

SegriPack by Segritech

Smart Robotic Packing System for Graded Fresh Produce

Product Name: Segripack by Segritech

Model: SP100

Version: 1.0

Release Date: 01/07/2025

Developed By: Segritech.

1. Product Overview

SegriPack is a next-generation robotic packing system engineered to automate the final stage of the post-harvest handling process. Using AI-powered visual recognition, soft robotic grippers, and modular conveyor integration, it picks graded fruits and vegetables and packs them into crates, boxes, or trays — ensuring speed, accuracy, and produce safety.

Compatible Produce: Apple, Pomegranate, Citrus fruit, Mango, Sapota, Kiwi, etc.

2. Product Image:



3. Technical Specifications

Parameter	Details
Operation Type	Robotic Pick & Place with AI Vision
Throughput	3–5 tons/hour
Packing Formats	Crate, Box, Tray, Punnet
Fruit Compatibility	Apple, Pomegranate, Orange, Mango, Kiwi, Avocado, Guava, Sapota, etc.
Power Requirement	230V AC / 3-Phase
Control System	PLC + Edge AI (Jetson/NVIDIA module)
Sensors	3D Vision, Load Cells, Alignment Tracker
Material	SS-304 + Food-grade HDPE/Silicone
Dimensions	Approx. 6ft (L) × 4ft (W) × 5ft (H)

4. Key Features

✓ Automated Pick & Place

Equipped with intelligent robotic arms and food-safe soft grippers, SegriPack gently lifts individual fruits from the grading line and places them into their designated packaging with zero bruising or drop damage.

✓ Flexible Packing Configurations

Supports a wide range of packaging formats:

Industrial crates (plastic or wooden)

Corrugated fiberboard boxes for retail/export

Clamshell trays (PET, pulp-based)

Punnets and netted packs (for small fruits like kiwi or tomatoes)

✓ **High-Speed Throughput**

4–6 fruits packed per second (depending on fruit size and pattern)

Supports up to 2–3 tons/hour throughput for medium-to-large fruit categories

✓ **Compact & Modular Design**

Designed for Indian packhouse conditions

Modular layout supports standalone deployment or inline integration with grading conveyors

Scalable to multi-lane operations for high-throughput users

✓ **Food-Safe & Hygienic Build**

All contact parts are made of SS-304 and FDA-certified food-grade polymers. The system is:

Washable

Moisture-resistant

Suitable for HACCP/Export-grade hygiene standards

5. Key Benefits

✓ **Reduces Manual Labor:**

Replaces 4–6 workers per line, reducing peak-season labor shortages

✓ **Increases Packing Speed:**

Improves pack-out efficiency and helps meet large orders on tight timelines

✓ **Minimizes Product Damage:**

Gentle handling ensures low spoilage and higher first-grade ratio

✓ **Ensures Standardization:**

Patterned packing improves crate stability, brand presentation, and compliance

✓ **Scalable Investment:**

Add more arms or lanes as your volume grows — a future-ready system


6. Why Segritech?


- Made in India AI Inspection Technology: Purpose-built for Indian farmers and exporters.
- Scalable Tech Stack: Seamless integration with traceability and ERP systems for packhouses.
- Built for Bharat: Designed in India, for the Indian agri economy—robust, serviceable, and portable.
- Trusted by Leaders: Developed under guidance from the IIT Bombay & IIIT-Hyderabad ecosystem, TiE Global network, and field validation with leading agri players.
- Committed to Excellence: Cutting edge technology provider, prompt support, and continuous R&D for evolving crop needs.


7. Contact Information

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