

Reusable Steel Concrete Formwork Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real reusable steel concrete formwork 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

Fabricates reusable steel concrete-formwork panels, walers, brackets and connection hardware by plate cutting, punching, stiffener forming, jigged welding, face preparation, coating, assembly and dimensional inspection.

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

Build around standardized panel/module dimensions and one approved concrete-pour system. Confirm design loads, tie pattern, weld procedure, face flatness, release-agent compatibility, crane handling and contractor rental demand before adding automation.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Reusable steel concrete formwork	Panel/module size, skin plate, stiffener layout, tie/connection pattern, concrete pressure rating, face flatness, coating, lifting points and reuse cycle	Building contractors, precast yards, infrastructure, rental fleets, housing projects and concrete specialists

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	CNC plate cutting/punching	Cuts panel components	Hole/panel tolerance
2	Press brake/profile cell	Forms stiffeners and edges	Section consistency
3	Welding fixtures	Builds flat panels	Weld/flatness control
4	Grinding/coating station	Protects concrete face	Face finish/coating
5	Panel gauge/load fixture	Releases reusable modules	Flatness/connection test

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 reusable steel concrete formwork line equipment.



Made-in-China supplier reference: second real machine configuration for reusable steel concrete formwork line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Steel plate and sections, tie/connection hardware, welding consumables, coatings, grinding abrasives, labels and packing separators

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

- Approve engineered drawings, concrete pressure and connection layout before manufacture
- Control skin thickness, panel flatness, weld distortion, tie-hole pattern, lifting points and coating
- Test connection fit, repeated assembly, face finish and representative load/deflection 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

Reusable formwork earns its value through accurate flat panels and reliable connections over many cycles. Poor welding distortion creates expensive concrete defects.

Component	Indicative range	Notes
CNC cutting, bending and welding fixtures	US\$70k-250k	Modular formwork panels
Face finishing, coating and QC	US\$30k-120k	Reuse/flatness control
Handling, setup and trial tooling	US\$25k-90k	Load-tested modules
Indicative project total	US\$125k-460k	Workshop and steel 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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