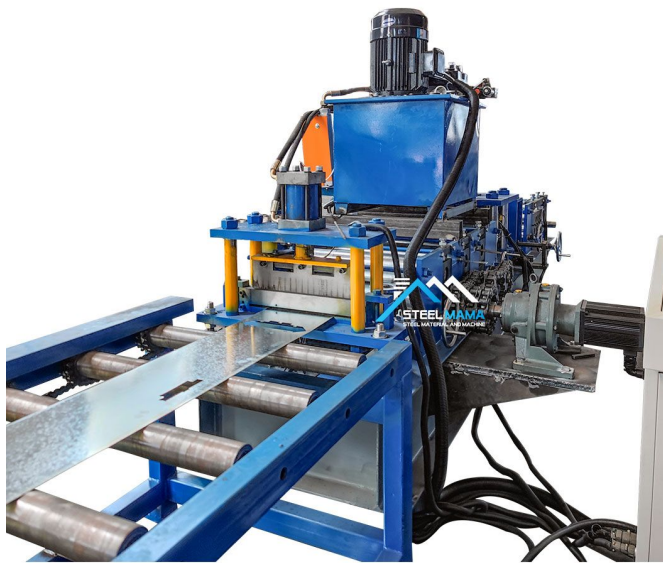


Light-Gauge Steel Building Frames Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real light-gauge steel building frames line equipment.

approved sample market gate	defined range launch scope	performance test release gate	batch records traceability
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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

Produces cold-formed light-gauge steel wall, floor and roof frame components by coil feeding, roll forming, punching, cut-to-length, labelling and CNC-directed kit packing.

Why this project fits Afghanistan

- Approve a physical sample and applicable standard.
- Launch with a defined product range and documented tool settings.
- Keep material and quality records for each batch.

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

This requires engineered building designs and a consistent profile system. Confirm applicable structural code, coil grade/coating, software output, connection system, wind/seismic design, fire/acoustic build-up and installer capability before equipment selection.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Light-gauge steel building frames	Steel grade/coating, profile family, thickness, punched connection pattern, labelled kit, structural design, corrosion/fire build-up and installation system	Housing, extensions, clinics, schools, worker accommodation, rural buildings and developers

Supplier scope, materials, utilities, installation requirements and acceptance criteria must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Design/CAD-CAM system	Creates buildable frame files	Engineered connection output
2	Coil roll-forming machine	Forms profile members	Gauge/profile tolerance
3	Punch/cut system	Makes labelled components	Hole/length accuracy
4	Kit packing station	Sequences site components	Part traceability
5	Trial assembly bay	Validates frame fit	System/build drawing check

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 light-gauge steel building frames line equipment.



Made-in-China supplier reference: second real machine configuration for light-gauge steel building frames line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Galvanised steel coil, fasteners, labels, protective packing, compatible sheathing/insulation/fire materials and design documentation

Utilities & infrastructure

- Stable electricity, covered raw-material storage and protected finished-goods handling
- Guarded equipment, documented maintenance, essential spares and product-specific safety controls

Quality, safety and environmental controls

- Use only engineered designs for stated loads and seismic/wind conditions
- Control coil certificates, profile dimensions, punch accuracy, labels and connection-fit
- Check full mock frame, fastener system, corrosion/fire build-up and installation drawings 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

Light-gauge steel is a designed building system. Accurate labelling and frame fitting cannot replace structural engineering or safe on-site assembly.

Component	Indicative range	Notes
CNC roll-forming and software	US\$120k-420k	Profile-system production
Handling, labelling and trial assembly	US\$35k-130k	Kit/build controls
Engineering, setup and trial coils	US\$35k-120k	Code/design validation
Indicative project total	US\$190k-670k	Workshop and coil 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

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