

## Segritech : Apple Size Grader

**Product Name: Segritech Apple Size Grading Machine**

**Model: SAGM-200**

**Version: V1.0**

**Release Date: 01/04/2025**

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

### 1. Product Overview

The Segritech Apple Size Grading Machine is a compact and efficient agricultural machine designed for small to medium-scale apple producers. With a robust roller-based grading mechanism, this model provides high accuracy in size grading, ensuring better pricing and packaging for apple growers and aggregators. Built using a mix of stainless steel, mild steel, and food-grade nylon, it ensures durability, hygiene, and operational reliability in farm and mandi environments.

### 2. The Product Visuals:



## 2. Technical Specifications

Specification	Details
Capacity	200-250 box per day
Grading Method	Roller-Based Size Grading
Grading Output	6 Grades
Material of Construction	Stainless Steel (SS), Mild Steel (MS), Nylon
Machine Dimensions	10 ft (L) x 4 ft (W) x 4 ft (H)
Functionality	1. Cleaning & Drying 2. Size-Based Grading
Power Requirement	1.5 kW/HP, Single Phase/3 Phase
Voltage	[220V/440V, 50Hz]
Drive Mechanism	Motorized rollers with adjustable RPM
Feeding Mechanism	Roller-fed.
Mobility	Portable with wheels.
Noise Level	< 70 dB

## 3. Features and Benefits

-Accurate Grading: Roller-based system allows consistent and precise separation of apples by size.

-Sturdy Construction: Built from corrosion-resistant stainless steel and durable mild steel framework.

-Food-Grade Contact Parts: Nylon rollers ensure gentle handling and compliance with food safety standards.

- Dual Function: Integrated cleaning & drying section for removing dirt and surface residues before grading.
- Compact Design: Fits within limited farm or warehouse spaces; easily relocatable.
- Customizable Output Chutes: Configurable collection trays for each grade.

#### **4. Use Cases**

- Farm-level apple collection centers
- Small and medium Farmers or FPOs (Farmer Producer Organizations)
- Fruit packhouses and mandi sorting operations
- Cold storage preprocessing units
- Exporters/Retailers

#### **5. Compliance and Safety**

- Built with food-grade materials (FDA-compliant plastics)
- Safety guards over moving parts for operator protection
- Easy-clean design with minimal maintenance needs

#### **6. Maintenance and Support**

- Annual Maintenance Contract (AMC) available
- On-site servicing within 72 hours (In Shimla, Himachal Pradesh)
- First year Warranty free, i.e. no charges.

## 7. Why Segritech?


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


## 8. Contact Information

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