



Artificial Quartz Countertops & Slabs Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real artificial quartz countertops & slabs line equipment.

approved sample market gate	defined formats launch scope	performance test release gate	batch records traceability
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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

Produces engineered quartz slabs from selected quartz/silica aggregates, resin, pigments and additives through vacuum vibration/pressing, controlled cure, calibration, polishing, cutting and strict surface inspection.

Why this project fits Afghanistan

- Approve a physical sample and installation system.
- Launch only the selected formats and finishes.
- Keep material and quality records for each batch.

Sanaatchi delivery scope

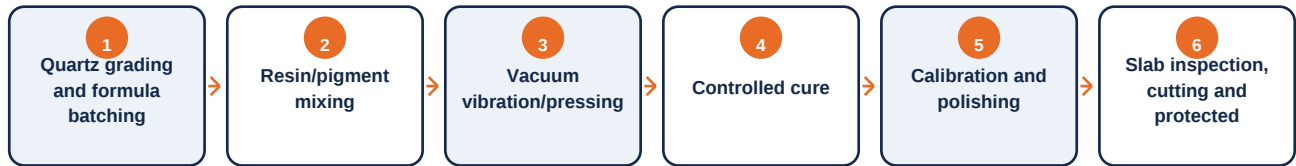
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Treat as medium industrial engineered-stone manufacturing. Validate formula, resin handling, vacuum compaction, surface quality, flex/strength performance and safe slab handling before investment.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Engineered quartz slabs/countertops	Quartz grading, resin ratio, slab thickness, void level, flex/strength, surface polish, colour consistency and fabrication performance	Kitchen fabricators, hotels, housing, commercial interiors and stone distributors

Supplier scope, actual materials, performance targets and acceptance sample must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Aggregate batching/mixer	Controls quartz formula	Approved grading/resin ratio
2	Vacuum vibropress	Compacts engineered slab	Void/density target
3	Curing oven/racks	Develops resin system	Controlled cure recipe
4	Calibrator/polisher	Produces finished face	Flatness/gloss check

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 artificial quartz countertops & slabs line equipment.



Made-in-China supplier reference: second real machine configuration for artificial quartz countertops & slabs line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Graded quartz/silica, specified resin and hardener, pigments, additives, abrasives, protective film and slab packaging

Utilities & infrastructure

- Stable power, extraction/ventilation and dry covered production/storage
- Guarded cutting/mixing equipment, documented maintenance and essential spares

Quality, safety and environmental controls

- Control silica dust and resin safety with extraction/PPE
- Check thickness, density, voids, strength, flatness and polish against samples
- Confirm fabrication tooling, transport and installation for heavy slabs

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

Artificial quartz is a controlled engineered-stone process; it needs dust safety, resin control, vacuum compaction and slab-quality testing.

Component	Indicative range	Notes
Batching, vacuum pressing and cure	US\$450k-1.4m	Engineered-stone core process
Calibration, polish and handling	US\$250k-850k	Slab-quality/handling scope
Indicative total	US\$800k-2.4m	Building, cranes and formula development excluded

Implementation sequence

Phase 1	2-5 weeks	Confirm product specification, representative raw material, buyer, capacity, site and utilities
Phase 2	3-7 weeks	Run supplier trials with the buyer material and freeze the balanced machine, tooling and utility scope
Phase 3	8-22 weeks	Manufacture or refurbish, inspect, document and ship the contracted equipment
Phase 4	3-12 weeks	Install, commission, train operators and pass material-specific acceptance tests

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

- <https://www.alibaba.com/showroom/artificial-stone-production-line.html>
- https://www.made-in-china.com/products-search/hot-china-products/Artificial_Stone_Machine.html