



ZHENGZHOU LERFORD MACHINERY EQUIPMENT CO.,LTD

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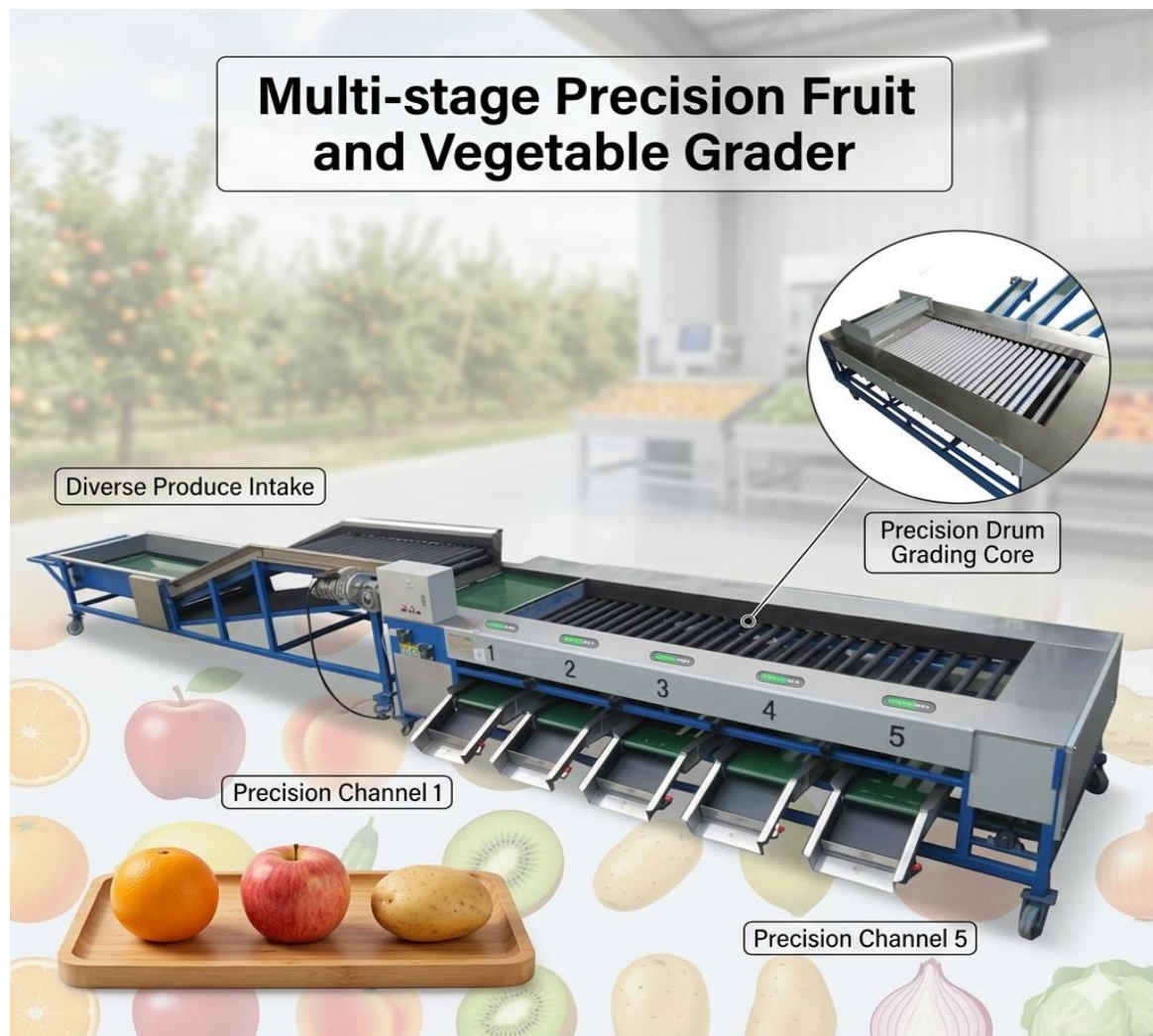
Quotation for Roller classifier

Introduction

Our roller grading machine is a high-efficiency sorting solution designed to classify round and oval-shaped fruits and vegetables by size. It is widely used in the food processing industry for citrus, apples, potatoes, onions, tomatoes, and similar produce.

