

Encaustic Patterned Cement Tiles Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real encaustic patterned cement tiles 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 patterned encaustic cement tiles by dividing pigment face mixes in a metal pattern mould, applying a dry backing layer, hydraulic pressing, controlled wet cure, drying, dimensional inspection, optional protective treatment 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

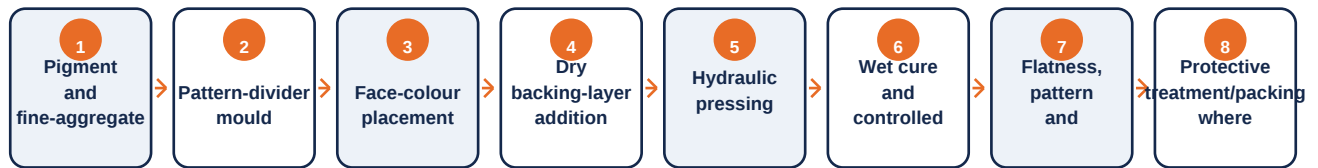
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Begin with four to eight saleable patterns, one standard size and proven pigment recipes. Use a small hydraulic press with accurate divider moulds and controlled cure; market the tiles only after testing colour stability, edge quality, absorption, wear and installation samples.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Encaustic patterned cement tiles	Pattern registration, size, thickness, pigment depth, cement strength, absorption, abrasion, flatness and sealing/installation requirements	Interior floors, cafés, hotels, heritage renovation, boutique retail and residential projects

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Fine mixer and pigment scales	Builds repeatable colour batches	Recipe and colour control
2	Encaustic divider moulds	Separates face colours precisely	4-8 starter patterns
3	Hydraulic tile press	Densifies face and backing layers	Stable thickness/pressure
4	Curing racks and drying area	Develops strength without warp	Recorded cure cycle
5	QC/packing station	Protects matched tile lots	Pattern/flatness/absorption 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 encaustic patterned cement tiles line equipment.



Made-in-China supplier reference: second real machine configuration for encaustic patterned cement tiles line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- White/grey cement, marble powder or fine sand, mineral pigments, water, release agent, sealers where specified, divider-mould spares and protective 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 master tiles for each pattern and document pigment formula
- Check divider alignment, thickness, flatness, corner quality and colour bleed
- Test cure strength, absorption, abrasion and sealer/adhesive compatibility before release

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

Encaustic tiles are a pattern-registration product. A low-cost press can work, but accurate divider moulds, curing discipline and master samples protect the visible finished quality.

Component	Indicative range	Notes
Mixing, colour dosing and divider moulds	US\$3k-12k	Limited design family
Hydraulic press, cure and handling	US\$7k-24k	One standard tile size
Testing, packing, freight and setup	US\$4k-14k	Sample-led launch
Indicative entry total	US\$14k-50k	Workshop and tile stock 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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- https://www.made-in-china.com/products-search/hot-china-products/Cement_Tile_Making_Machine.html