exclusive shaking head and tarpaulin system. It offers an advanced, economical solution for stone fruit harvesting without costly hydraulic kits (Patent No. P-386556).
- Harvester features an inverted umbrella that unfolds under the tree to catch fruit as the trunk is gently shaken, while a built-in conveyor and fan remove leaves and impurities for efficient, clean collection.



Lowering Production Costs: Efficiency & Tree Protection

- High Efficiency: Harvests 50–60 trees per hour with up to 98% fruit collection.
- Gentle on Fruit & Trees: Adjustable shaker head protects trees and ensures premium quality.
- Easy Operation: Suitable for family farms up to 7 ha, operated by 2 or 3 people (including tractor driver).
- Smart & Economical Design: Requires only a 30 HP tractor and minimal oil flow (~30 L/min), avoiding costly hydraulic kits that required by traditional systems (50 L/min).

Highest workmanship standard – Fully equipped:

- Effortless Handling: Fruit is collected into small boxes or 500 kg pallets, with a hydraulic pallet lifter for efficient management.
- Hilly Terrain Friendly: Operates efficiently on small slopes in hilly plantations.
- Automatic Tarpaulin: Hydraulic system unfolds and folds the tarpaulin automatically.
- Clean Collection: Built-in fan removes leaves and other impurities.



Orchard Preparation for Mechanical Harvest

- Row spacing: min. 3.8 meters (12.5 feet)
- Tree spacing in row: min. 2.2 meters (7.2 feet)
- Ground clearance: Not Required
- Trunk diameter: 50–220 mm (8.66 inches)
- Trunk height: min. 0.7 meters (2.3 feet)
- End-of-row distance: 5- 6 m
- Maximum Crown Diameter: Approximately 3.8 meters (12 feet)



- Shaker Head P20/P30 with suitable for trunks up to 20 cm/ 30 cm in diameter
- The advanced timing belt for the shaker head ensures smooth shaking that protects the tree's roots and prevents the shaker paw from damaging or stripping the bark, unlike traditional systems



- Agricultural 4.0: IoT-integrated with GPS & activity tracking software



Technical Specification

Model	GACEK
Mounted Type	▪ Hook to the tractor joist. Bar Category 1,2
Working System	▪ Tractor's hydraulics system
Hydraulic Oil Flow	▪ 30 L/min (Tractor oil pump)
Tractor Capacity	▪ Min 30 HP
Working Length	▪ 5,200 mm
Transport Length	▪ 4,800 mm
Max. Working Width	▪ 3,700 mm
Transport Width	▪ 2,400 mm
Working-Transport Height	▪ 2,400 mm
Dry Weight	▪ 1300 kg
Scope of Paws Grip	▪ 50 – 300 mm
Harvest Accuracy	▪ Up to 98%
Output	▪ 45–60 trees/hour
Number of Operators	▪ Tractor Driver + 1 (into 500 kg pallet boxes) / Tractor Driver + 2 (small bins)

Transport Dimensions

	Side view	Front view
Length		
4800 mm		
Width		
2400 mm		
Height		
2090 mm		



GACEK Automatic



G-004 PRO Automatic



G-004



PESTKA



RS-100