

Injection-Moulded Plastic Paver Moulds

Complete Turnkey Business Proposal



Made-in-China supplier reference: real injection-moulded plastic paver moulds equipment.

approved pattern 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 durable plastic paver moulds by engineering a steel tool, then injection moulding PP/ABS mould trays, cooling, trimming, dimensional checks and repeated concrete-casting tests.

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

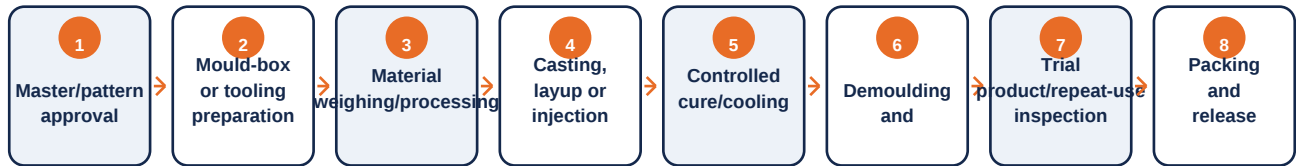
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

This is a tooling-plus-injection project, not a simple casting workshop. Validate steel tool design, resin grade, shrinkage, wall/rib geometry, cooling, concrete vibration and tray cycle life before machinery selection.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Injection-moulded plastic paver moulds	PP/ABS grade, tray geometry, wall/rib thickness, steel-tool design, shrinkage, cooling, paver pattern, stiffness, vibration resistance and cycle life	Concrete-paver plants, landscaping product makers, block yards and construction-material suppliers

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Tool design/CNC or outsourced tool approval	Creates steel injection tool	Shrinkage/cooling design
2	Injection moulding machine	Moulds plastic trays	Clamp/shot capacity
3	Temperature control/cooling	Stabilises mould geometry	Cooling cycle
4	Trim/inspection station	Releases trays	Wall/rib/dimension
5	Concrete trial rig	Checks mould life	Vibration/release cycles

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 injection-moulded plastic paver moulds equipment.

Powerjet



Made-in-China supplier reference: second real machine configuration for injection-moulded plastic paver moulds.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- PP/ABS resin, colour masterbatch, steel injection tooling, release/cleaning materials, packaging and tool-maintenance consumables

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 tool drawings and run sample shots before accepting a mould
- Control resin moisture/grade, shot weight, cooling, shrinkage, wall/rib geometry and flash
- Test paver fill/release, vibration resistance, tray stiffness and repeated production cycles

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

Plastic paver trays are only as good as their steel tool and cooling design. Do not buy an injection press without a validated mould-tool package.

Component	Indicative range	Notes
Injection machine and temperature control	US\$35k-130k	Tray-size dependent
Steel tool and finishing/inspection	US\$25k-120k	Tooling drives quality
Trials, freight and spares	US\$10k-45k	Cycle-life validation
Indicative project total	US\$70k-295k	Workshop, resin and extra tools 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-paver-mould.html>
- https://www.made-in-china.com/products-search/hot-china-products/Mold_Edm_Machine.html