



Metal Studs & Drywall Channels Production Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real metal studs & drywall channels production line equipment.

20-40 m/min entry forming speed	0.45-0.60 mm launch coil thickness	75 mm starter partition family	3-6 entry 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 compact cold-roll-forming line converting slit galvanized steel coil into non-load-bearing drywall studs and tracks through coil receiving, decoiling, guiding, optional service-hole punching, multi-stand forming, flying or stop-cutting, length verification, nesting, strapping and traceable dispatch. Structural light-gauge framing requires a different engineering and certification scope.

Why this project fits Afghanistan

- Drywall partitions and suspended interiors need repeatable local studs and tracks.
- Purchased slit coil avoids an entry slitting line and reduces width variation.
- One matched profile family limits tooling and coil inventory.
- Profile dimensions, coating, straightness and installed assembly govern acceptance.

Sanaatchi delivery scope

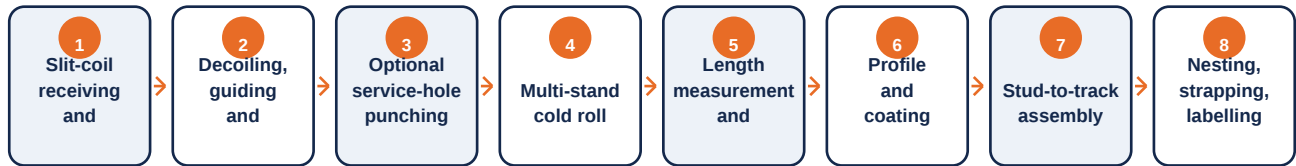
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Launch one matched non-load-bearing partition family, such as 75 mm stud and track, using purchased slit 0.45-0.60 mm galvanized coil. Specify a 1-2 t decoiler, entry guide, 12-16 forming stations, one service-hole punch, PLC length control, hydraulic or servo cut and run-out tables. Contract the complete stud-to-track fit and gypsum-board assembly, not machine speed alone.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Drywall C stud	One web width, flange, lip, BMT, coating, length and service-hole pattern	Interior partition contractors
Matching U track	Clear fit, flange, BMT, coating and length matched to launch stud	Complete non-load-bearing partition systems

Non-load-bearing drywall profiles must not be advertised as structural light-gauge framing. Supplier acceptance uses the contracted coil and measures base-metal thickness, coating, cross-section, lip and flange angles, bow, twist, cut length, burr and stud-to-track fit; a representative gypsum-board wall is assembled before release.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	1-2 t decoiler and entry guide	Feeds slit coil at stable alignment	Contracted coil ID/OD
2	Service-hole punch	Adds repeatable cable openings	Optional launch pattern
3	12-16 stand roll former	Forms one stud or track profile	Dedicated or cassette tooling
4	PLC measuring and hydraulic/servo cutter	Cuts programmed lengths	Buyer tolerance
5	Run-out, nesting and strapping tables	Protects long profiles	Manual entry handling
6	Profile gauges and assembly jig	Releases geometry and fit	Stud-track-board 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 metal studs & drywall channels production line equipment.



Made-in-China supplier reference: second real machine configuration for metal studs & drywall channels production line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Slit hot-dip-galvanized coil by grade, BMT, coating and width
- Straps, edge protectors, labels and long-product bearers
- Punch, roller, cutter, encoder and hydraulic spares

Utilities & infrastructure

- Stable three-phase power
- Dry protected coil and profile storage
- Safe coil lifting and guarded forming line
- Long straight run-out and packing zone
- Scrap segregation and oil housekeeping

Quality, safety and environmental controls

- Verify coil certificate, BMT, coating and slit width
- Measure web, flange, lip, angle and hole position
- Check bow, camber, twist, burr and cut length
- Inspect zinc scratches and roller marks
- Test stud-to-track engagement
- Build a representative non-load-bearing partition sample

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 entry buys slit galvanized coil and makes one matched non-load-bearing stud/track family. Coil slitting, structural framing certification, building and working stock are excluded.

Component	Indicative range	Notes
Decoiler, punch and one roll former	US\$10k-24k	One profile/tooling basis
Matched second profile tooling or machine	US\$5k-16k	Stud and track family
Inspection, run-out and packing	US\$3k-8k	Manual entry
Freight, installation and spares	US\$4k-12k	Supplier material trial
Indicative installed low-entry total	US\$22k-60k	Slitter, 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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- <https://putaitechnology.en.made-in-china.com/product/mZWtYyOVrdpl/China-Automatic-Dry-Wall-Steel-Stud-and-Track-Roll-Forming-Machine-Light-Steel-Framing-Making-Production-Line-Machine.html>