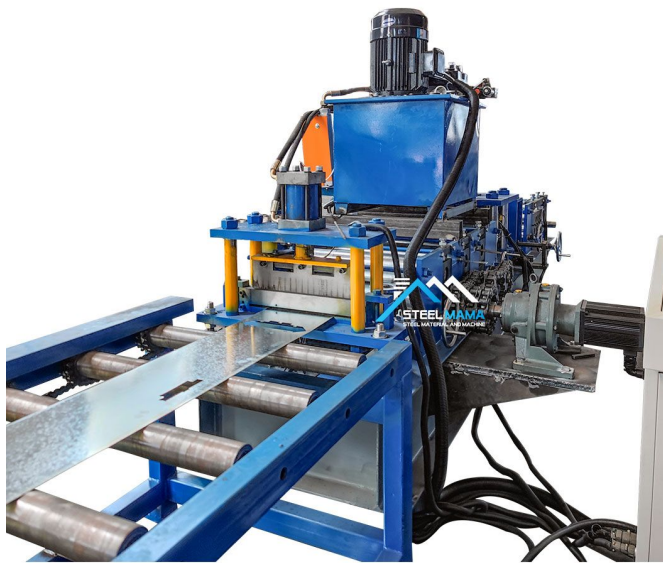


Aluminium-Window Fabrication Workshop

Complete Turnkey Business Proposal



Made-in-China supplier reference: real aluminium-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 aluminium sliding, casement and fixed windows from purchased profiles and glass through cut optimisation, double-head sawing, punching/milling, drainage machining, hardware assembly, glazing, squareness checks, water/operation testing and protected 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

Start with the locally demanded profile system and a small machine cell: precision double-head saw, copy router/end mill, punch, assembly tables and glazing tools. Confirm section dimensions, gasket/hardware supply, glass thickness and installation details before buying.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Aluminium windows	Profile system, frame/sash dimensions, glazing thickness, drainage, hardware, gasket compression, squareness, air/water performance and installation detail	Homes, offices, shops, contractors, window retailers and renovation projects

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Double-head saw	Cuts aluminium profiles accurately	Profile-system angles/lengths
2	Copy router/end mill/punch	Machines locks, drainage and joints	System-specific tooling
3	Assembly tables and crimp tools	Builds frames and sashes	Squareness/joint control
4	Glazing and hardware bench	Completes installed units	Glass/gasket compatibility
5	Window test tools	Releases finished assemblies	Operation/water/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 aluminium-window fabrication workshop equipment.

河北锻海铁艺设备装饰铁件有限公司



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

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Purchased aluminium profiles, glass, gaskets, hardware, screws, sealants, cutting blades, protective tape and 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 one installed sample for each profile system
- Check cut accuracy, drainage, sash/frame squareness, hardware operation and glass fit
- Confirm anchor layout, sealant, water shedding and site installation before release

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

Window fabrication is an assembly workshop: accuracy, drainage, hardware and installation quality matter more than the number of machines.

Component	Indicative range	Notes
Saw, machining and punch cell	US\$6k-25k	Small workshop configuration
Assembly, glazing and test tools	US\$4k-16k	One profile system basis
Freight, setup, tooling and initial spares	US\$4k-14k	Operator training included
Indicative entry total	US\$14k-55k	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

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