

Fruit-Carton Partitions & Trays Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real fruit-carton partitions & trays line equipment.

400-1,200 mm slotter size range	2 layouts launch partitions	1 tray die starter tray	4-8 entry 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 micro/small paperboard-converting line producing slotted corrugated partitions, dividers and simple fruit-carton trays from purchased three- or five-ply corrugated sheets or recycled paperboard. The route covers sheet receiving, moisture conditioning, strip slitting or die cutting, accurate cross-slotting, manual or automatic partition assembly, tray folding or gluing, dimensional inspection, compression trials, bundling and dry dispatch. It does not manufacture corrugated board.

Why this project fits Afghanistan

- Fruit exporters need separators that reduce bruising and movement during transport.
- Purchased corrugated sheets keep machinery and working capital low.
- Adjustable slotting supports several cell layouts without a full carton plant.
- Fit must be validated in the exact carton with actual fruit and transport trials.

Sanaatchi delivery scope

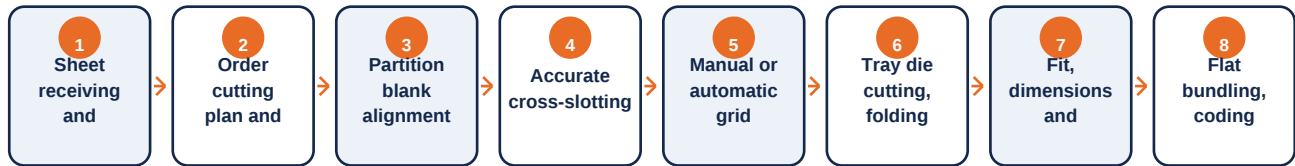
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Launch two partition cell sizes for one confirmed fruit carton using purchased sheets. Screen a 400-1,200 mm automatic partition slotter, guillotine or strip slitter, adjustable assembly jigs and manual insertion; add an automatic partition assembler only after volume is proven. Include sample dies for one tray, glue station, bundle press and box/partition compression tests.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Corrugated fruit-carton partition	Customer carton, cell count, slot width/depth, board grade, fit and compression	Fresh-fruit packhouses and exporters
Simple corrugated fruit tray	Approved die, dimensions, ventilation, fold and stacking performance	Produce distributors and retail packers

Partition performance depends on board flute, moisture, slot geometry, cell dimensions and carton fit. Acceptance uses customer sheets and cartons and measures slot position and width, assembly force, grid squareness, cell size, board damage, loaded vibration, stacking compression and fruit bruising. Paperboard in direct food contact requires buyer-approved hygiene and ink/glue specifications.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Sheet guillotine or strip slitter	Cuts board into controlled partition strips	Customer sheet sizes
2	Automatic partition slotter	Cuts opposing interlock slots accurately	3-5 ply board, 400-1,200 mm
3	Adjustable assembly jigs	Squares manual partition grids	Two launch layouts
4	Optional automatic assembler	Interlocks strips at higher volume	Phase 2 only
5	Tray die cutter and creaser	Forms one simple tray blank	One launch die
6	Glue and bundle stations	Closes trays and packs flat partitions	Water-based approved glue
7	Packaging laboratory	Checks dimensions and compression	Loaded transport trials

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 fruit-carton partitions & trays line equipment.



Made-in-China supplier reference: second real machine configuration for fruit-carton partitions & trays line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Purchased three- or five-ply corrugated sheets or approved paperboard
- Buyer-approved water-based glue and optional food-safe ink
- Cutting/slotting knives, one tray die and wear spares
- Straps, wrap, pallets, labels and sample cartons

Utilities & infrastructure

- Small three-phase power and compressed air where required
- Dry humidity-controlled sheet and finished-goods store
- Safe sheet lifting, guarded knives and dust extraction
- Sample packing and compression-test area

Quality, safety and environmental controls

- Release board grade, moisture, warp and thickness
- Verify strip width and slot geometry
- Check assembled grid fit and squareness
- Inspect tray fold, glue and dimensions
- Test carton compression and loaded vibration
- Trace each bundle to board lot and order

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 workshop buys finished corrugated sheets, slots two partition layouts and assembles them manually. Automatic grid assembly, corrugation, building and sheet working stock are excluded.

Component	Indicative range	Notes
Slitter/guillotine and partition slotter	US\$6k-16k	Manual assembly entry
Jigs, tray die cutter and glue tools	US\$4k-11k	Two grids and one tray
Laboratory, handling and bundles	US\$3k-8k	Customer-carton validation
Freight, installation and spares	US\$3k-9k	Compact workshop
Indicative installed low-entry total	US\$16k-44k	Automatic assembler and board 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://canghaimachinery.en.made-in-china.com/product/TNGJhnSkOeVt/China-Corrugated-Cardboard-Partition-Slotter-Machine.html>
- <https://daqipackingmachine.en.made-in-china.com/product/iZzfaNYcCFtk/China-Advanced-Corrugated-Strip-Cell-Layout-Carton-Partition-Assembler-Inserting-Machine.html>