

Engineered-Marble Slabs Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real engineered-marble 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

Manufactures engineered-marble slabs from graded marble powder/chips, resin, pigments and selected fillers using controlled batching, vacuum compaction or casting, cure, calibration, polishing and slab 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

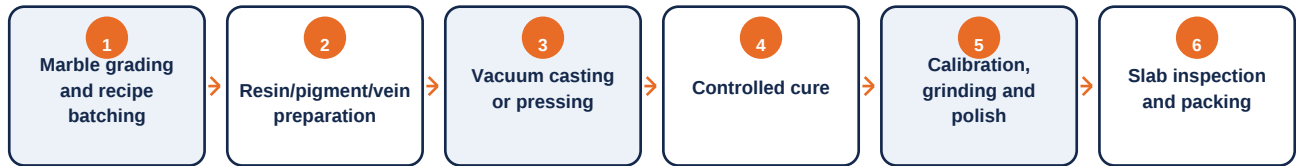
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Select a tested marble/resin formulation and target slab sizes before investment. Verify colour/vein repeatability, resin cure, flatness, polish, strength and handling throughout the fabrication chain.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Engineered-marble slabs	Marble powder/chip grading, resin ratio, colour/vein consistency, thickness, density, flatness, polish and fabrication strength	Countertop fabricators, hotels, housing, retail 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	Marble batching/mixer	Controls aggregate/resin blend	Approved formula
2	Vacuum casting/press unit	Forms dense slab	Void/colour control
3	Curing system	Stabilises resin matrix	Cure recipe recorded
4	Calibration/polish line	Finishes slab face	Flatness/gloss test

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 engineered-marble slabs line equipment.



Made-in-China supplier reference: second real machine configuration for engineered-marble slabs line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Graded marble powder/chips, specified resin/hardener, pigments, vein materials, abrasives, protective film and 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 mineral dust and resin exposure
- Check colour/vein consistency, thickness, voids, cure and polish
- Confirm heavy-slab lifting, transport and fabrication compatibility

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

Engineered marble is resin-bound stone, not simply pressed marble powder; cure, colour repeatability and slab integrity are the commercial controls.

Component	Indicative range	Notes
Mixing, vacuum forming and cure	US\$350k-1.1m	Engineered-marble process
Calibration, polish and handling	US\$200k-700k	Slab finish scope
Indicative total	US\$650k-1.9m	Building/cranes/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

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