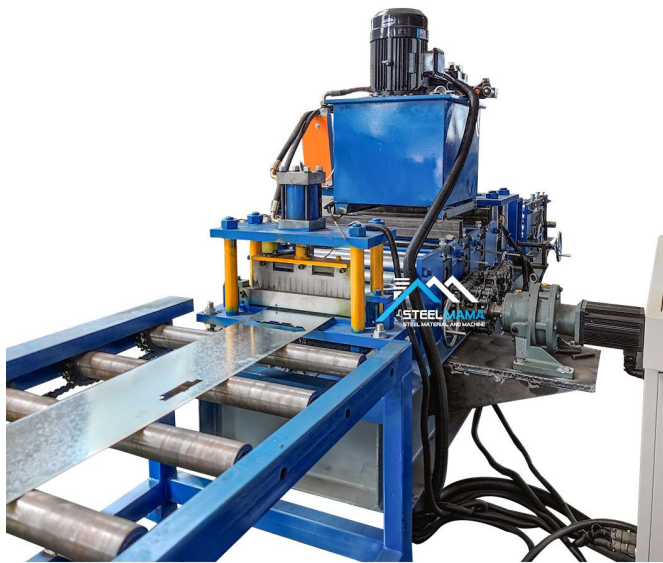


Steel Fire-Rated Doors & Frames Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real steel fire-rated doors & 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 certified steel fire-rated door leaves and frames through sheet cutting/punching, bending, reinforcement and hardware preparation, insulated-core installation, welding/assembly, coating, hardware fitting, dimensional checks and fire-test documentation.

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

Do not claim a fire rating without a tested door-set design. Start with one certified or testable size/family and a complete frame, leaf, core, seals, hinges, closer and lock specification; independent fire testing governs the commercial product.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Steel fire-rated doors and frames	Door-set size, steel thickness, core, frame, hinges, seals, closer/lock, smoke control, coating, fire rating and installation detail	Hospitals, hotels, warehouses, schools, generators rooms and commercial buildings

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Sheet laser/shear/punch and press brake	Forms leaf/frame components	Certified design dimensions
2	Door/frame assembly jigs	Controls squareness and seam fit	Set-specific tolerances
3	Core/seal/hardware station	Builds functional door-set	Approved component list
4	Coating line	Protects steel surfaces	Coating thickness/finish
5	Door-set QC tools	Releases tested configuration	Operation/gaps/documentation

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 fire-rated doors & frames line equipment.



Made-in-China supplier reference: second real machine configuration for steel fire-rated doors & frames line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Galvanised/cold-rolled steel sheet, qualified fire core, hinges, locks, closers, intumescent/smoke seals, fasteners, coating and packaging

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

- Build only to an approved door-set design and tested component combination
- Check leaf/frame squareness, gaps, welds, core continuity, seals and hardware operation
- Maintain test certificates and installation detail; fire rating requires independent evidence

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

A fire door is a tested system, not just a steel door filled with insulation. The rating belongs to the full door-set and its installation.

Component	Indicative range	Notes
Sheet cutting, bending and assembly cell	US\$35k-140k	Small/medium door workshop
Core, coating, hardware and QC	US\$30k-120k	Certified component scope
Freight, setup, fixtures and testing	US\$25k-100k	Door-set validation required
Indicative total	US\$90k-360k	Workshop and component 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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