

Concrete Block & Interlock Moulds Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real concrete block & interlock moulds line equipment.

approved drawing market gate	defined mould family launch scope	trial cast 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 hardened-steel block and interlock mould sets through CAD design, CNC/EDM or precision machining, heat treatment, grinding, assembly, press-fit testing and concrete cycle-life 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

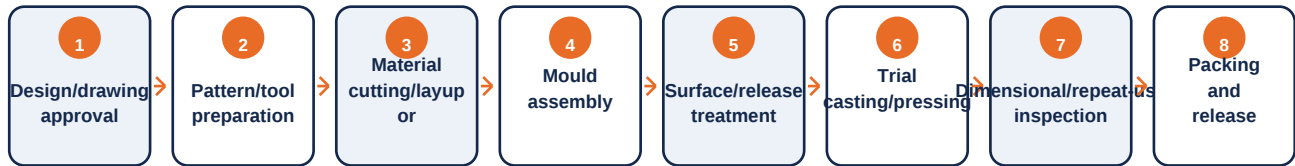
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

This is precision tooling for a defined vibropress. Confirm exact machine model, pallet size, vibration/press force, product geometry, wear surfaces, heat treatment and local spare demand before tool manufacture.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Concrete block and interlock moulds	Vibropress model/pallet size, cavity geometry, hardened steel grade, wear plates, heat treatment, clearances, product height, output cycle and service life	Concrete block and paver plants, interlock yards, building-material producers and equipment service workshops

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	CAD/CAM design station	Matches exact press system	Pallet/cavity geometry
2	CNC/EDM machining cell	Forms precise cavities	Tolerance/wear surfaces
3	Heat-treatment service	Hardens tool steel	Specified hardness
4	Grinding/assembly bench	Sets mould clearances	Fit/parallelism
5	Vibropress trial	Checks production mould	Block/paver cycle quality

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 concrete block & interlock moulds line equipment.



Made-in-China supplier reference: second real machine configuration for concrete block & interlock moulds line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Hardened tool steel, wear plates, fasteners, shims, machining/EDM consumables, heat-treatment service, gauges and packing

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

- Design only against a confirmed vibropress/pallet and actual product drawings
- Control cavity dimensions, hardness, wear plates, clearances, grinding quality and assembly parallelism
- Trial on the target press and monitor first production cycles for fill, release, wear and block dimensions

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 block mould is not universal. Precision, hardness and press compatibility decide whether it produces saleable blocks or continuous stoppages.

Component	Indicative range	Notes
CAD/CAM and precision machining	US\$25k-100k	Press-specific tooling
Heat treatment, grinding and gauges	US\$15k-70k	Wear/fit control
Trial, setup and tooling stock	US\$10k-40k	Machine compatibility
Indicative entry total	US\$50k-210k	Workshop and advanced CNC/EDM 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

- <https://www.alibaba.com/showroom/concrete-block-mould.html>
- https://www.made-in-china.com/products-search/hot-china-products/Precast_Concrete_Mould.html