

Cornmeal Grinding & Packing Line

Complete Turnkey Business Proposal



Supplier reference: compact 200 kg/h grain mill suitable for a small cornmeal workshop.

150-250 kg/h starter throughput	7.5-15 kW indicative connected load	2-4 entry operators	0.5-25 kg starter pack range
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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 is the simplest commercial maize-conversion option in the catalog. It receives already cleaned, food-grade maize, grinds it to buyer-selected meal sizes, removes oversize material, equalizes batches and packs the product. It is not a full degerminated maize-flour plant, so shelf-life and flavor expectations must match whole-maize cornmeal.

Why this project fits Afghanistan

- Very small equipment scope suits workshop-scale entry
- Afghan maize provides local raw material for household and bakery meal
- Two screen sizes permit simple market testing
- The line can later add dehulling, degerming or automatic packing

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 minimum investment, use one 200 kg/h mill, a small sifter, dust collection, a buffer hopper and semi-manual packing; maize cleaning may be shared or separately installed. Launch with one fine and one coarse grade after local cooking trials.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Fine whole-maize meal	Buyer-approved fine screen and moisture	Households, bakeries and food service
Coarse cornmeal	Uniform coarse cooking fraction	Traditional dishes and institutional kitchens
Custom meal blends	Defined blend of screened fractions	Private-label and contract buyers

One compact supplier mill lists 200 kg/h, 7.5 kW and adjustable 60-200 mesh capability, while a powder-packing reference lists auger filling and retail pouch formats. The entry project uses conservative output and requires buyer trials because maize variety, moisture and screen size change actual capacity.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Receiving hopper and magnet	Meters clean maize and protects the mill	Covered food-grade hopper
2	Compact cornmeal mill	Grinds maize to adjustable meal texture	About 200 kg/h supplier reference
3	Cyclone and dust filter	Collects meal and controls airborne dust	Include blower and safe filter cleaning
4	Small vibration sifter	Separates fine, coarse and recycle fractions	Two buyer-approved launch screens
5	Buffer hopper or small blender	Equalizes flow and batch texture	Food-grade cleanable design
6	Semi-manual packer	Weights retail or wholesale portions	Auger or scale matched to meal flow
7	Sealer and date coder	Closes packs and records lot/date	Compatible with selected bag material

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



Supplier reference: compact 200 kg/h grain mill suitable for a small cornmeal workshop.



Supplier reference: enclosed auger-fed powder pouch packing machine applicable to cornmeal.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Clean dry food-grade Afghan maize
- Food-grade retail pouches or lined bags
- Labels and coding ink
- Approved sanitation materials

Utilities & infrastructure

- Stable electricity matched to selected motors
- Dust extraction and ventilation
- Dry clean maize and finished-meal storage
- Calibrated scale and moisture meter
- Food-hygiene and pest-control program

Quality, safety and environmental controls

- Accept only maize checked for mold, insects, odor and mycotoxin risk
- Verify magnet condition and screen integrity
- Measure meal moisture and particle-size distribution
- Approve cooking taste and texture for each maize variety
- Check pack weight, seal and lot code
- Control combustible grain dust and housekeeping

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 assumes already cleaned maize and uses one compact 200 kg/h mill, a small sifter, basic dust control and semi-manual packing. Land, building and maize inventory are excluded.

Component	Indicative range	Notes
Compact mill and magnetic feed	US\$1.5k-4k	One 150-250 kg/h milling unit
Sifter, cyclone and dust control	US\$1.5k-4k	Two launch meal grades
Buffer and semi-manual packing	US\$2k-6k	Start with simple bags and coder
Electrical, installation and initial spares	US\$1k-3k	Local frame and connections where safe
Freight and clearance	US\$1.5k-4k	Compact consolidated shipment
Indicative low-entry total	US\$7.5k-21k	Cleaner, building, maize stock and delivery vehicle excluded

Implementation sequence

Phase 1	1-2 weeks	Confirm meal grades, maize sample, pack formats and cleaning arrangement
Phase 2	1-2 weeks	Run grinding and cooking trials and approve screens
Phase 3	3-6 weeks	Manufacture, inspect and ship the equipment
Phase 4	1-2 weeks	Install, train, test packs and release initial batches

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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