



Concrete Pavers & Curbstones Production Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real concrete pavers & curbstones production line equipment.

QT4-15 class entry press basis	2 moulds launch products	5-7 core operating crew	7-28 days controlled curing
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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 concrete-products plant producing vibro-pressed interlocking pavers and selected curbstones from tested cement, graded sand, aggregate, water and approved pigment through aggregate storage, controlled batching, pan mixing, face-mix preparation where required, mould feeding, hydraulic vibration pressing, pallet transfer, protected curing, demoulding, dimensional and strength testing, stacking and dispatch.

Why this project fits Afghanistan

- Local aggregate, sand and cement support road, compound and municipal products.
- Interchangeable moulds allow paver and curb production without duplicating the full plant.
- Controlled compaction and curing improve durability over informal casting.
- Mould quality, mix moisture and cured strength matter more than headline cycle speed.

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 one common interlocking paver and one curb profile using separate proven moulds. Screen a semi-automatic QT4-15-class press with aggregate bins, calibrated batching, JS500 or pan mixer, conveyors, pallets, manual or simple stacker, curing racks/yard and concrete laboratory. Contract output by product dimensions and accepted pieces per shift, not theoretical machine cycles.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Interlocking concrete paver	Approved shape, thickness, colour, dimensional tolerance, strength, absorption and abrasion	Courtyards, walkways, parking and municipal paving
Precast concrete curbstone	Approved section, length, strength, straightness, edge and finish limits	Road, drainage, landscape and compound projects

One machine can form many products only with correct moulds, feeding boxes and mix designs. Acceptance uses local materials and records moisture, batch mass, cycle time, vibration, green handling loss, daily accepted output, dimensions, absorption, compressive or flexural strength, abrasion and freeze/thaw or sulfate exposure where specified. Curing area and pallets must match daily output.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Aggregate bins and calibrated batcher	Meters graded stone and sand	Moisture-corrected recipes
2	JS500 or pan mixer	Produces low-slump uniform concrete	Matched to press demand
3	Optional face-mix mixer	Prepares coloured wearing layer	Only for two-layer pavers
4	QT4-15-class block press	Vibrates and hydraulically compacts moulded products	Product-specific cycle
5	Paver and curb moulds	Defines geometry and surface	Two launch moulds
6	Pallet conveyor and stacker	Moves green products safely	Semi-automatic entry
7	Curing racks and yard systems	Maintains moisture and protects strength gain	Full daily production inventory
8	Concrete product laboratory	Checks materials, dimensions and durability	Named product standards

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 pavers & curbstones production line equipment.



Made-in-China supplier reference: second real machine configuration for concrete pavers & curbstones production line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Released cement with consistent strength class
- Washed graded sand and aggregates with controlled moisture
- Potable mixing water and approved admixture/pigment
- Production pallets, mould wear parts, straps and labels

Utilities & infrastructure

- Three-phase power and hydraulic service area
- Level reinforced machine foundation and covered production bay
- Aggregate drainage and dust control
- Protected moist-curing area with reliable water
- Forklift or pallet handling and safe finished-stock yard

Quality, safety and environmental controls

- Test cement, aggregate grading, moisture, clay and salts
- Calibrate batcher and correct water for aggregate moisture
- Control mixer time and concrete consistency
- Inspect mould wear, fill and compaction
- Protect curing and test products at specified ages
- Release dimensions, appearance, strength, absorption and abrasion

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 plant uses semi-automatic handling, two high-demand moulds and a local curing yard while retaining calibrated batching and product testing. Full automation, steam curing, building and working capital are excluded.

Component	Indicative range	Notes
Batching, mixer and material conveyors	US\$15k-38k	Local aggregate route
Semi-automatic press and two moulds	US\$20k-52k	QT4-15-class basis
Pallets, curing, handling and laboratory	US\$10k-28k	Daily-output matched
Freight, foundation, installation and spares	US\$12k-35k	Local civil works
Indicative installed low-entry total	US\$57k-153k	Land, building and working capital 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://sdbrickmachine.en.made-in-china.com/product/YditGmpljgrn/China-Qt4-15-Automatic-Concrete-Cement-Interlock-Paver-Brick-Block-Making-Machine-Price.html>

- <https://cynmachinery.en.made-in-china.com/product/qSHEBsKJfero/China-Qt4-15-Full-Automatic-Paving-Stone-Curbs-Forming-Concrete-Block-Machine.html>