



Raisin Cleaning, Destemming & Packing Line

Complete Turnkey Business Proposal



CUSTOMIZABLE | DIRECT SALES FROM THE SOURCE FACTORY

Supplier reference: real stainless food-cleaning and inspection conveyor arrangement representative of a raisin finishing line.

300-500 kg/h starter dried-raisin input	3-4 planned sale grades	12-25 kW dry-line connected load	6-10 entry operators
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Prepared for investment planning in Afghanistan and regional export markets. Final specifications, pricing, civil works, and utility loads require supplier quotation and site survey.

Executive Summary

This finishing line upgrades already-dried Afghan raisins by separating clusters and stems, removing dust, stones and defective fruit, grading by size and packing released product. A dry route is the lowest-entry option and helps preserve traditional green-raisin appearance. If the buyer requires washing, the project must include validated potable-water treatment, rapid dewatering and controlled surface drying before packing; washed raisins must never be bagged while damp.

Why this project fits Afghanistan

- Afghanistan's raisin crop can be sold in cleaner, uniform and traceable grades.
- Dry destemming and grading fit small packers with limited water and wastewater infrastructure.
- Manual inspection remains economical for launch volumes and protects premium fruit from harsh handling.
- Retail and export buyers can specify distinct size, color, stem and foreign-matter limits.

Sanaatchi delivery scope

- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning
- International logistics, customs documentation, operator training, spare parts, and after-sales support

Recommended configuration

For the lowest credible entry, select a 300-500 kg/h dry line with a cluster breaker, gentle destemmer, aspiration, destoner, grader, inspection belt, magnet and semi-automatic packing. Add washing, dewatering, hot-air surface drying or color sorting only when the target buyer's specification requires them.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Premium cleaned raisins	Buyer-approved color, size, moisture, stem count and defect limits	Retail, export and premium wholesale buyers
Standard cleaned raisins	Food-grade uniform lot for repacking or ingredients	Domestic wholesalers, bakeries and processors
Industrial raisin grade	Food-safe smaller or appearance-defect fruit within contract limits	Bakeries, confectionery and ingredient users
Stems and rejected fruit	Separated and disposed or used only through approved channels	No food sale without separate acceptance

A dedicated supplier lists a 500 kg/h dried-raisin stem and impurity removal machine, while complete industrial references add washing, dewatering, drying and color sorting at much larger capacities. Sanaatchi's entry design remains dry unless the buyer specifically requires washing, because surface water on high-sugar dried fruit creates a serious mold and shelf-life risk without controlled redrying.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Cluster breaker and metered feeder	Separates compacted raisin clusters without excessive fruit damage	Low-speed food-grade contact parts
2	Gentle raisin destemmer	Detaches and screens loose stems	Adjustable action for green and dark raisins
3	Aspiration channel	Removes dust, light stems and leaves	Variable airflow with sealed dust collection
4	Raisin destoner	Separates stones and dense field contamination	Food-contact deck and low fruit drop
5	Multi-deck grader	Separates raisins by commercial size	Three or four buyer-approved grades
6	Illuminated inspection conveyor	Supports manual removal of defective fruit and foreign matter	Adjustable speed and food-grade belt
7	Optional wash and surface-drying module	Washes only when required and restores pack-safe surface dryness	Potable water, dewatering and controlled low-temperature air
8	Metal detector and packer	Checks and packs released raisins	Semi-automatic retail or 5-25 kg scope

Equipment models are indicative and will be matched to the selected capacity, local raw-material tests, available utilities, and preferred automation level.

Reference Equipment Gallery



CUSTOMIZABLE | DIRECT SALES FROM THE SOURCE FACTORY

Supplier reference: real stainless food-cleaning and inspection conveyor arrangement representative of a raisin finishing line.



Welcome to inquire about custom bottle & can packaging line design

Supplier reference: real dried-fruit weighing, filling and packaging equipment suitable for configured raisin packs.

Images are supplier references for configuration discussion; final equipment appearance and model may differ.

Plant, Raw Materials & Utility Requirements

Raw materials

- Dried Afghan raisins segregated by variety, color and drying method
- Potable water only for a validated washing route
- Food-grade pouches, liners or cartons
- Labels, coding and sealing consumables

Utilities & infrastructure

- Stable electricity for drives, aspiration and packing
- Dry, cool raw-raisin and finished-product storage
- Dust extraction and hygienic reject handling
- Potable water, drainage and low-temperature drying only if washing is included
- Calibrated moisture meter, scales and inspection lighting

Quality, safety and environmental controls

- Accept each lot by moisture, water activity, odor, mold, insects and foreign matter
- Measure stem count, stones, damaged fruit and clean-product recovery
- Protect fruit from tearing, sugar leakage and excessive mechanical polishing
- If washed, validate water quality, dewatering, final surface dryness and microbiology
- Inspect color, size, defects, metal and pack seal
- Maintain lot traceability from grower or drying site through finished packs

A final factory layout must reserve safe forklift routes, maintenance clearances, raw-material segregation, finished-goods storage, fire protection, ventilation, and future expansion space.

Indicative Investment & Implementation Plan

LOW-ENTRY CONFIGURATION

Lowest entry uses a dry line with cluster breaking, destemming, aspiration, destoning, grading, manual inspection and semi-automatic packing. Land, building, raisin inventory, washing and redrying, optical sorting and cold storage are excluded.

Component	Indicative range	Notes
Cluster breaking, destemming and aspiration	US\$5k-12k	Gentle dry preparation
Destoning, grading and inspection	US\$5k-11k	Manual inspection at entry scale
Metal checking and semi-automatic packing	US\$4k-9k	Limited launch pack formats
Electrical, installation and initial spares	US\$2k-6k	Include screens, belts and lighting
Freight and clearance	US\$3k-8k	Dry line only
Indicative low-entry total	US\$19k-46k	Building, raisin stock, washing/drying and color sorter excluded

Implementation sequence

Phase 1	2-3 weeks	Confirm varieties, buyer limits, grades, dry or washed route and packs
Phase 2	2-4 weeks	Run destemming and grading trials and approve recovery
Phase 3	5-8 weeks	Manufacture, inspect and ship the line
Phase 4	3-5 weeks	Install, train, validate hygiene and complete shelf-life checks

Ranges are planning targets for a low-cost entry configuration, exclude land, and remain subject to confirmed capacity, supplier quotation, freight, duties, exchange rates and site conditions.

Next Steps & Contact Information

Recommended next steps

- Confirm target products, hourly output, and packaging formats
- Test representative raw materials and document quality requirements
- Complete site survey covering electricity, water, fuel, drainage, roads, and warehouse space
- Request comparable technical and commercial quotations from shortlisted suppliers
- Finalize financing, logistics, installation, training, and spare-parts plan

Sanaatchi Industrial Vision Group

Afghanistan Office: +93 779 819 820 | info@sanaatchi.com

China Office: +86 159 5171 6867 | china@sanaatchi.com

Website: www.sanaatchi.com

Research and image references

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