

PVC Suspended-Ceiling Panel Extrusion Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real pvc suspended-ceiling panel extrusion line equipment.

local gypsum core input	reusable moulds process basis	dry finish release gate	small team entry operation
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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

An extrusion and printing/lamination line making hollow PVC suspended-ceiling panels from PVC resin, calcium-carbonate filler, stabiliser and colour masterbatch, followed by profile calibration, cutting, surface decoration, inspection and packing.

Why this project fits Afghanistan

- Use local gypsum only after test casting.
- Mould quality and controlled drying govern saleable finish.
- Launch with a focused design range and contractor samples.

Sanaatchi delivery scope

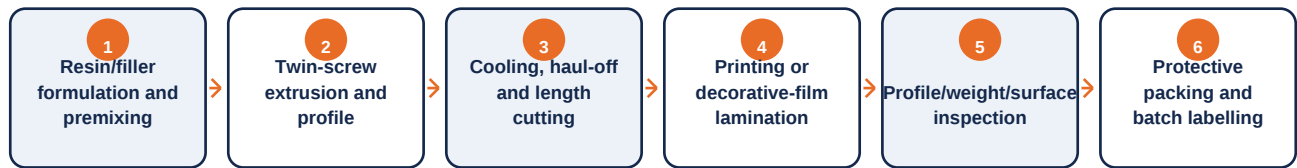
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Start with one saleable panel width and a limited décor range; validate formulation, fire/smoke requirement, profile weight, surface adhesion and local installer demand.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
PVC suspended-ceiling panels	Panel width, thickness, weight per metre, profile geometry, surface adhesion and colour consistency	Ceiling installers, retailers, kitchens, shops, offices and housing projects

Supplier must demonstrate the selected mould, recipe and acceptance sample before purchase.

Core Equipment Schedule

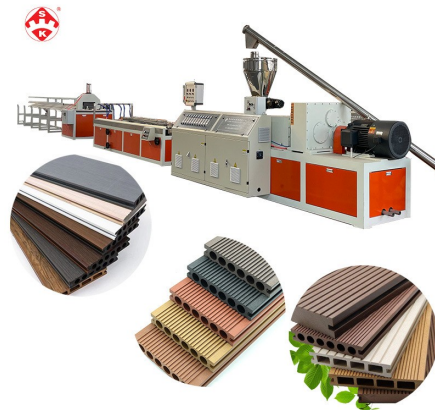
Step	Equipment	Function	Indicative parameter
1	High-speed mixer and feeder	Prepares PVC compound	Tested resin/filler recipe
2	Twin-screw extruder and die	Forms hollow panel profile	One starter width
3	Calibration, cooling and haul-off	Controls profile stability	Weight/geometry check
4	Printing/lamination and cutter	Creates sellable décor panels	Limited décor range

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 pvc suspended-ceiling panel extrusion line equipment.



Made-in-China supplier reference: second real machine configuration for pvc suspended-ceiling panel extrusion line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- PVC resin, calcium carbonate, stabiliser, lubricants, masterbatch and decorative film/ink
- Packaging film, labels, cartons and pallets

Utilities & infrastructure

- Covered dry workshop and finished-goods storage
- Dust control, guarded tools and safe lifting
- Measured water, approved mould release and batch records
- Workshop electricity, ventilation and packing area

Quality, safety and environmental controls

- Check compound moisture and batch recipe before extrusion
- Measure panel width, thickness, weight, straightness, surface adhesion and colour consistency

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

PVC panels require formulation control, guarded hot equipment and demand proof; begin with one profile, not a large design catalogue.

Component	Indicative range	Notes
Mixing, extrusion and calibration	US\$35k-100k	One profile width
Printing/lamination, cutting and packing	US\$20k-70k	Controlled décor range
Indicative entry total	US\$65k-180k	Raw-material inventory 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/pvc-ceiling-panel-production-line.html>
- https://www.made-in-china.com/products-search/hot-china-products/PVC_Ceiling_Panel_Production_Line.html