

PS-6,000

ALL NEW

In-Shell Pecan Sorter

Patent Pending



Sorts out **BOTH Sticks AND Sticktights**

The cost-saving benefits of automated sorting— at an affordable price.

► **Removes 90%+ of Sticks and 95%+ of Sticktights.**

Advanced, proprietary software identifies both sticks and sticktights for removal. The result is little unwanted trash on the inspection belt, and that means the lowest possible inspection labor costs.

► **Easy Installation.**

Requires as little as 4" of space before the final inspection belt. Good pecans drop onto the inspection belt. Sticktights and sticks are removed on a separate conveyor (not included).

► **Right-Sized Operating Speed**

If you've got as much as 50% sticks and sticktights, the PS-6,000 will operate at 6,000 lbs/hr. At low percentages, operating speed can be higher. Never slow down the entire plant because of a high percentage of sticks and sticktights.

► **"Start It Up and Walk Away"**

A touch screen control panel guides the operator through the functions of the PS-6,000. No close monitoring or frequent adjustments required. A self-test system alerts the operator if attention is required. (See back for details.)



► **Simplified Pecan Handling**

Our proprietary software is designed for use with our unique, vibratory feed system (patent pending). No belts, chains or alignment rods. The result is less maintenance and cleaning plant downtime.

INSPECTION MASTERS LLC

Advanced Optical Sorting Systems for Agriculture

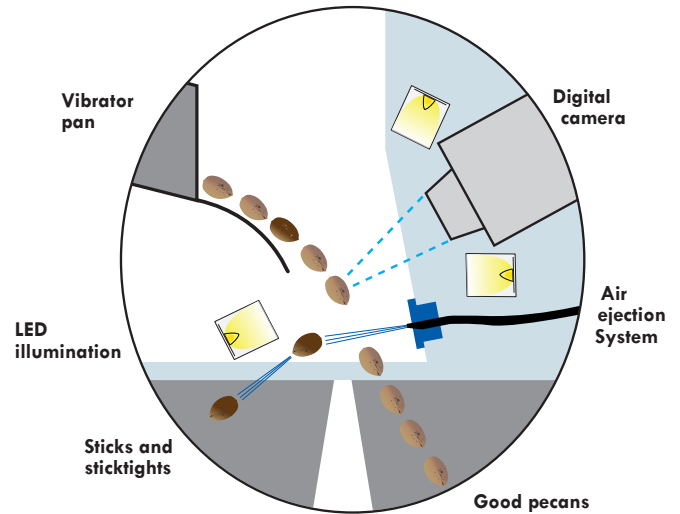
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How the PS-6,000 Works



- 1** Unsorted pecans, sticks and sticktights are elevated to the feed hopper.
- 2** Pecans, etc. flow from the hopper onto the vibrator pan. Flow rate is adjusted by the vibrator speed control.
- 3** Pecans, etc. flow off the end of the vibrator pan through a backlit imaging area. A high speed, digital camera images the flowing stream of pecans, sticks and sticktights. I.M.'s proprietary image analysis software differentiates good pecans from sticks and sticktights. Computer controlled air valves eject the sticks and sticktights.



- 4** Sticks and sticktights are blown into the rejects chute.
- 5** Good pecans drop onto the final inspection belt.

Operator Control Panel

- ▶ Computerized diagnostics run automatically at start-up to ensure that the sorter is ready for operation.
- ▶ The operator sets the "threshold" so that the maximum number of sticks and sticktights are sorted out without also ejecting good pecans.
- ▶ The operator can touch the air valve test button at any time to ensure that all air valves are operating properly.



Technical Specifications and Installation Requirements:

Electrical: 115vac, 5 amps
 Compressed air: 5cfm at 120 psi
 Footprint: 24.5 in. x 67 in. overall. Detail drawings available on request.
 Feed hopper capacity: 2.8 cubic ft., or about 110 lbs. of pecans.
 Hopper extension adds 4.6 cubic ft., or about 180 lbs.

Height: 45.5 in. from the top of the feed hopper to the bottom of the lower horizontal frame rail. Optional legs add up to 48 in., depending on customer specification. Optional hopper extension adds 19.75 in.
 Weight: Approx. 520 lbs.



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351 N. 17th Street, Las Cruces, NM 88005
 P.O. Box 100, Las Cruces, NM 88004
 Office: 575.647.8203 • Fax: 575.647.8248
www.inspectionmasters.net