

Decorative Cement & Stone Mosaics Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real decorative cement & stone mosaics 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 decorative cement-and-stone mosaic tiles, inserts and small panels using graded local stone chips, coloured cement face mixes and controlled moulding or hydraulic pressing, cure, grinding/polishing, inspection and packing.

Why this project fits Afghanistan

- Approve a physical product sample and its applicable performance standard.
- Launch with a limited, high-demand format and documented mould/tool setting.
- Keep batch, firing/cure and release records for every production lot.

Sanaatchi delivery scope

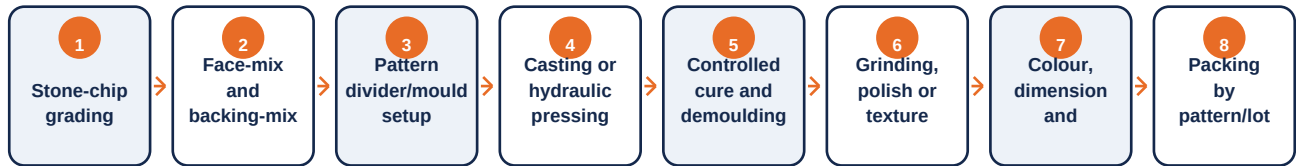
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Launch with a small family of high-demand patterns and colours. Screen a compact mixer, pigment dosing, mould/press system, vibration or hydraulic compaction, cure racks and wet finishing; approve slip, absorption, colour and edge samples before expanding patterns.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Decorative cement and stone mosaics	Pattern, dimensions, chip blend, pigment colour, thickness, polish/texture, absorption, strength and edge quality	Homes, mosques, hotels, retail projects, tile shops and installers

Supplier scope, raw-material suitability, installation requirements and acceptance sample must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Chip screen and batch mixer	Controls aggregate and cement recipes	Colour-coded mix records
2	Pattern moulds and divider inserts	Creates mosaic designs	Limited launch pattern family
3	Hydraulic press or vibration table	Compacts tile layers	Thickness/strength setting
4	Wet grinder/polisher	Exposes stone and finishes face	Finish sample matched
5	Cure racks and QC bench	Stabilises and releases tiles	Absorption/edge/colour 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 decorative cement & stone mosaics line equipment.



Made-in-China supplier reference: second real machine configuration for decorative cement & stone mosaics line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Graded local stone chips, white/grey cement, pigments, fine sand, water, release agent, polishing abrasives, sealers where specified and packaging

Utilities & infrastructure

- Stable three-phase electricity, covered raw-material storage and protected finished-goods space
- Guarded machinery, documented maintenance, essential spares and defined dust/heat controls

Quality, safety and environmental controls

- Approve each pattern, pigment batch and stone-chip sample before production
- Check thickness, dimensions, edge integrity, surface finish and colour repeatability
- Test strength, water absorption, abrasion and slip performance for the intended installation

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

Mosaic value comes from repeatable pattern alignment, chip distribution and durable surface finish-not from using more colours without controlled recipes and approved samples.

Component	Indicative range	Notes
Mixing, pigment dosing and pattern moulds	US\$4k-16k	Small pattern-based launch
Press/vibration, cure and wet finishing	US\$9k-32k	Selected tile formats
Testing, packing, freight and installation	US\$5k-18k	Workshop-based operation
Indicative entry total	US\$18k-66k	Building and inventory 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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