

MDF Membrane & CNC-Routed Doors Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real mdf membrane & cnc-routed doors 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

Produces routed MDF membrane doors by board cutting, CNC route design, sanding, vacuum membrane pressing with PVC film, trim, hardware drilling, inspection and protective packing.

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 a limited routed design family and a compatible MDF, PVC film and adhesive/vacuum process. Confirm film stretch, routing depth, adhesion, heat settings, edge wrap and kitchen/door moisture exposure before purchasing a larger press.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
MDF membrane and CNC-routed doors	MDF grade/thickness, routed design, PVC film, adhesive, vacuum/heat cycle, edge wrap, surface quality, hardware machining and moisture-use limitation	Kitchens, wardrobes, interior doors, furniture workshops, retailers and housing projects

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Panel saw and CNC router	Cuts and routes door designs	Program/design tolerance
2	Sanding/dust extraction	Prepares clean film surface	No routed-fibre defects
3	Glue application station	Applies membrane adhesive	Coat weight/open time
4	Vacuum membrane press	Wraps PVC film over routed face	Heat/vacuum/cycle control
5	QC/hardware bench	Releases finished doors	Adhesion/edge/hardware 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 mdf membrane & cnc-routed doors line equipment.



Made-in-China supplier reference: second real machine configuration for mdf membrane & cnc-routed doors line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- MDF boards, PVC membrane film, compatible adhesive, cleaning materials, hardware, cutting/router tools, sanding consumables and packaging

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

- Approve MDF/film/adhesive compatibility with sample doors
- Check routed detail, sanding quality, adhesive coverage, film stretch and edge wrap
- Test adhesion, heat/moisture response, surface defects and hardware machining 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

MDF membrane doors rely on clean routing and film adhesion. The cheapest press cannot compensate for poor MDF, wrong adhesive or uncontrolled heat/vacuum settings.

Component	Indicative range	Notes
Cutting, CNC routing and dust control	US\$12k-48k	Limited routed designs
Membrane press, glue and finishing	US\$15k-65k	Film/adhesive process scope
Hardware, QC, freight and setup	US\$8k-30k	Sample-led commissioning
Indicative entry total	US\$35k-143k	Workshop, MDF and film 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

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/facade-panel-production-line.html>
- https://www.made-in-china.com/products-search/hot-china-products/Door_Making_Machine.html