

PU Rubber Artificial-Stone Moulds Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real pu rubber artificial-stone moulds 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

Makes polyurethane-rubber artificial-stone moulds from approved masters through accurate polyol/isocyanate metering, pigment and filler preparation where specified, vacuum/degas control, casting, cure, demoulding, trimming and texture/repeat-cast inspection.

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

Start with one compatible PU system and a limited stone texture family. Confirm shore hardness, pot life, moisture control, master release, cure, worker chemical safety and the intended cement/polymer casting material before purchasing larger dispensing equipment.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
PU rubber artificial-stone moulds	PU system/shore hardness, mix ratio, pot life, mould thickness, texture/master, tear strength, cure, moisture limit, release agent and repeat-cast cycles	Artificial stone, façade veneer, garden décor, concrete panels, gypsum décor and landscape-product workshops

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Dry preparation station	Prepares master and mould box	Moisture/release control
2	PU meter/mixer	Controls reactive components	Ratio/pot-life accuracy
3	Vacuum/degas chamber	Limits bubbles	Degassing control
4	Curing rack/oven	Stabilises elastomer	Time/temperature record
5	Trial casting bench	Checks mould use	Texture/tear release

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

 **Haineng**



Made-in-China supplier reference: real pu rubber artificial-stone moulds line equipment.

 **Haineng**



Made-in-China supplier reference: second real machine configuration for pu rubber artificial-stone moulds line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Polyol/isocyanate PU system, pigment/filler where approved, masters, release agents, mould-box materials, cleaning consumables, PPE and sealed 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

- Keep components dry and verify mix ratio, pot life, cure and mould thickness
- Check bubbles, texture fidelity, tear strength, shrinkage, release and repeated casting performance
- Use chemical PPE, local ventilation, sealed storage and documented spill/waste procedures

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

PU moulds are reactive chemical products. Moisture, wrong ratio or insufficient cure can ruin texture, tear resistance and every artificial-stone casting.

Component	Indicative range	Notes
Dry prep, metering and mixing	US\$4k-15k	Small texture family
Degas, cure and trimming equipment	US\$3k-14k	Reactive resin control
PPE, trials and setup	US\$2k-8k	Sample release testing
Indicative entry total	US\$9k-37k	Workshop and master-pattern cost 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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