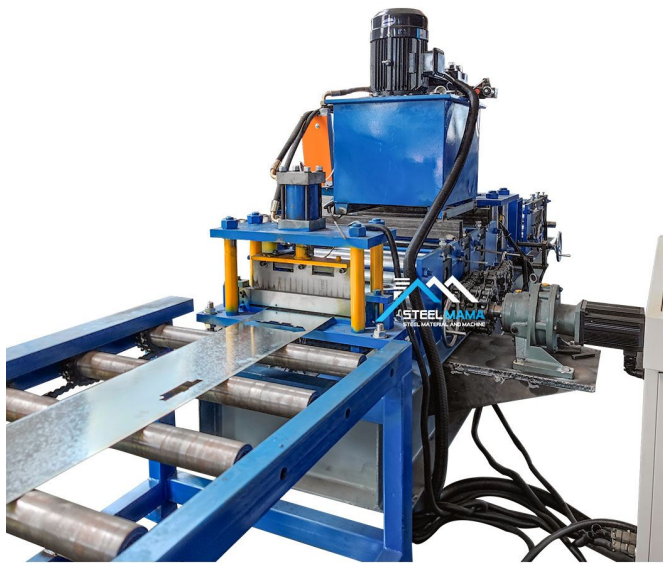




Steel Doors & Doorframes Production Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real steel doors & doorframes production line equipment.

2 sizes launch door family	0.8-1.2 mm typical skin range	1.2-1.8 mm typical frame range	10-18 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 small sheet-metal fabrication line producing residential and commercial steel door leaves with matched frames through sheet receiving, CNC shearing or blanking, punching, bending or frame roll forming, stiffener and lock preparation, spot/MIG welding, grinding, pretreatment, powder coating, core filling, hardware assembly, hanging, fit inspection and protective packing.

Why this project fits Afghanistan

- Housing, shops, schools and warehouses require durable standard steel doors and replacement frames.
- Local fabrication permits site-specific wall thickness, hanging and hardware.
- Two launch sizes keep dies, locks, hinges and finished inventory manageable.
- Door performance depends on the complete leaf-frame-hardware-coating assembly.

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 two standard single-leaf sizes and one knock-down or welded frame family. Use a 4-6 mm CNC shear, 100-160 t press brake, 40-80 t punch, frame roll former only if volume justifies it, welding fixtures, compact phosphate/powder-coat booth and oven, assembly benches and a full opening/closing test frame. Fire-rated or security certification is excluded until tested.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Standard steel door set	Leaf/frame size, handing, skin and frame BMT, core, hinges, lockset, finish and clearances	Homes, shops and institutional buildings
Replacement steel doorframe	Wall opening, throat, anchors, hinge/strike positions and coating	Renovation and contractor supply

A door-frame roll former alone is not a complete steel-door factory. Acceptance must build finished door sets and verify dimensions, diagonal, flatness, welds, hinge/lock alignment, operating force, clearances, latch engagement, coating thickness/adhesion and repeated opening. Fire, burglary and acoustic ratings require named third-party tests.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	CNC shear and sheet handling	Produces accurate leaf/frame blanks	Launch sheet range
2	Press brake and tooling	Forms leaf pans and frame returns	100-160 t entry
3	Punch press and lock/hinge dies	Makes repeatable hardware features	Two launch sizes
4	Frame roll former or dedicated brake tooling	Forms matched frame sections	Volume-based choice
5	Welding fixtures, spot and MIG welders	Controls assembly geometry	Leaf and frame jigs
6	Pretreatment, powder booth and oven	Provides durable finish	Ventilated compliant system
7	Assembly and functional test frame	Installs hardware and releases door sets	Full-cycle inspection

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 steel doors & doorframes production line equipment.



Made-in-China supplier reference: second real machine configuration for steel doors & doorframes production line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Cold-rolled or galvanized steel sheet by BMT and grade
- Stiffeners, approved cores, hinges, locks, seals and anchors
- Pretreatment chemicals, powder coating and masking
- Cartons, foam, corner guards, labels and pallets

Utilities & infrastructure

- Three-phase power sized for press brake, welders and oven
- Compressed air and welding-fume extraction
- Ventilated chemical pretreatment and powder-recovery area
- LPG/diesel/electric curing source as selected
- Dry sheet, hardware and finished-door storage

Quality, safety and environmental controls

- Release sheet BMT, flatness and coating
- Check every blank, bend, hole and frame diagonal
- Inspect weld penetration, distortion and grinding
- Control pretreatment and powder cure
- Measure coating thickness and adhesion
- Hang every sampled set and cycle lock, latch and hinges

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 factory uses flexible shearing, bending and fixtures for two door sizes; a dedicated automatic leaf/frame line comes later. Certification, building and material stock are excluded.

Component	Indicative range	Notes
Shear, press brake and punch	US\$28k-75k	Flexible workshop basis
Welding fixtures and forming tooling	US\$10k-30k	Two launch sizes
Pretreatment, powder booth and oven	US\$18k-55k	Compact finishing scope
Assembly, test, freight and installation	US\$12k-35k	Door-set acceptance
Indicative installed low-entry total	US\$68k-195k	Building, generator and working 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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