

Apricot-Kernel Oil Pressing Line

Complete Turnkey Business Proposal



Supplier reference: real screw oil presses and feed elevators suitable for compact apricot-kernel oil extraction after trials.

40-80 kg/h starter kernel input	5.5-11 kW press motor range	2 settling tanks	4-6 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 line makes filtered apricot-kernel oil from clean, tested kernels. It is separate from stone cracking: the press must receive kernel lots with controlled shell, moisture, rancidity and safety status. Low-temperature pressing protects quality but reduces throughput and may reduce yield. The business must decide whether the oil is cosmetic, technical or edible because each route has different contaminant, refining, labeling and legal requirements.

Why this project fits Afghanistan

- Apricot kernels recovered locally can become a compact higher-value oil product.
- A small screw press can serve multiple seasonal kernel lots with documented cleanout.
- Filtered oil can supply qualified cosmetic or soap buyers before investing in refining.
- Press cake requires buyer-approved use and must not be assumed safe for food or feed.

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 40-80 kg/h kernel line with cleaning and inspection, small dryer, low-temperature screw press, settling tanks, plate filter and semi-automatic filler. Launch only one declared cosmetic or buyer-approved product route.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Filtered apricot-kernel oil	Buyer-approved moisture, acidity, peroxide value, color and contaminant limits	Qualified cosmetic, soap or technical buyers
Buyer-qualified edible oil	Only after legal safety assessment and any required refining	Licensed food ingredient buyers
Press cake	Segregated and released only for a tested permitted use	Approved extraction, fuel or other industrial users

A supplier reference lists a 6YL-68 screw press at 40 kg/h and 5.5 kW. Real throughput and oil recovery vary with kernel moisture, temperature and press setup. The offer must include a running test using comparable kernels, oil and cake mass balance, filtration rate, product-contact materials and cleaning procedure.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Kernel cleaner, magnet and inspection table	Removes shell, metal and defective kernels	Food-grade contact and lot segregation
2	Conditioning dryer	Controls kernel moisture before pressing	Low-temperature air and recorded moisture
3	Screw oil press	Expresses oil under controlled temperature	40-80 kg/h starter duty
4	Oil screen and transfer pump	Removes coarse solids and transfers crude oil	Low-shear sanitary pump
5	Covered settling tanks	Allows fine press solids to settle	Two alternating stainless tanks
6	Plate filter	Polishes settled oil to buyer clarity	Replaceable food-grade filter media
7	Clean-oil holding tank	Protects filtered released oil	Covered vessel with bottom drain
8	Semi-automatic bottle filler and capper	Packs oil with low oxygen and light exposure	One or two dark-bottle formats

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: real screw oil presses and feed elevators suitable for compact apricot-kernel oil extraction after trials.



Supplier reference: real edible-oil processing equipment illustrating tanks and polishing stages available for later expansion.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Clean traceable apricot kernels under buyer specification
- Food-grade filter media
- Dark glass or approved barrier bottles and closures
- Labels, tamper seals and cartons
- Approved cleaning chemicals

Utilities & infrastructure

- Stable electricity
- Clean low-temperature drying air
- Ventilation around the press
- Washable oil handling and filling area
- Cool dark raw-kernel and finished-oil storage

Quality, safety and environmental controls

- Confirm kernel identity, moisture, mold, rancidity and cyanogenic-compound risk
- Remove shell fragments and foreign material before pressing
- Record press temperature, kernel input, oil output and cake yield
- Test free fatty acid, peroxide value, moisture, impurities and buyer contaminants
- Prevent cross-contamination and oxidation during settling and filling
- Use only legally approved cosmetic, technical or edible claims for the tested product

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 receives already cracked and separated kernels and uses one small screw press, two settling tanks, plate filtration and semi-automatic filling. Stone cracking, edible-oil refining, laboratory certification, building and working capital are excluded.

Component	Indicative range	Notes
Kernel cleaning, inspection and conditioning	US\$3k-8k	Small shared preparation
Low-temperature screw press	US\$4k-10k	40-80 kg/h target
Settling, pumping and plate filtration	US\$4k-9k	Batch clarification
Semi-automatic filling and quality tools	US\$3k-7k	One bottle family
Freight, installation and spares	US\$3k-7k	Include press wear parts
Indicative low-entry total	US\$17k-41k	Kernel cracking, refining, laboratory, building and working capital excluded

Implementation sequence

Phase 1	2-3 weeks	Confirm kernel safety, target oil grade and buyer specification
Phase 2	2-4 weeks	Run pressing trials and approve yield and quality
Phase 3	4-7 weeks	Manufacture, inspect and ship compact line
Phase 4	2-4 weeks	Install, train and validate oil storage stability

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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