SANAATCHI
INDUSTRIAL VISION GROUP

Galvanized Roofing-Sheet Roll-Forming Line

Complete Turnkey Business Proposal

Made-in-China supplier reference: real galvanized roofing-sheet roll-forming line equipment.

8-20 m/min	0.35-0.60 mm	1 profile	4-7
entry forming speed	**launch thickness**	**starter roller set**	**entry workforce**

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 small cold-roll-forming line converting purchased GI, PPGI or PPGL coils into one corrugated roofing and wall-sheet profile through coil receiving and coating inspection, rated decoiling, entry guiding and optional leveling, progressive multi-stand roll forming, encoded length measurement, flying or stop hydraulic cutting, run-out support, sheet stacking, dimensional and coating inspection, bundling and dry dispatch. It does not galvanize, paint or manufacture steel coil.

Why this project fits Afghanistan

- Afghan warehouses, shops, homes and factories consume corrugated roofing and cladding sheets.
- Imported coated coil can be converted locally to exact project lengths with less transport damage and scrap.
- One accepted profile avoids incompatible overlaps and excess roller-tooling inventory.
- Coil grade, coating, roll geometry and cut length determine roof watertightness and warranty.

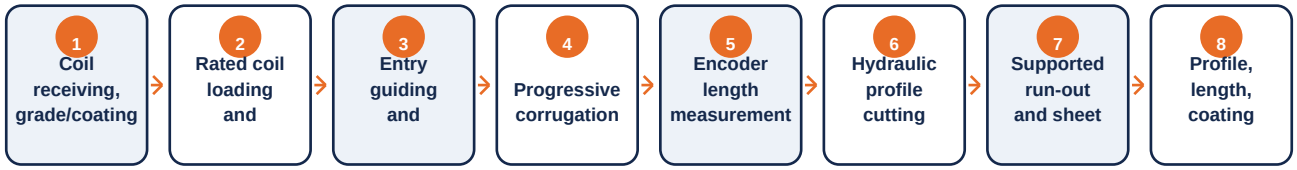
Sanaatchi delivery scope

- 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 one locally accepted corrugated profile and one coil-width/thickness window, for example 0.35-0.60 mm GI/PPGI, after contractor confirmation. Specify a rated 5 t decoiler with hold-down and brake, entry guide, 16-18 forming stands, guarded chain/gear drive, PLC/encoder, hydraulic post-cut matched to the profile, 6-12 m run-out tables, sheet gauges and manual stacking. Add a hydraulic coil car, leveler and automatic stacker only when coil weights and volume justify them.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Corrugated galvanized roofing sheet	One profile drawing, coil grade/coating, base-metal thickness, effective cover width, length and tolerance	Homes, shops, warehouses and industrial buildings
Prepainted roofing/cladding sheet	Separate colour, paint system, coating mass and handling/warranty approval	Commercial and architectural projects

Nominal gauge, base-metal thickness and coated thickness must not be confused. Supplier acceptance uses the contracted coil and verifies coil loading, line speed, rib depth/pitch, effective cover width, side lap, camber, twist, length, burr, coating scratches and a two-sheet overlap/water-shedding mock-up. Roller and cutter profiles must follow the approved drawing and thermal expansion/installation guidance.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Rated decoiler with brake/hold-down	Safely supports and feeds heavy coil	5 t entry basis
2	Entry guide and optional leveler	Centers strip and controls coil set	Coil-width window
3	Multi-stand roll former	Forms one corrugated profile progressively	16-18 stand basis
4	PLC, encoder and hydraulic profile cutter	Controls quantity, length and cut geometry	Matched cutter die
5	Run-out tables and manual stack aids	Supports long thin sheets	6-12 m product length
6	Sheet/profile inspection tools	Releases dimensions and coating	Template, micrometer and gauges

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 galvanized roofing-sheet roll-forming line equipment.

Made-in-China supplier reference: second real machine configuration for galvanized roofing-sheet roll-forming line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Certified GI, PPGI or PPGL coils by steel grade, BMT and coating system
- Straps, edge protectors, waterproof wrap and bundle labels
- Roller bearings, chains/gears, cutter blades and hydraulic spares

Utilities & infrastructure

- Three-phase power and hydraulic oil management
- Rated crane/forklift or coil-loading system
- Long straight guarded line and supported run-out area
- Dry coil store with chocks and safe coil-rack design
- Covered finished-sheet stacking protected from water and abrasion

Quality, safety and environmental controls

- Verify coil certificate, BMT, coating mass/paint and surface
- Inspect coil loading, brake, guides and strip alignment
- Measure rib profile, cover width, camber and twist
- Check encoder length and cut squareness/burr
- Inspect coating cracks/scratches after forming
- Complete overlap and installation mock-up before 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 line makes one corrugated profile with manual stacking. Galvanizing/painting, slitting, automatic stacking, building, crane upgrades and working coil stock are excluded.

Component	Indicative range	Notes
5 t decoiler, guides and roll former	US$13k-32k	One profile
PLC, hydraulic cutter and run-out tables	US$6k-16k	Manual stacking entry
Coil handling, inspection and packing	US$4k-13k	Safe heavy-coil scope
Freight, installation, cutter and spares	US$5k-14k	Supplier trial with contracted coil
Indicative installed low-entry total	US$28k-75k	Coil coating, building and coil 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

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