

Wood-Slat Acoustic Panels Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real wood-slat acoustic panels line equipment.

approved sample market gate	defined range launch scope	quality 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

Builds decorative acoustic panels by cutting and sanding MDF or wood slats, applying veneer/film or coating, bonding accurately spaced slats to acoustic felt, trimming and packing.

Why this project fits Afghanistan

- Approve a physical sample and installation system.
- Start with a focused, saleable range.
- Document material and quality checks 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 a few panel sizes, approved slat spacing and a tested felt/adhesive combination; confirm fire, acoustics and mounting needs for the target project.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Wood-slat acoustic panels	Slat size and spacing, panel flatness, finish adhesion, felt bond, acoustic target and mounting format	Offices, hotels, homes, studios, meeting rooms and interior contractors

Supplier scope, actual material, performance target and acceptance sample must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Rip saw/moulder	Forms repeatable slats	Defined profile/spacing
2	Sander/finishing station	Prepares visible face	Finish adhesion checked
3	Panel assembly press	Bonds slats to felt	Bond/flatness test
4	Trim/packing bench	Releases installation panels	Panel size 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 wood-slat acoustic panels line equipment.



Made-in-China supplier reference: second real machine configuration for wood-slat acoustic panels line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- MDF or conditioned wood slats, acoustic felt, approved adhesive, veneer/film/paint, edge materials and packaging

Utilities & infrastructure

- Stable power, extraction/ventilation and dry covered storage
- Guarded equipment, documented maintenance and essential spares

Quality, safety and environmental controls

- Check slat spacing, straightness, panel flatness and felt bond
- Verify finish adhesion and intended mounting system
- Obtain required acoustic/fire evidence before regulated sales

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

This is a precise finishing-and-assembly process; slat alignment, finish and felt bond are the saleable quality.

Component	Indicative range	Notes
Cutting, moulding and sanding	US\$12k-45k	Small panel workshop
Finishing, assembly and packing	US\$10k-40k	Defined panel family
Indicative entry total	US\$28k-95k	Board/felt 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/wood-slat-acoustic-panel-machine.html>
- https://www.made-in-china.com/products-search/hot-china-products/Acoustic_Wall_Panel.html