

Concrete & Clay Roof-Tile Moulds Workshop

Complete Turnkey Business Proposal



Made-in-China supplier reference: real concrete & clay roof-tile moulds workshop equipment.

approved drawing market gate	defined mould family launch scope	trial cast 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

Makes steel, rubber or composite roof-tile moulds/tools for concrete or clay lines through profile engineering, pattern/tool fabrication, texture and water-channel finishing, fit checks and repeated forming/cure-cycle validation.

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

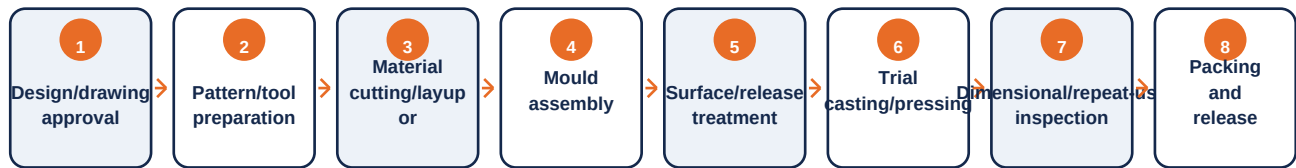
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Separate mould design by material and forming method. Confirm roof profile, overlap, water channels, thickness, press/extrusion compatibility, shrinkage, coating/glaze needs and tile-system fit before producing a family.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Concrete and clay roof-tile moulds	Tile profile, overlap/water channel, material/forming method, mould/tool material, thickness, shrinkage allowance, texture, fit and cycle life	Concrete tile lines, clay-tile kilns, roofing contractors, housing, retailers and construction-material producers

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Profile/master bench	Creates tile geometry	Overlap/drainage accuracy
2	Tool cutting/forming cell	Builds mould faces	Profile/shrinkage allowance
3	Texture/release station	Finishes tile face	Surface/water channel
4	Fit gauge	Checks tile system	Interlock/stacking tolerance
5	Forming trial bench	Validates tool use	Release/profile repeatability

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 concrete & clay roof-tile moulds workshop equipment.



Made-in-China supplier reference: second real machine configuration for concrete & clay roof-tile moulds workshop.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Steel/rubber/composite mould materials, masters, release coating, tool steel/fasteners, abrasives and packaging

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 profile, water channels, overlap, thickness, shrinkage allowance, face texture and fit
- Trial form target concrete or clay mix; inspect release, drying/firing movement where applicable and repeated cycles
- Keep mould tooling matched to the specific press, extrusion or casting process

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

Roof tiles fail at overlap and drainage. Moulds must be checked as a full roof-cover system, not as attractive individual shapes.

Component	Indicative range	Notes
Profile/tool fabrication equipment	US\$3k-14k	Limited tile profiles
Fit gauges, finishing and trials	US\$2k-12k	System compatibility
Setup/material samples	US\$1k-6k	Concrete/clay trials
Indicative entry total	US\$6k-32k	Workshop and masters 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/concrete-block-mould.html>
- https://www.made-in-china.com/products-search/hot-china-products/Precast_Concrete_Mould.html