

Multi-Seed Cold-Press Oil & Filtering Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real small multi-seed hydraulic/cold-press equipment.

60-120 kg/h starter press input	2 validated launch seeds	1 press entry extraction core	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

A flexible small oil mill for separately receiving sesame, mustard, flax and sunflower seed, cleaning, moisture conditioning, optional low-temperature warming, screw pressing under a defined seed-specific temperature limit, settling, filtration, protected oil holding, cake handling and bottle filling. Each seed requires separate trials and labeling.

Why this project fits Afghanistan

- Afghan oilseeds can support premium traceable cold-pressed oils.
- A multi-seed mill spreads seasonal supply risk.
- Press cake can have feed or ingredient value subject to safety checks.
- Filtered unrefined oils require less capital than a refinery.

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 100-200 kg/h cleaner, one 60-120 kg/h temperature-controlled screw press, settling tanks, plate-and-frame or pressure filter, small clean-oil tank and semi-automatic bottle filler. Launch with two validated seeds and no chemical refining.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Cold-pressed sesame or flax oil	Declared seed, process temperature, clarity, moisture and oxidation limits	Premium retail and food-service buyers
Filtered mustard or sunflower oil	Seed-specific sensory and safety specification with traceable lot	Retail and culinary buyers subject to local rules

“Cold pressed” needs a documented temperature definition and cannot be assumed from the machine name. Acceptance uses each seed and records feed moisture, input, press temperature, crude and filtered oil yield, cake residual oil, filtration loss, clarity, oxidation and sensory results.

Core Equipment Schedule

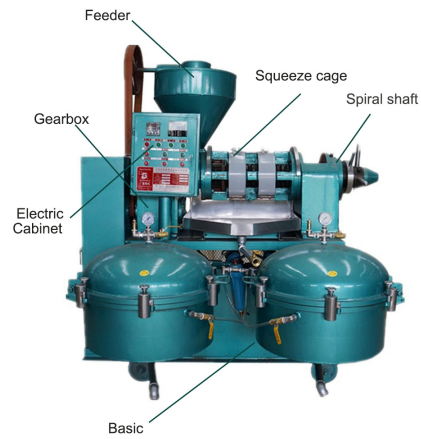
Step	Equipment	Function	Indicative parameter
1	Multi-seed cleaner and magnet	Removes foreign matter and protects the press	100-200 kg/h entry
2	Destoner and seed grader	Creates consistent clean press feed	Screens adjusted per seed
3	Conditioning bins	Equalizes seed moisture by recipe	Separate labeled lots
4	Temperature-controlled screw press	Extracts oil and discharges cake	60-120 kg/h seed-dependent
5	Settling tanks	Allows coarse solids to separate	Separate tank per active seed lot
6	Plate/pressure filter	Clarifies oil without chemical refining	Food-grade filter media
7	Clean-oil tank	Protects released oil before filling	Closed light-protected holding
8	Semi-automatic bottle filler	Fills, caps and codes selected packs	Two launch bottle 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



Made-in-China supplier reference: real small multi-seed hydraulic/cold-press equipment.



Made-in-China supplier reference: real combined screw press and pressure-filtration unit.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Traceable sesame, mustard, flax and sunflower seed by separate lot
- Food-grade filter cloths and cleaning materials
- Compatible dark or light-barrier bottles and caps
- Lined bags for separately identified press cake

Utilities & infrastructure

- Stable electricity matched to motors, controls and refrigeration
- Potable process water where product contact or cleaning occurs
- Washable food-grade rooms with drainage and pest control
- Segregated raw-material, packaging and finished-goods storage
- Steam, fuel, chilled water or compressed air only where specified

Quality, safety and environmental controls

- Confirm seed identity, moisture, foreign matter and contaminant plan
- Prevent allergen and flavor carryover between seeds
- Define and record cold-press temperature for each product
- Measure oil yield, cake residual oil and filtration loss
- Test moisture, peroxide/oxidation indicators and sensory quality
- Check fill weight, closure, code and protected storage

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 validates two seeds with one press and sells filtered unrefined oil. Solvent extraction, chemical refining, automatic bottling, building and oilseed working stock are excluded.

Component	Indicative range	Notes
Cleaning, grading and conditioning	US\$4k-10k	Two launch seeds
Controlled screw press	US\$6k-15k	60-120 kg/h seed-dependent
Settling, filtering and tanks	US\$4k-11k	No chemical refinery
Filling and quality tools	US\$3k-8k	Semi-automatic launch
Freight, installation and spares	US\$4k-10k	Press wear parts included
Indicative low-entry total	US\$21k-54k	Building, seeds and refining excluded

Implementation sequence

Phase 1	2-3 weeks	Confirm raw-material quality, products, capacity, packs and site utilities
Phase 2	2-4 weeks	Run representative Afghan raw-material and packaging trials
Phase 3	5-9 weeks	Manufacture, inspect and ship approved equipment
Phase 4	3-5 weeks	Install, train and validate process, hygiene and release controls

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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