

Rain Gutters & Downpipes Production Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real rain gutters & downpipes production line equipment.

10-15 m/min supplier forming range	0.4-0.8 mm screened coil thickness	1 gutter phase-one profile	4-8 expanded 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 roof-drainage fabrication project converting narrow prepainted galvanized-steel or aluminum coils into a matched gutter-and-downpipe system. The gutter route decoils, guides, roll-forms one half-round or box profile and cuts lengths; the separate downpipe route forms and closes one round or rectangular tube, cuts it and uses a dedicated elbow/offset machine. Both routes require end caps, outlets, brackets and installation-fit checks. One universal roll former cannot make every component.

Why this project fits Afghanistan

- Many Afghan roofs discharge rainwater at foundations because matched gutters, outlets and downpipes are unavailable.
- Local cut-to-length production supports contractors with shorter lead times and fewer damaged long pieces.
- A gutter-first phase can enter below the cost of two full forming lines.
- System performance depends on profile, slope, outlets, brackets, seams and installation-not the roll former alone.

Sanaatchi delivery scope

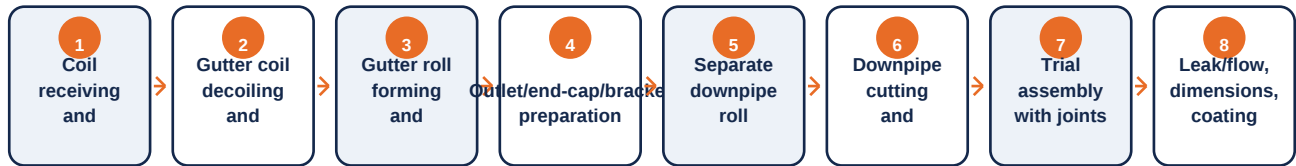
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Phase the system honestly. Start with one 5- or 6-inch gutter profile using a 1-2 t decoiler, 15-18 stand PLC roll former, hydraulic cutter and manual accessory/installation jigs. Add one matching 80-100 mm downpipe line plus its dedicated elbow machine only after gutter sales are proven. Contract coil material and 0.4-0.8 mm thickness, joint/seam style, outlet, bracket spacing and a full eave-to-drain installation sample.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Roof rain gutter	One 5- or 6-inch profile, material, thickness, length, outlet, end cap, bracket and slope guide	Homes, shops, warehouses and institutional roofs
Matched downpipe and elbows	One 80-100 mm round/rectangular profile, seam, elbows, offsets, brackets and outlet fit	Complete roof-drainage installations after Phase 2

Gutter and downpipe are separate forming routes even when suppliers advertise them together. Acceptance assembles a real system with eave brackets, slope, gutter joints, end caps, outlet, downpipe, elbows/offsets and wall brackets; then checks profile dimensions, cut length, seam closure, coating damage, water flow, ponding, leakage and attachment. Hydraulic capacity and local rainfall catchment must guide outlet spacing.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Gutter decoiler and entry guide	Feeds narrow coil safely	1-2 t entry
2	Gutter PLC roll former and cutter	Forms and cuts one gutter profile	Phase 1
3	Accessory punches and hand jigs	Makes outlets, caps and bracket interfaces	Matched system
4	Separate downpipe roll former/closer	Forms one round or rectangular pipe	Phase 2
5	Elbow/offset forming machine	Bends downpipe for roof/wall geometry	Dedicated pipe profile
6	Assembly and water-flow test rig	Validates the complete drainage system	Eave-to-drain sample

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 rain gutters & downpipes production line equipment.



Made-in-China supplier reference: second real machine configuration for rain gutters & downpipes production line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Prepainted galvanized steel or aluminum coil by grade, BMT and coating
- Matched end caps, outlets, connectors, brackets and sealants
- Straps, edge protection, labels and long-product supports
- Roller/cutter, hydraulic, seam-closing and elbow-machine spares

Utilities & infrastructure

- Three-phase power and protected hydraulic/electrical systems
- Safe narrow-coil lifting and dry coil storage
- Long supported run-out and bundle area
- Covered accessory assembly and sealant workbench
- Water supply and drainage for full-system flow/leak testing

Quality, safety and environmental controls

- Release coil grade, BMT, paint/coating and width
- Measure gutter/downpipe profile, length, twist and cut quality
- Inspect seam closure and coating cracks/scratches
- Verify outlet, end cap, connector, bracket and elbow fit
- Build a sloped full-system mock-up
- Run measured flow, ponding, overflow and leak tests

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 entry produces one gutter and fabricates accessories manually. A matching downpipe former and elbow machine are a separate second phase. Building, coil slitting/coating and working stock are excluded.

Component	Indicative range	Notes
Phase-one gutter former, decoiler and cutter	US\$11k-28k	One gutter profile
Accessory jigs, testing and handling	US\$4k-11k	Installable system
Phase-two downpipe and elbow machines	US\$15k-38k	One matching pipe
Freight, installation and starter spares	US\$6k-17k	Both phases
Indicative phased installed total	US\$36k-94k	Phase 1 alone about US\$17k-47k; building/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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- <https://geitgroup.en.made-in-china.com/product/sxarRZeWYQUB/China-Rain-Gutter-Downspouts-Downpipes-Elbow-Roll-Forming-Machine.html>