



Precast Concrete Stair Treads Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real precast concrete stair treads line equipment.

approved sample market gate	selected moulds launch scope	cure 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 stair treads, risers and landing units from controlled cement/aggregate mix using prepared moulds, reinforcement where designed, vibration, controlled curing, demoulding, inspection and protected packing.

Why this project fits Afghanistan

- Approve a physical sample and the installation/structural detail.
- Start with the selected mould family only.
- Keep mix, cure and dimensional inspection records.

Sanaatchi delivery scope

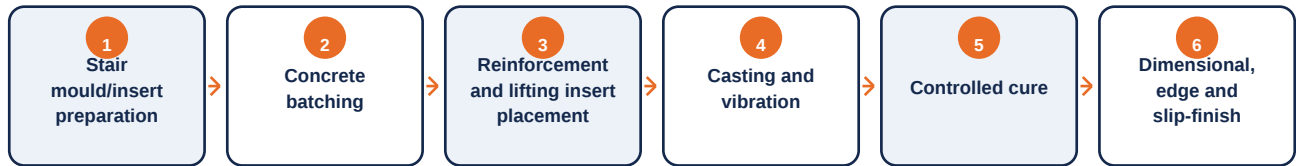
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Launch with approved moulds and one tested concrete mix. Confirm dimensions, reinforcement, cure, lifting/installation details and local contractor demand before scaling.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
precast concrete stair treads, risers and landing units	Dimensions, mix density, reinforcement where designed, cure, surface finish, strength, edge quality and installation compatibility	Builders, precast contractors, housing compounds, retailers and local infrastructure projects

Confirm mould scope, reinforcement, concrete recipe, curing and acceptance sample before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Concrete mixer	Prepares tread mix	Strength/finish recipe
2	Tread/riser moulds	Forms consistent geometry	Rise/run/edge profile
3	Vibration/cure beds	Compacts and cures units	Cure-controlled strength
4	Handling/QC station	Checks installation-ready treads	Dimension/insert 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

TIANYI MACHINERY
TIANYI SHARES (Stock Code: 201648)

19 years
experience



Made-in-China supplier reference: real precast concrete stair treads line equipment.



Made-in-China supplier reference: second real machine configuration for precast concrete stair treads line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Cement, graded sand/aggregate, water, approved admixtures, pigments/release agent where used, reinforcement/fixtures where designed and packaging

Utilities & infrastructure

- Reliable water/power, covered curing and level mould beds
- Guarded vibration/lifting tools, drainage and documented maintenance

Quality, safety and environmental controls

- Check rise/run dimensions, straightness, edge condition and surface finish
- Use engineered reinforcement/lifting inserts for every heavy tread
- Confirm supporting structure, anti-slip finish, connections and 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

Stair treads are structural walking elements: dimension, reinforcement, handling and anti-slip surface must be designed and checked.

Component	Indicative range	Notes
Mixing, moulds and vibration	US\$10k-35k	Small precast tread scope
Curing, handling and finish	US\$10k-40k	Heavy-piece QC scope
Indicative entry total	US\$25k-85k	Engineering/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

- <https://www.alibaba.com/showroom/precast-concrete-moulding-machine.html>
- https://www.made-in-china.com/products-search/hot-china-products/Precast_Concrete_Mould.html