



Spice Grinding & Packaging Line

Complete Turnkey Business Proposal



Alibaba supplier reference: real integrated spice grinding, mixing and powder-packing machinery.

50-100 kg/h starter grinding input	20-80 mesh trial particle-size range	3 launch single spices	5-9 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

A dry line for separately receiving released whole spices, final cleaning, controlled-temperature pre-crushing and grinding, sieving, optional recipe blending, metal detection and powder packing. Dust collection, heat control and strict allergen or recipe changeover are central to safe operation.

Why this project fits Afghanistan

- Locally packed spices can replace imported retail powders.
- Separate validation protects aroma, color and particle-size targets.
- Small blending capacity supports branded seasoning recipes.
- Dust-controlled equipment improves hygiene and worker conditions.

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, use a 50-100 kg/h pre-crusher and pin or hammer mill with cyclone and pulse dust collector, two interchangeable sieves, 50-100 kg ribbon blender and semi-automatic auger packer. Launch with three separately validated spices.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Single ground spices	Declared species, particle size, moisture, color and microbiology	Retail, food-service and food manufacturers
Blended seasonings	Controlled recipe, salt declaration and allergen label	Retail, restaurants and processors

Grinding temperature and volatile-oil loss vary strongly by spice. Acceptance must record feed moisture, throughput, peak product temperature, particle-size distribution, yield and dust loss for each launch spice. Sugar- or oil-rich materials may require different mills.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Final cleaner and magnet	Protects the mill from foreign matter and metal	Released whole-spice feed
2	Pre-crusher	Reduces large spices to stable mill feed	Interchangeable cutter or screen
3	Pin or hammer mill	Produces controlled spice powder	50-100 kg/h product-dependent
4	Cyclone and pulse dust collector	Recovers powder and controls airborne dust	Closed conductive ducting
5	Vibratory sieve	Classifies powder and returns oversize	Two launch mesh sizes
6	Ribbon blender	Produces validated seasoning recipes	50-100 kg/batch
7	Metal detector	Checks released powder before packing	Validated test pieces
8	Auger pouch packer	Doses, seals and codes spice powder	Two or three launch pack sizes

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



Alibaba supplier reference: real integrated spice grinding, mixing and powder-packing machinery.



Manufacturer reference: real food-grade spice mixing and packaging production system.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Released dry whole spices by separate lot
- Only declared food-grade blend ingredients
- Barrier pouches, labels and cartons
- Validated cleaning and changeover materials

Utilities & infrastructure

- Stable three-phase electricity
- Clean compressed air where specified
- Potable process water where required
- Washable food-grade processing room with dust control
- Dry segregated raw-material and finished-goods storage

Quality, safety and environmental controls

- Confirm identity, moisture, microbiology and foreign matter
- Monitor grinding temperature and volatile-aroma loss
- Verify particle-size distribution and mass balance
- Use dust extraction, grounding and suitable fire protection
- Validate blend uniformity and allergen changeover
- Check metal detector, fill weight, seal and label

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 launches three separately validated spices with semi-automatic packing. Cryogenic grinding, full automatic blending, sterilisation, building and working stock are excluded.

Component	Indicative range	Notes
Cleaning and pre-crushing	US\$3k-8k	50-100 kg/h preparation
Mill, cyclone and dust collection	US\$6k-15k	Product-specific grinding trials
Sieving and optional blending	US\$4k-10k	Three launch spices
Packing and quality tools	US\$4k-10k	Semi-automatic retail launch
Freight, installation and spares	US\$4k-9k	Conductive ducting confirmed
Indicative low-entry total	US\$21k-52k	Building, spice stock and sterilisation excluded

Implementation sequence

Phase 1	2-3 weeks	Confirm raw-material specification, product grades, capacity and packs
Phase 2	2-4 weeks	Run trials with representative Afghan raw materials and approve samples
Phase 3	5-9 weeks	Manufacture, inspect and ship the selected equipment
Phase 4	3-5 weeks	Install, train and validate process controls and shelf life

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

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Research and image references

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