

Suspended-Ceiling T-Grid Systems Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real suspended-ceiling t-grid systems 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 galvanised-steel suspended-ceiling T-grid main runners, cross tees and perimeter angles by slitting, roll forming, punching, cut-to-length, end detailing, coating control and bundled 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

Start with the specified profile family and compatible ceiling-tile system. Confirm strip thickness/coating, load/span tables, punching geometry, clip compatibility, corrosion environment and installer demand before selecting a full roll-forming line.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Suspended-ceiling T-grid systems	Steel grade/coating, tee profile, length, web/bulb geometry, cross-tee connection, load/span, corrosion class and tile compatibility	Offices, retail, schools, clinics, hotels, housing and fit-out contractors

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Coil decoiler/feeder	Feeds coated strip	Strip/coating traceability
2	Roll-forming mill	Forms tee profiles	Profile/straightness tolerance
3	Punch/end-forming press	Creates connectors	Clip/slot fit
4	Cut/bundle line	Delivers site lengths	Length/pack count
5	Load/fit QC fixture	Checks system compatibility	Span/connection release

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 suspended-ceiling t-grid systems line equipment.



Made-in-China supplier reference: second real machine configuration for suspended-ceiling t-grid systems line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Galvanised or pre-painted steel strip, protective coating where specified, packing film, labels and compatible suspension/clip accessories

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

- Control strip thickness, coating, tee geometry, straightness and punch positions
- Test cross-tee connection, tile fit, load/span behaviour and corrosion-surface quality
- Release only labelled bundle lengths with matching accessory specification

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

T-grid buyers purchase a compatible ceiling system. A cheap profile is unusable if connection geometry, coating or span performance is inconsistent.

Component	Indicative range	Notes
Slitting, roll-forming and punching	US\$35k-140k	One profile family
Cutting, bundling and QC fixtures	US\$12k-55k	System-fit controls
Freight, setup and trial coils	US\$15k-55k	Profile trials required
Indicative entry total	US\$62k-250k	Workshop 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

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

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