

WPC Exterior Decking & Cladding Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real wpc exterior decking & cladding line equipment.

compound controlled input	extrusion process core	limited range launch scope	dry storage release condition
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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

Extrudes weather-exposed WPC decking and cladding from controlled wood flour/polymer compound, including profile calibration, cooling, embossing or co-extrusion where specified, cutting and batch inspection.

Why this project fits Afghanistan

- Profile geometry and formulation control determine acceptance.
- Use only a limited décor/profile range at launch.
- Verify surface quality and installer fit before dispatch.

Sanaatchi delivery scope

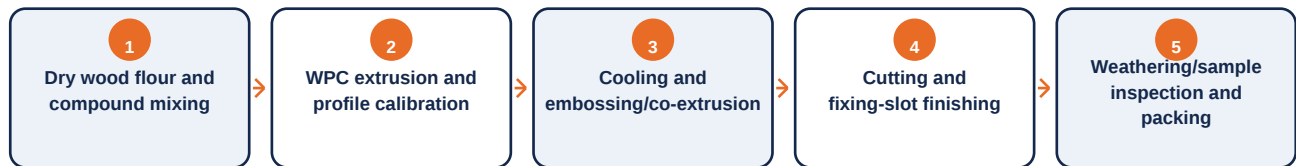
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Do not launch until UV, water absorption, thermal movement, slip and fixing requirements have been tested for the exact profile.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
WPC exterior decking and cladding	Profile geometry, density, water uptake, UV surface, thermal movement, fixing system and colour consistency	Compounds, terraces, facades, hospitality and outdoor contractors

Supplier must prove the defined die, compound and acceptance sample before purchase.

Core Equipment Schedule

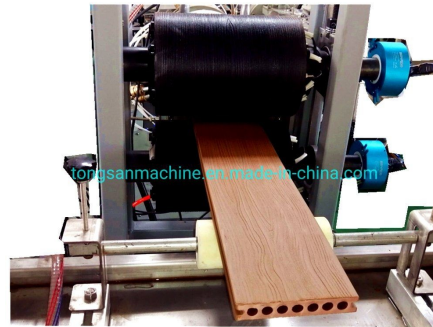
Step	Equipment	Function	Indicative parameter
1	Dryer/mixer and feeder	Controls moisture and compound	Outdoor-grade recipe
2	WPC extruder and die	Forms deck/cladding profile	Defined profile family
3	Calibration/cooling/embossing	Stabilises weather-exposed surface	Surface test
4	Cutter and inspection station	Releases installable lengths	Fixing-system fit

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 wpc exterior decking & cladding line equipment.



Made-in-China supplier reference: second real machine configuration for wpc exterior decking & cladding line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Dry wood flour, polymer, UV stabiliser, colour masterbatch, additives and optional capstock

Utilities & infrastructure

- Stable power, cooling water, ventilation and dry covered storage
- Guarded hot equipment, dust extraction and maintenance spares

Quality, safety and environmental controls

- Check moisture, density, dimensions, water uptake, surface appearance and fixing compatibility

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

Outdoor WPC requires climate-appropriate testing; do not market an indoor panel as decking or façade cladding.

Component	Indicative range	Notes
Drying, mixing and extrusion	US\$90k-240k	Outdoor profile package
Surface finish, cooling and packing	US\$50k-160k	Weather-resistant scope
Indicative total	US\$140k-400k	Testing and raw material 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

Sanaatchi Industrial Vision Group

Afghanistan Office: +93 779 819 820 | info@sanaatchi.com

China Office: +86 159 5171 6867 | china@sanaatchi.com

Website: www.sanaatchi.com

Research and image references

- <https://www.alibaba.com/showroom/wpc-decorative-production-line.html>
- https://www.made-in-china.com/products-search/hot-china-products/WPC_Panel_Production_Line.html