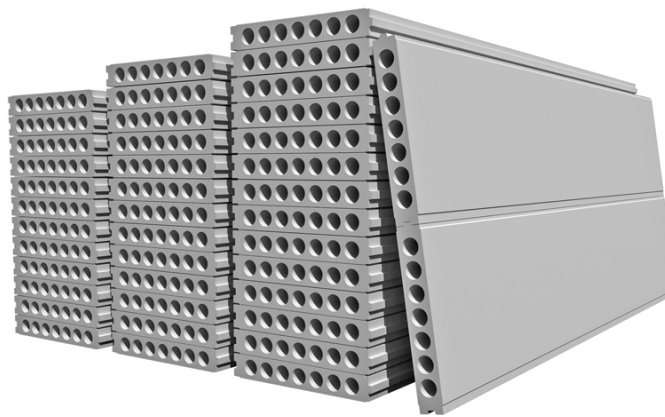




Precast-Concrete Wall Panels Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real precast-concrete wall panels line equipment.

approved sample market gate	defined range 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 precast concrete wall panels through engineered mould preparation, reinforcement and inserts, concrete batching, casting/vibration, controlled curing, demoulding, finishing, lifting and dimensional/strength release.

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

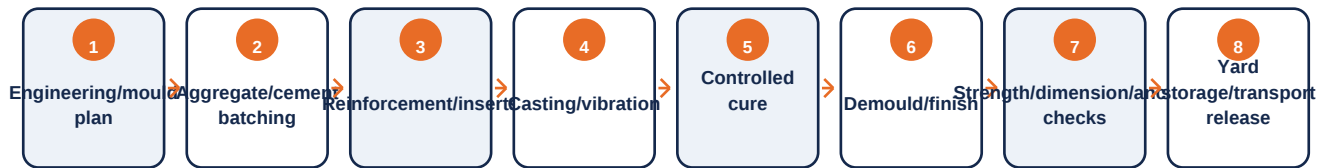
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Use engineered panel drawings, moulds and lifting/connection details. Confirm concrete mix, reinforcement, embedded services, transport, crane handling, panel stability and installation sequence before committing to a panel yard.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Precast concrete wall panels	Panel dimensions/thickness, concrete class, reinforcement, insulation or sandwich option, inserts, lifting anchors, connection detail, surface finish and structural design	Housing, compounds, warehouses, schools, commercial buildings, infrastructure and precast contractors

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

Core Equipment Schedule

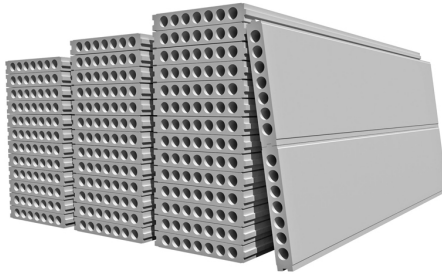
Step	Equipment	Function	Indicative parameter
1	Batching/mixer plant	Controls concrete mix	Concrete class/dosing
2	Mould beds/tilt tables	Forms panels accurately	Panel geometry/finish
3	Rebar/inserts station	Prepares engineered reinforcement	Cover/anchor placement
4	Curing/handling system	Builds safe strength	Cure/lifting timing
5	Panel QC/lift fixture	Releases panels	Strength/anchor/dimension

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

TIANYI MACHINERY
TIANYI SHARES (Stock Code: 201648)

\$ 19 years
experience



Made-in-China supplier reference: real precast-concrete wall panels line equipment.

TIANYI MACHINERY
TIANYI SHARES (Stock Code: 201648)

\$ 19 years
experience



Made-in-China supplier reference: second real machine configuration for precast-concrete 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, aggregates, water, admixtures, reinforcement, insulation where specified, embedded inserts, lifting anchors, release agents and curing materials

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

- Approve structural drawings, lifting plan and connection details before casting
- Control concrete strength, cover, reinforcement, inserts, dimensions, surface finish and cure history
- Test representative panels and verify lifting anchors, transport bracing and site installation sequence

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

Precast wall panels need structural design, lifting discipline and installation planning. A casting bed alone is not a safe panel business.

Component	Indicative range	Notes
Batching, moulds and reinforcement handling	US\$180k-650k	Engineered panel yard
Curing, lifting and QC systems	US\$80k-300k	Safe release/handling
Site setup, trials and spares	US\$60k-220k	Design-led commissioning
Indicative project total	US\$320k-1.17m	Land, building, crane and transport 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/Precast_Concrete_Panel_Machine.html