Featuring adjustable roller gaps, the machine automatically separates products into different grades based on diameter, ensuring consistent sorting accuracy. The main contact parts are made of food-grade 304 stainless steel and non-toxic plastic rollers, which meet hygiene standards while protecting the surface of fragile items from bruising. The robust carbon steel frame with anti-corrosion coating guarantees long service life and stable operation under continuous use.

The system includes multiple discharge conveyors for easy collection of graded products, reducing manual handling and improving overall processing efficiency. Simple structure, easy cleaning, and low maintenance make this machine an ideal choice for small to medium-sized food processing plants looking to automate their sorting line. It is widely used for pre-treatment before castor seed oil extraction.





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What Can It Handle?



Our High-Precision Rotary Drum Classifier is engineered for maximum versatility, providing a gentle yet efficient grading solution for a vast array of agricultural products. Whether you are processing delicate fruits or heavy root vegetables, this system ensures accurate sizing without compromising product integrity.

1. Citrus & Pome Fruits

Perfect for spherical and near-spherical fruits that require precise diameter separation:

Citrus: Oranges, Mandarins, Lemons, Grapefruits, Oropuz, and Shatang Mandarins.

Pomes: Apples, Pears, and Hawthorns.

2. Stone Fruits & Berries

Designed to handle high-value produce with a soft touch:

Stone Fruits: Peaches, Plums, Apricots, and Cherries.

Berries & Others: Strawberries, Kiwis, Pomegranates, and Cherry Tomatoes.

3. Vegetables & Root Crops

Built robustly to manage heavier, soil-grown items:

Root Vegetables: Potatoes, Sweet Potatoes, Taros, Onions, and Garlic.

Melon-type Vegetables: Tomatoes, Eggplants, and Short/Round Cucumbers.

4. Nuts & Dried Fruits

Highly effective for pre-packing or pre-processing stages:

Nuts: Chestnuts, Walnuts, and Peanuts (In-shell).



