

Flexible-Pouch Printing & Lamination Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real flexible-pouch printing & lamination line equipment.

6-8 colours entry printing press	1,000-1,300 mm screened web width	1 laminate launch structure	24-40 three-shift 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 industrial flexible-packaging plant converting purchased BOPP, PET, PE, CPP, nylon, metallised film, paper or foil into printed laminated rollstock and selected pouches through film release and conditioning, wide-web gravure or flexographic printing, ink drying and exhaust, print inspection, solventless adhesive metering and two-layer lamination, controlled curing, slitting/rewinding, pouch forming and sealing, inspection and migration/seal testing. Printing, lamination, curing and bag making are separate balanced stages.

Why this project fits Afghanistan

- Food, spice, snack, detergent and agricultural brands need printed barrier pouches.
- Local conversion can shorten order lead times and print smaller regional runs.
- A complete plant must balance printing, lamination cure, slitting and pouch capacity.
- Food-contact compliance, solvent safety, bond cure and seal integrity are non-negotiable.

Sanaatchi delivery scope

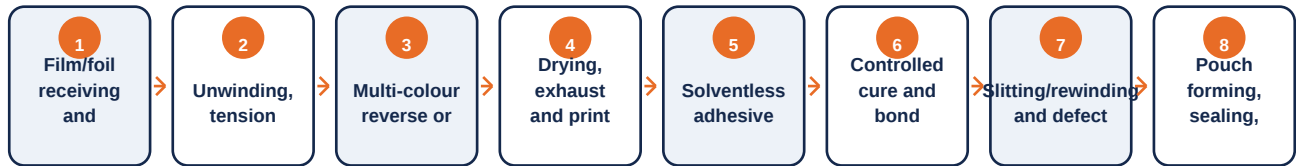
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Do not publish a low headline price for a printer alone. Screen one 6-8 colour 1,000-1,300 mm gravure press with register and web inspection, solvent/LEL-safe exhaust and recovery or compliant destruction route, one solventless two-layer laminator with automatic A/B adhesive mixer, curing room, slitter/rewinder and one center- or three-side-seal pouch machine. Start with one food or dry-product laminate structure and externally made cylinders.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Printed two-layer laminate rollstock	One approved film structure, print, bond, barrier, migration, width and roll build	Form-fill-seal food, spice and detergent packers
Center- or three-side-seal pouch	One pouch type, dimensions, sealant layer, seal strength, leak and food-contact release	Dry foods, snacks, spices and household products

A printable film is not automatically a food-compliant laminate. Acceptance uses the exact substrates, ink, adhesive and pouch product and measures corona, colour/register, residual solvent, adhesive ratio/coating, cure time, bond, curl, coefficient of friction, barrier where required, migration, slit quality, seal window, seal strength, leak/burst, dimensions, output and waste. Solvent printing requires engineered explosion and emission controls.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Six- to eight-colour gravure press	Prints registered wide-web packaging	1,000-1,300 mm entry
2	Ink kitchen, dryers and safe exhaust	Controls ink and removes solvent vapour	LEL/fire engineered
3	Web inspection and register system	Detects colour and print defects	Camera/strobe review
4	Solventless two-layer laminator	Bonds printed and sealant webs	Automatic A/B mixer
5	Conditioned curing room	Develops adhesive bond safely	Recipe time/temperature
6	Slitter/rewinder	Forms defect-controlled customer rolls	Tension/edge quality
7	Center/three-side pouch machine	Forms one selected pouch family	Heat-seal recipe
8	Packaging laboratory	Tests print, bond, migration and seals	Buyer/food standard

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 flexible-pouch printing & lamination line equipment.



Made-in-China supplier reference: second real machine configuration for flexible-pouch printing & lamination line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Certified printing and sealant films, paper or foil by approved structure
- Matched inks, solvent and solventless A/B adhesive
- Gravure cylinders or flexo plates and sleeves
- Cores, cartons, wrap, zipper/spout only if specified and critical spares

Utilities & infrastructure

- High stable three-phase power and compressed air
- Drying heat, chilled water and controlled curing room
- Explosion-safe solvent storage, LEL monitoring and ventilation
- Emission recovery/destruction and hazardous-waste route
- Climate-controlled film, ink, cylinder and finished-goods areas

Quality, safety and environmental controls

- Release every substrate, ink and adhesive lot
- Control treatment, tension, colour and registration
- Monitor dryer exhaust and residual solvent
- Verify adhesive ratio, coating weight and cure
- Test bond, curl, COF, barrier and migration
- Inspect pouch dimensions, seal strength, leak and burst

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 integrated plant uses one press, one solventless laminate, one pouch family and outsourced cylinders. A printer-only quote is not a production line. Building, emission permits and film/ink working stock are excluded.

Component	Indicative range	Notes
Six- to eight-colour gravure press and inspection	US\$120k-290k	1,000-1,300 mm basis
Solventless laminator, mixer and curing	US\$105k-250k	Two-layer entry
Slitter, one pouch machine and laboratory	US\$90k-220k	One pouch family
Exhaust, safety, freight, installation and spares	US\$95k-260k	Site-specific solvent scope
Indicative installed industrial total	US\$410k-1.02m	Building, cylinders 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

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Research and image references

- <https://ketemachine.en.made-in-china.com/product/AfSrNudHJQkn/China-8-Color-Rotogravure-Printing-Machine-China-Manufacturer-for-Flexible-Packaging.html>
- <https://chinaztjx.en.made-in-china.com/product/dOrAhJzGHacN/China-Flexible-Packaging-Film-Solventless-Laminating-Machine.html>