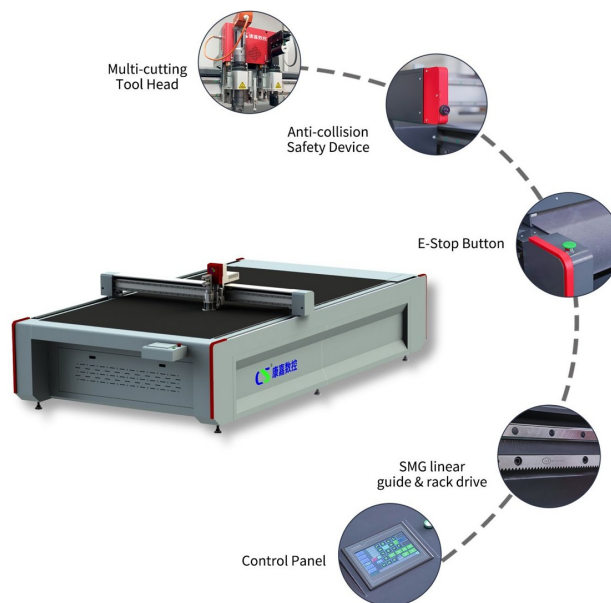


EPS-Cement Lightweight Wall Panels Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real eps-cement lightweight wall panels line equipment.

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

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 EPS-cement lightweight wall panels by EPS/core preparation, cementitious slurry batching, mesh or reinforcement placement, mould/continuous forming, curing, trimming, joint preparation and density/strength checks.

Why this project fits Afghanistan

- Approve a physical sample and applicable standard.
- Launch with a defined product range and documented tool settings.
- 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

Confirm local cement, EPS density, panel geometry, fixing/joint system and tested fire/acoustic/strength performance before launch. Start with one wall panel thickness and a controlled cure rather than a broad product range.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
EPS-cement lightweight wall panels	Panel thickness/density, EPS/core proportion, cementitious skin, reinforcement, tongue-and-groove or joint detail, strength, fire/acoustic claim and fixing system	Housing, partitions, schools, clinics, offices, compounds and contractors

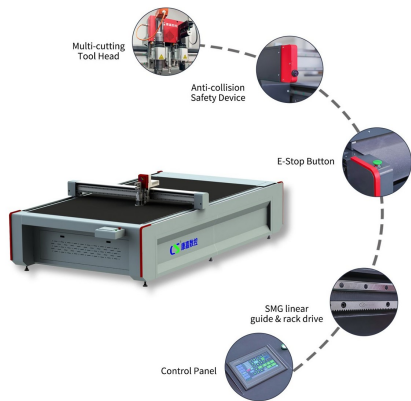
Supplier scope, materials, utilities, installation requirements and acceptance criteria must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	EPS preparation/core station	Prepares specified lightweight core	Density/size control
2	Batch mixer	Makes cementitious skin/slurry	Water/cement formulation
3	Panel mould/press line	Forms reinforced panels	Thickness/face quality
4	Curing and cutting cell	Stabilises panels	Cure/moisture/profile
5	Panel test fixture	Releases product	Density/strength/fit

Equipment models are indicative and will be matched to the selected capacity, local raw-material tests, available utilities, and preferred automation level.

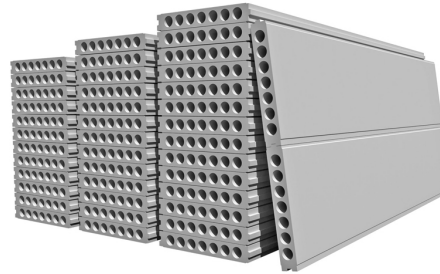
Reference Equipment Gallery



Made-in-China supplier reference: real eps-cement lightweight wall panels line equipment.

TIANYI MACHINERY
TIANYI SHARES (Stock Code: 201648)

19 years experience



Made-in-China supplier reference: second real machine configuration for eps-cement lightweight wall panels line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Cement, EPS beads or core, sand/lightweight fillers as specified, mesh/reinforcement, water, additives, release agent, joint materials and packing

Utilities & infrastructure

- Stable electricity, covered raw-material storage and protected finished-goods handling
- Guarded equipment, documented maintenance, essential spares and product-specific safety controls

Quality, safety and environmental controls

- Control EPS density, cement mix, panel thickness, reinforcement position, cure and joint geometry
- Test density, flexural/compressive behaviour, fixing pull-out, water response and declared fire/acoustic performance
- Supply matching joint/fixing instructions; do not claim performance without test evidence

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

EPS-cement panels depend on density, cure and joint/fixing design. The product must be sold as a tested wall system, not a lightweight board alone.

Component	Indicative range	Notes
EPS/core, batching and panel forming	US\$70k-250k	One thickness/controlled cure
Moulds, curing, cutting and QC	US\$35k-140k	Panel-system release
Utilities, setup and trials	US\$25k-90k	Formula/performance validation
Indicative project total	US\$130k-480k	Building and raw-material 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

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

- <https://www.alibaba.com/showroom/light-gauge-steel-frame-machine.html>
- https://www.made-in-china.com/products-search/hot-china-products/Precast_Concrete_Panel_Machine.html