

Segritech Minisort: Optical AI Grader for Fruits & Vegetables.

Product Name: Segritech Minisort Optical AI Grading Machine.

Model: SM-2000

Version: V1.0

Release Date: 01/01/2025

Developed By: Segritech (Unit of Tikkly Agro Solution Pvt. Ltd.)

1. Product Overview

Segritech Minisort Pomegranate Grading Machine is a high-capacity, AI-powered grading machine engineered for farmers, traders and packhouses, commercial aggregators, and mandis. Designed to handle 1-1.5 tons per hour capacity, it can grade multiple fruits and vegetables like Apple, Pomegranate, Orange, Tomato, Mango (medium size round and oval fruits) based on size, shape, color, and skin/surface quality defects. This advanced machine ensures superior consistency and high level efficiency at large scale processing.

2. Original Image of The Product:



2. Technical Specifications

Specification	Details
Capacity	1-1.5 Tons/Hr
Grading Parameters	Size, Shape, Color, Skin Defects (External Quality)
Grading Technology	AI + Camera + Vision-Based + Roller Assist
Grading Output	5–6 Grades (Customizable)
Material of Construction	Stainless Steel (SS), Mild Steel (MS), Aluminium, Food-Grade Plastic
Machine Dimensions	10 ft (L) x 5 ft (W) x 5 ft (H)
Functionality	1. AI-based Grading 2. Sorting 3. Reporting/Documentation
Power Requirement	3.5 kW/5 HP
Voltage	440V, 50Hz (3-Phase) Or 220V (Single Phase)
Drive Mechanism	Motor & Conveyor Belt with AI Sync
Feeding Mechanism	Vibratory/Conveyor-fed
Mobility	Industrial-grade caster wheels

3. Features and Benefits

- **AI-Driven Precision:** Multi grade output on the basis of size, shape, color, and defect detection, this can ensure uniformity in quality.
- **High Throughput:** Processes 1-1.5 tons/hour, suitable for gradin at Farms, Mandi, Medium Scale Farmers, Traders, packhouses and export operations.
- **Skin Defect Detection:** Identifies cracks, black spot, scarring, and fungal marks using high-resolution imaging.
- **Durable Construction:** Industrial-grade SS and MS frame for rugged use in mandi and farm environments.

6. Maintenance and Support

- AMC Available: Annual Maintenance Contract with optional digital diagnostics
- Service SLA: On-site support within 24 to 48 hours
- Warranty: 12 months free warranty from date of commissioning
- Remote Support: Available withing 1 hour via Video Call and remote connect.

7. Why Segritech?

- Made in India AI Grading Machine for Fruits & Vegetables: Purpose-built for Indian farm and mandi realities.
- 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.

8. Contact Information

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