



Precast Staircases & Landings Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real precast staircases & landings 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 engineered precast stair flights and landings through mould preparation, reinforcement/inserts, concrete casting, vibration, controlled curing, demoulding, lifting, slip-finish and dimensional 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

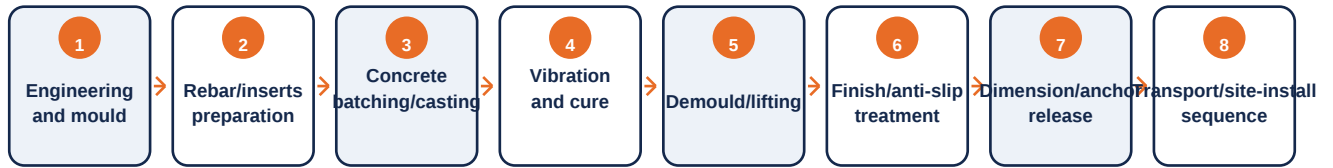
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Confirm structural drawings, mould geometry, reinforcement, lifting anchors, connection details, site crane/installation sequence and approved anti-slip finish before starting a stair-precast yard.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Precast staircases and landings	Flight/landing geometry, concrete class, reinforcement, lifting anchors, connection detail, tread/riser tolerance, anti-slip finish and structural design	Apartments, schools, hospitals, compounds, commercial buildings 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	Stair moulds/tilt tables	Forms accurate flights	Tread/riser geometry
2	Rebar/insert station	Places engineered reinforcement	Cover/anchor location
3	Concrete mixer/vibrator	Casts dense units	Concrete class/compaction
4	Curing/lifting system	Releases safe strength	Cure/lift timing
5	Stair QC fixture	Checks fit and safety	Dimensions/finish/anchors

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 staircases & landings line equipment.



Made-in-China supplier reference: second real machine configuration for precast staircases & landings line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Cement, aggregate, steel reinforcement, admixtures, lifting anchors, embedded connections, release agent, curing materials and packing/transport supports

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 reinforcement, lifting anchors, stair geometry, concrete strength, cure and anti-slip finish
- Check landing/flight connections, lifting plan, transport supports and installation sequence
- Release only from approved structural drawings and representative strength/anchor checks

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 stairs are lifting and connection products. Perfect tread appearance is irrelevant if anchors, geometry or site installation are not controlled.

Component	Indicative range	Notes
Moulds, batching and reinforcement handling	US\$100k-350k	Engineered stair modules
Curing, lifting and QC	US\$45k-170k	Safe stair handling
Setup, trials and spares	US\$30k-100k	Design-led release
Indicative project total	US\$175k-620k	Yard, 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

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/mould-making-machine.html>
- https://www.made-in-china.com/products-search/hot-china-products/Silicone_Mold_Making.html