

Paper Honeycomb Board & Edge-Protector Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real paper honeycomb board & edge-protector line equipment.

20-40 m/min edge-board entry speed	1,300-1,600 mm future panel width	1 profile phase-one product	12-22 expanded workforce
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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

A medium paper-engineering project producing protective honeycomb board and L-shaped paper edge protectors from specified recycled/kraft reels. The honeycomb route expands and glues a paper core, dries and laminates it between face sheets, presses, trims and cuts panels. The edge-board route slits reels, coats multiple plies with adhesive, forms and presses an angle profile, heats or cures it, servo-cuts lengths and stacks. These are two connected but separate forming lines sharing paper, glue, utilities and laboratory.

Why this project fits Afghanistan

- Appliance, furniture, door, glass and export packers need recyclable corner and panel protection.
- Edge protectors offer a lower-risk first phase than a complete honeycomb panel plant.
- Shared paper, glue and tests support later expansion without confusing the two processes.
- Compression, moisture and adhesive cure determine transport performance.

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

Phase the project. Start with one L-edge protector size using purchased slit paper and a 20-40 m/min former, then add a 1,300-1,600 mm honeycomb board line only after appliance, furniture, door or logistics buyers approve panel thickness and volume. A complete board line requires core forming/expansion, glue, drying, face-sheet lamination, pressing, trimming and cutting; an edge-board machine alone cannot make honeycomb panels.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
L-shaped paper edge protector	One leg width, thickness, length, moisture, straightness, bond and compression	Cartons, appliances, furniture, glass and pallet loads
Paper honeycomb protective panel	Separate core cell, panel thickness/size, face paper, flatness and compression	Door cores, furniture panels and protective packaging after Phase 2

Edge-board and honeycomb-board performance must be validated separately. Acceptance measures paper moisture, glue solids and spread, profile dimensions/angle, straightness, cut length, delamination and compression for edge protectors; and cell size, core expansion, panel thickness, flatness, face bond, edge crush, flat crush and moisture for panels. Wet or under-cured product must not be packed.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Paper slitter/rewinder or purchased-strip stands	Prepares narrow plies for edge board	Phase-one choice
2	Glue kitchen and multi-ply coater	Controls adhesive preparation and spread	Water-based system
3	Edge-board former and press	Builds L/U/flat protective profile	One L profile at launch
4	Heater/curing and servo cutter	Sets bond and cuts ordered lengths	20-40 m/min supplier range
5	Honeycomb core former/expander	Creates and opens paper cell core	Phase 2 only
6	Face laminator, dryer and press	Bonds core between surface sheets	1,300-1,600 mm future width
7	Panel trim/cut and laboratory	Finishes and tests both products	Compression/moisture/bond tests

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 paper honeycomb board & edge-protector line equipment.



Made-in-China supplier reference: second real machine configuration for paper honeycomb board & edge-protector line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Specified recycled/kraft core paper and face liner reels
- Water-based starch/PVA adhesive with controlled solids
- Straps, wrap, pallets and buyer cartons for trials
- Blades, forming tools, heaters, pumps and critical spares

Utilities & infrastructure

- Industrial three-phase power and compressed air
- Dry paper storage and controlled curing space
- Glue preparation water, wash area and effluent control
- Long straight machine footprint and safe reel handling
- Fire protection, trim baling and dry finished store

Quality, safety and environmental controls

- Release paper and glue by specification
- Control ply count, glue spread and line speed
- Verify edge-board angle, legs, thickness and straightness
- Test profile compression and pallet-load protection
- Measure panel cell, thickness, flatness and face bond
- Condition samples before compression and moisture 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

The lowest credible phase produces one L-edge protector and buys slit paper. The honeycomb core/panel line is a separate later investment. Building, boiler where needed and paper working stock are excluded.

Component	Indicative range	Notes
Edge-board former, glue and cutter	US\$45k-110k	One L profile Phase 1
Slitting, laboratory and handling	US\$18k-48k	Can buy slit paper initially
Honeycomb core and panel line	US\$170k-420k	Phase 2 expansion
Drying, freight, installation and spares	US\$55k-145k	Both-line expanded project
Indicative phased installed total	US\$288k-723k	Phase 1 alone about US\$70k-185k; building/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.made-in-china.com/showroom/amc-pack/product-detailgqzEwebPbjRQ/China-Honeycomb-Board-Production-Line-PBK1600-.html>
- <https://shenxihoneycomb.en.made-in-china.com/product/ZMAWzIKbSfu/China-Zhj-100-G-Paper-Edge-Board-Machine.html>