

Aluminium Curtain-Wall Fabrication Workshop

Complete Turnkey Business Proposal

河北锻海铁艺设备装饰铁件有限公司



Made-in-China supplier reference: real aluminium curtain-wall 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 unitised or stick aluminium curtain-wall components from engineered profiles, glass, gaskets and hardware through cut-list control, precision cutting/machining, frame assembly, pressure-plate/cover preparation, glazing, sealant work, dry fit, quality checks and protected packing.

Why this project fits Afghanistan

- Confirm an installed sample and applicable performance standard.
- Launch with a defined product family and documented process settings.
- Keep material and release records for each batch.

Sanaatchi delivery scope

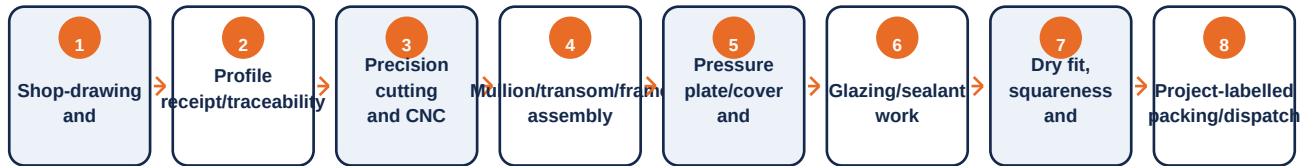
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Start with one engineered stick-system family and project-specific jigs. This workshop must work from approved façade drawings and structural calculations; confirm profile system, anchors, drainage, pressure equalisation, glass, sealants and mock-up test requirements before production.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Aluminium curtain-wall components	Profile system, mullion/transom geometry, glass make-up, pressure equalisation, drainage, anchors, gaskets, sealants, tolerances and project test requirements	Commercial façades, offices, hotels, malls, hospitals and façade contractors

Supplier scope, glass compatibility, site utilities and acceptance criteria must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Precision saw and CNC router	Cuts/machines façade profiles	Project-system tooling
2	Assembly jigs and torque tools	Builds controlled frames	Tolerance/fastener record
3	Gasket/glazing station	Completes approved façade details	Glass/sealant compatibility
4	Mock-up/QC tools	Verifies assembly readiness	Drainage/fit/test documentation
5	Protected project packing	Delivers traceable components	Zone/floor/element coding

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

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Made-in-China supplier reference: real aluminium curtain-wall fabrication workshop equipment.



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

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Engineered aluminium profiles, glass/IGUs, gaskets, pressure plates, covers, fasteners, approved sealants, anchors, protective film and project-specific packing

Utilities & infrastructure

- Stable industrial power, clean covered glass storage and protected handling routes
- Guarded machinery, glass-breakage procedures, PPE, maintenance plan and critical spares

Quality, safety and environmental controls

- Fabricate only against approved shop drawings and structural design
- Check profile machining, frame diagonals, fastener torque, drainage and pressure-equalisation paths
- Confirm façade mock-up, glass/sealant compatibility, anchors and installation tolerances before project 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

Curtain-wall fabrication is engineering-led. The workshop must never replace façade structural design, mock-up testing or project installation controls.

Component	Indicative range	Notes
Precision cutting/CNC and project jigs	US\$45k-180k	Curtain-wall workshop cell
Assembly, glazing and QC tools	US\$30k-120k	Project-system dependent
Freight, setup, testing and spares	US\$35k-140k	Mock-up and design coordination
Indicative total	US\$110k-440k	Workshop, profiles/glass and project site works 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/glass-processing-machine.html>
- https://www.made-in-china.com/products-search/hot-china-products/Glass_Processing_Machine.html