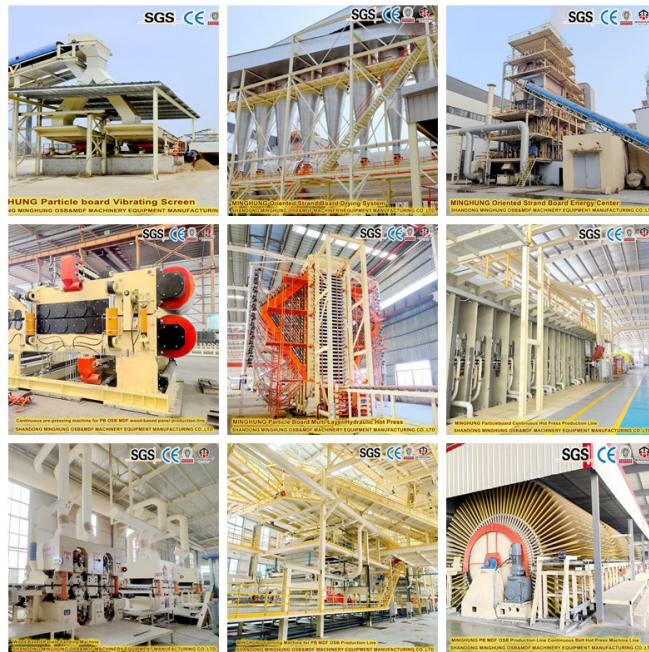




MDF Fibreboard Factory

Complete Turnkey Business Proposal



Made-in-China supplier reference: real mdf fibreboard factory equipment.

bankable study investment gate	confirmed feedstock supply gate	EPC scope delivery gate	quality laboratory release gate
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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

Strategic MDF manufacturing that receives wood or agricultural fibre, chips and refines it, dries and blends resin, forms a mat, hot-presses board, conditions, sands, grades and packs panels for furniture, doors and interiors.

Why this project fits Afghanistan

- This is a strategic plant, not a low-entry equipment package.
- Bankable feedstock, utility, permit, market, EPC and financing evidence is required before selection.
- Operate only with an independent laboratory, defined quality release and preventive-maintenance program.

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

Proceed only after sustainable feedstock volumes, fibre yield, resin supply, emissions permitting, thermal-energy plan, water and fire protection, board-market demand, woodworking customer requirements and qualified wood-panel EPC support are bankable.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
MDF fibreboard	Board thickness, density, grade, emission class, moisture, surface quality, sanding tolerance, panel size and packing	Furniture factories, cabinet makers, door producers, interior fit-out, retailers, construction distributors and woodworking workshops

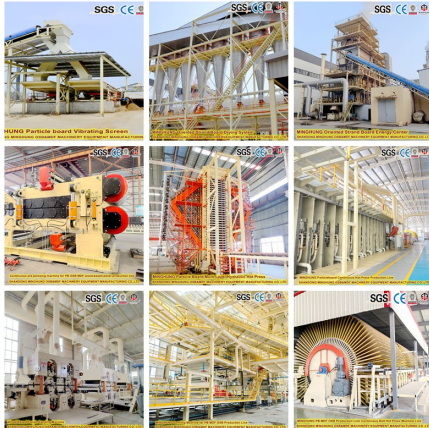
Final capacity, process, resource quality, utilities, permit conditions, emissions, acceptance test and commercial terms require independent engineering review before any order.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Log/agro-fibre receiving and chipping	Prepares uniform fibre feed	Species, moisture and contamination
2	Refining and fibre drying	Creates dry panel fibre	Fibre quality and energy
3	Resin/wax blending and mat forming	Builds board structure	Resin content and weight
4	Continuous/multi-opening hot press	Cures panel	Density profile and thickness
5	Sanding, grading and packing	Releases board	Surface and emission class

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 fibreboard factory equipment.



Made-in-China supplier reference: second real machine configuration for mdf fibreboard factory.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Sustainably sourced wood chips or qualified agricultural fibre, urea/melamine-formaldehyde or lower-emission resin system, wax, additives, sandpaper, packaging, boiler fuel, water-treatment chemicals and laboratory consumables

Utilities & infrastructure

- Bankable electricity/fuel/water plans, process cooling and treatment, plant fire safety, laboratory, covered stores and qualified operation team
- Environmental permits, emissions control, waste route, maintenance workshop, critical spares and site-specific safety systems

Quality, safety and environmental controls

- Confirm legal sustainable feedstock, fibre trials, resin/chemical supply, boiler fuel, fire prevention, emissions, board grades, buyer demand and working-capital cycle before investment
- Control chip contamination, fibre quality, dryer temperature, resin/wax dose, mat weight, press curve, density, thickness, moisture, sanding and formaldehyde/emission performance
- Test density profile, internal bond, bending strength, thickness swell, moisture, surface quality, dimensions and declared emission class

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 is a fibre, resin, energy and emissions-control business. The economical project is defined only after the actual feedstock and board buyers are verified.

Component	Indicative range	Notes
Wood handling, chipping, refining and drying	US\$55m-170m	Feedstock, capacity and energy
Blending, forming, press and board handling	US\$75m-250m	Press line/output scope
Sanding, laboratory, emissions and utilities	US\$35m-120m	Quality and compliance-critical
Indicative strategic project total	US\$165m-540m	Forest assets, land, finance and working capital 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

- mdf-membrane-cnc-routed-doors
- modular-kitchen-cabinets