

UPVC-Window Fabrication Workshop

Complete Turnkey Business Proposal



Made-in-China supplier reference: real upvc-window fabrication workshop 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

Fabricates UPVC windows from purchased profile systems, reinforcement steel, insulated or single glass and hardware through profile cutting, steel reinforcement preparation, V-weld cleaning, drainage/lock machining, frame/sash welding, hardware assembly, glazing, operation checks and packing.

Why this project fits Afghanistan

- Approve an installed sample and buyer acceptance criteria.
- Launch with a defined product family and documented tool settings.
- Keep material and quality records for every 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

Launch with one proven UPVC profile system, compatible reinforcement and one welding-cleaning cell. Supplier trials must prove corner strength, drainage, gasket fit, hardware compatibility, glazing thickness and thermal expansion allowances for local conditions.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
UPVC windows	Profile chamber/system, steel reinforcement, welded-corner strength, glazing thickness, hardware, drainage, gasket seal, operation and installation tolerance	Housing, offices, schools, shops, contractors and window retailers

Supplier scope, site utilities, test requirements and acceptance sample must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	UPVC double-head saw	Cuts profiles and reinforcement accurately	Profile system settings
2	Welding and corner-cleaning cell	Forms clean strong frame corners	Temperature/time/pressure record
3	Drainage/lock router	Machines required openings	Hardware/drainage templates
4	Assembly/glazing tables	Completes finished windows	Gasket/glass fit
5	QC test tools	Releases operable frames	Corner strength/squareness 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



Made-in-China supplier reference: real upvc-window fabrication workshop equipment.



Made-in-China supplier reference: second real machine configuration for upvc-window fabrication workshop.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- UPVC profiles, galvanised reinforcement steel, glass, gaskets, hardware, screws, sealants, welding-teflon spares and protective packaging

Utilities & infrastructure

- Stable electricity, covered material storage and protected finished-goods handling
- Guarded equipment, essential spares, documented maintenance and product-specific safety controls

Quality, safety and environmental controls

- Approve profile/reinforcement/hardware combinations before production
- Control weld temperature/time/pressure and inspect cleaned corners
- Check drainage, sash operation, gasket compression, glass fit and installation expansion allowance

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

A UPVC window line is only as good as its selected profile/reinforcement system. Poor welds, drainage or installation gaps cannot be fixed by later hardware adjustment.

Component	Indicative range	Notes
Cutting, machining, welding and cleaning cell	US\$12k-42k	One UPVC system
Assembly, glazing and quality tools	US\$5k-18k	Workshop completion scope
Freight, setup, tooling and spares	US\$5k-18k	Profile-specific commissioning
Indicative entry total	US\$22k-78k	Workshop, profiles and glass stock 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/upvc-window-making-machine.html>
- https://www.made-in-china.com/products-search/hot-china-products/Upvc_Window_Making_Machine.html