

Fibreglass/FRP Mould Workshop

Complete Turnkey Business Proposal



Made-in-China supplier reference: real fibreglass/frp mould workshop equipment.

approved sample market gate	defined range launch scope	performance test release gate	batch records traceability
--	---	--	---

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

Builds rigid FRP production moulds from masters through plug finishing, release system preparation, gelcoat application, fibreglass/resin layup, controlled cure, frame reinforcement, trimming, polishing and trial-part 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

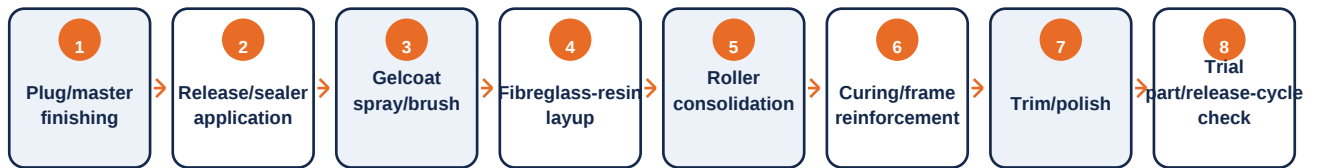
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Use ventilated, controlled layup space and launch with a defined mould size. Confirm resin/gelcoat compatibility, glass schedule, cure, frame stiffness, surface class, release system and styrene/fire/worker-safety controls before scaling.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Fibreglass/FRP production moulds	Master surface class, gelcoat, resin system, fibreglass schedule, mould thickness, stiffening frame, cure, release system, surface polish and expected production cycles	Decorative panels, artificial stone, concrete/precast, boats, automotive trim, sanitaryware and composite workshops

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

Core Equipment Schedule

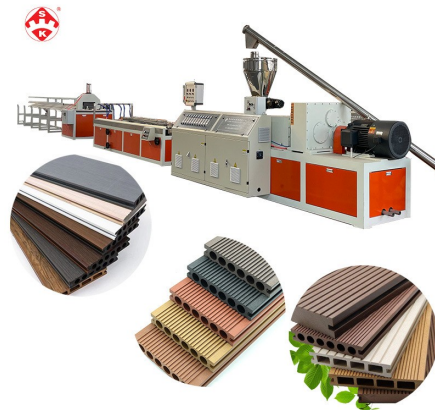
Step	Equipment	Function	Indicative parameter
1	Plug finishing station	Prepares mould master	Surface class
2	Gelcoat/layup station	Builds face and laminate	Resin/glass schedule
3	Roller/consolidation tools	Removes voids	Air/laminate control
4	Curing/frame bench	Stiffens mould	Cure/frame rigidity
5	Polish/trial station	Releases production mould	Surface/demould test

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 fibreglass/frp mould workshop equipment.



Made-in-China supplier reference: second real machine configuration for fibreglass/frp mould workshop.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Fibreglass mat/fabric, compatible resin, gelcoat, catalyst, release wax/PVA, core/frame materials, rollers, abrasive/polish materials and PPE

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 resin catalyst, gelcoat thickness, fibreglass schedule, voids, cure and rigid backing frame
- Check mould flatness, surface print-through, edge trim, release and trial-part finish
- Provide ventilation, PPE, resin-storage and fire controls; manage styrene exposure and waste

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

FRP mould quality comes from the master, laminate schedule and safe resin control. Surface defects and weak frames multiply across every part produced.

Component	Indicative range	Notes
Plug finishing and layup equipment	US\$3k-12k	Small rigid mould workshop
Curing, trim, polish and ventilation	US\$4k-18k	Resin safety/surface quality
Trial materials, PPE and setup	US\$2k-8k	Mould-size dependent
Indicative entry total	US\$9k-38k	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

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