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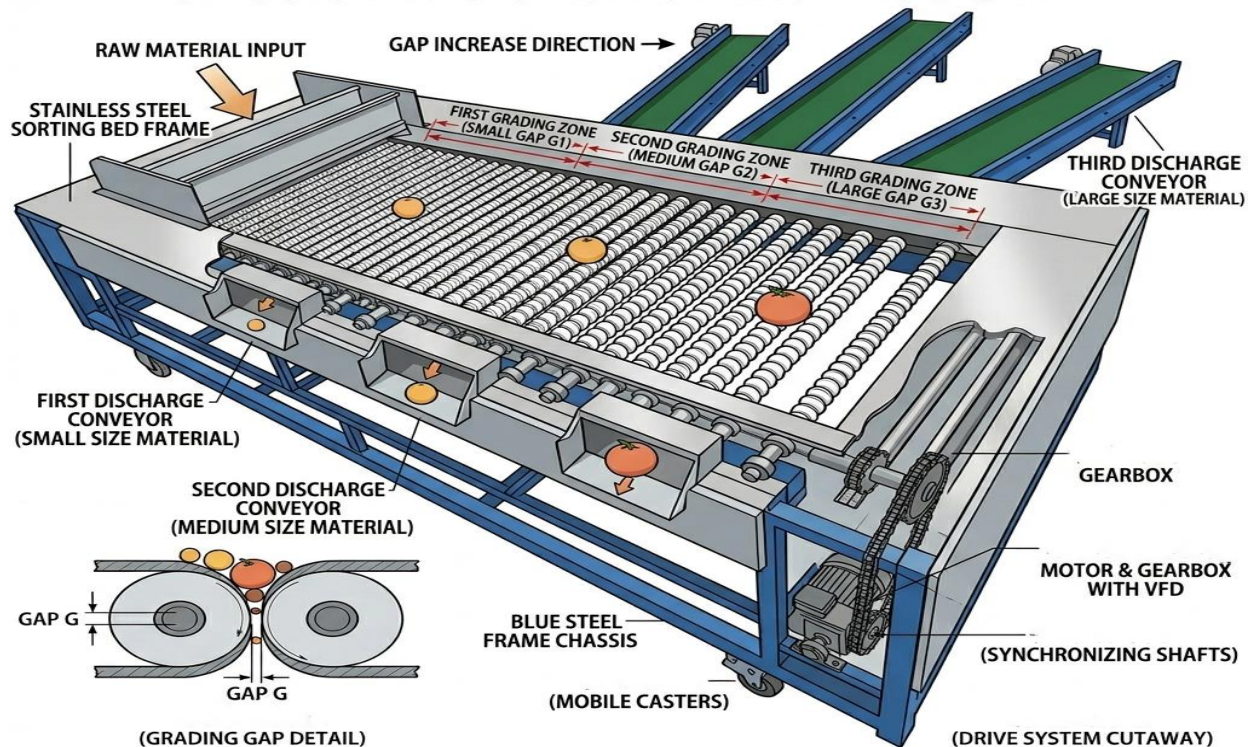
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Technical Specifications & Customization

We understand that every processing facility has unique requirements. Our classifiers are fully configurable to match your specific material characteristics.

Feature	Specification
Grading Accuracy	Up to 98% (Subject to material consistency)
Number of Stages	3 Stages (Standard); 2-6 Stages (Customizable)
Roller Material	Food-grade Polymer or Stainless Steel
Frame Construction	Heavy-duty reinforced steel with anti-corrosion coating
Mobility	360° Industrial Swivel Casters with locking brakes
Material	201&304Stainless steel
Power Supply	220V/380V(Customized per country standard)

ROTARY DRUM CLASSIFIER MECHANICAL STRUCTURE AND GRADING PRINCIPLE DIAGRAM





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Why Choose Our Rotary Drum Technology?

1. Gentle Spiral-Roller Grading Bed

The core of the machine features a series of specialized spiral-patterned sorting rollers. Unlike traditional vibratory screens that can bruise or damage sensitive produce, our rollers gently rotate and advance the material.

Precision Gaps: The spacing between rollers is finely calibrated to sort items by diameter.

Zero-Damage Handling: The spiral texture ensures continuous motion without harsh impacts, preserving the "fresh-picked" quality of your fruits or vegetables.

2. Five-stream automatic discharge

Efficiency is built into every inch of this system. We've integrated five independent, heavy-duty green conveyor belts positioned perpendicularly to the grading bed.

Seamless Sorting: As material travels down the bed, smaller items fall through the initial gaps, medium items through the center, and the largest items continue to the end.

No Bottlenecks: Each grade is immediately whisked away to its respective packing station, ensuring a continuous, high-speed workflow.





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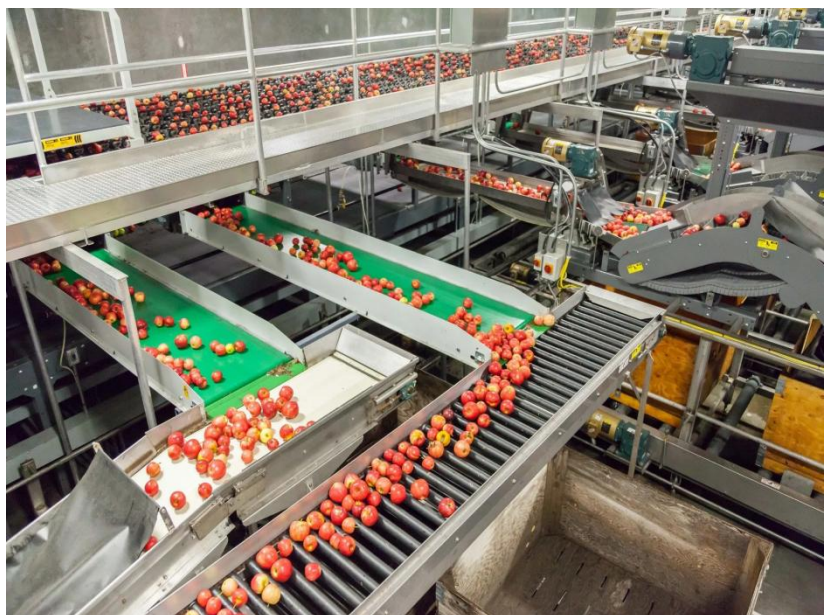
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Versatile Application Scenarios

The High-Precision Rotary Drum Classifier is a multi-functional workhorse designed to add value across the entire agricultural supply chain. In **Fresh Produce Packing Houses**, it serves as the critical first step for standardizing fruits like oranges and apples for premium retail markets, ensuring consistency and increasing market value. **Food Processing Plants** utilize its precision to sort root vegetables like potatoes and onions before automated peeling or slicing, significantly reducing waste and optimizing downstream efficiency. Additionally, its gentle handling makes it ideal for **Seed Production and Nut Processing Facilities**, where maintaining the structural integrity of walnuts or chestnuts is paramount. From **Central Kitchens** requiring portion-controlled standardization to **E-commerce Distribution Centers** focused on high-speed small-packaging, this system adapts to diverse industrial needs, offering a seamless transition from raw harvest to market-ready product.



central kitchen & distribution
center



Food-Processing-Plant



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fresh produce packing house



nut dried fruit processing
line

Factory





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Packing&Transportation

We prioritize the safety of your investment from our factory to your facility. Our integrated packing and logistics protocol ensures that your High-Precision Rotary Drum Classifier arrives in pristine condition, ready for immediate installation.

Robust Export Packaging: The main machine body is secured within a heavy-duty, fumigation-free plywood case that meets international ISPM-15 standards. This provides superior protection against impact and structural stress during multi-modal transit.

Anti-Corrosion Protection: Before sealing, all stainless steel surfaces and critical mechanical components are coated with a specialized anti-rust film and wrapped in high-density moisture-proof vacuum plastic to prevent oxidation during long-term sea voyages.

Space-Efficient Loading: To minimize your shipping costs, the machine is designed with a modular frame. Longer discharge conveyors and the intake hopper are carefully disassembled and labeled for compact





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Comprehensive Documentation: Each shipment includes a detailed packing list, an installation guide, and a quality inspection certificate, clearly visible in a waterproof pouch attached to the exterior of the crate.

In the production process, the company strictly follows the international quality management system, from the procurement of raw materials to the assembly and testing of products, every link is strictly controlled to ensure



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the stable and reliable quality of the products. The company has a modern production base and advanced production equipment, which can meet the customized needs of different customers for equipment.



Golden Supplier



SGS



Top 1 Alibaba Supplier



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How about cooperation client?



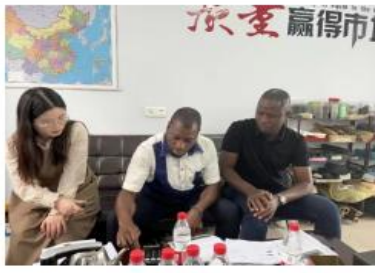


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Customer visits

			
aARMENIA	Tanzania	Côte d'Ivoire	Germany
			
Congo	Cameroon	South Africa	Ethiopia
			
Thailand	Uzbekistan	India	Ghana

Our Certification:

