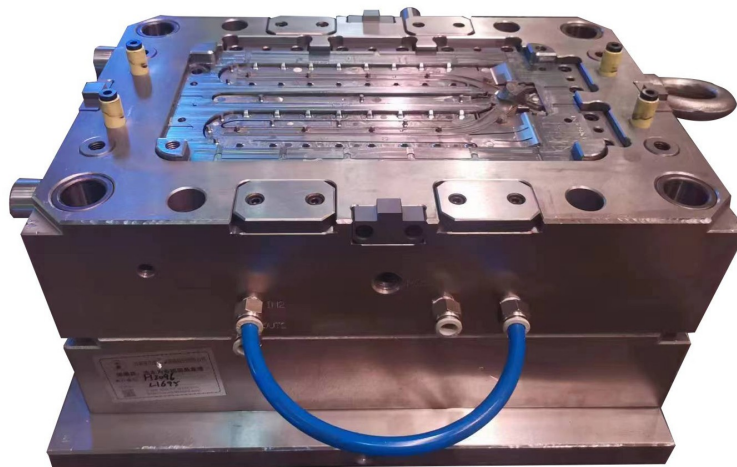


Household-Plastic Injection-Mould Workshop

Complete Turnkey Business Proposal



Made-in-China supplier reference: real household-plastic injection-mould workshop equipment.

approved drawing tooling gate	trial sample release gate	machine match compatibility	batch record 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

Designs and manufactures injection moulds for household plastic products such as buckets, basins, hangers, storage items and small utensils through product engineering, DFM review, mould-base selection, CNC/EDM machining, cooling/slider fitting, polishing, injection trials and cycle validation.

Why this project fits Afghanistan

- Tooling is made only against an approved drawing and target production machine.
- Trial samples, dimensions and cycle-life evidence must be approved before final release.
- A small initial tool family keeps capital and spare-part complexity controlled.

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 simple high-demand items and one named injection machine range. Confirm resin, product weight, wall thickness, mould cavities, hot/cold runner, gate, cooling, ejection, machine clamp force, shot capacity and cycle target before machining.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Household-plastic injection moulds	Named injection-machine range, resin, product weight and wall thickness, cavity count, runner/gate, cooling, ejection, surface texture and cycle time	Household-plastic factories, contract moulding shops, distributors and replacement-tool buyers

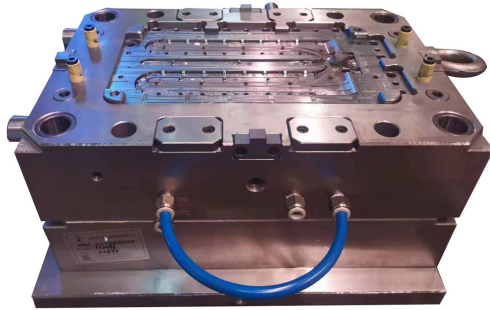
Supplier scope, material grade, tooling ownership, trial samples, utilities and acceptance criteria must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Product/DFM design station	Matches product and mould to machine	Clamp force and shot size
2	CNC/EDM machining cell	Forms cores and cavities	Part geometry
3	Mould-base assembly bench	Fits guides, sliders and ejection	Movement and clearance
4	Cooling/polishing station	Completes mould surfaces and circuits	Cycle and finish
5	Injection trial machine	Validates moulded parts	Fill, warp and cycle time

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 household-plastic injection-mould workshop equipment.



Made-in-China supplier reference: second real machine configuration for household-plastic injection-mould workshop.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- P20/718/H13 or approved steel, mould bases, guides, springs, ejectors, cooling fittings, hot-runner parts where selected, polishing consumables, gauges and packing

Utilities & infrastructure

- Three-phase electricity, compressed air where required, guarded machining, covered tool storage and safe finished-tool handling
- Documented maintenance, critical wear spares, calibrated gauges and product-specific safety controls

Quality, safety and environmental controls

- Approve product DFM, resin shrinkage and target machine before cutting steel
- Control cavity/core dimensions, cooling circuits, gates, ejection, sliders, polish, texture and safety interlocks
- Run representative resin trials; verify part weight, flash, sinks, warp, cycle time, ejection and repeatable assembly

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

An injection mould workshop requires a real trial press and disciplined DFM. A visually attractive cavity cannot compensate for incorrect cooling, gate, shrinkage or ejection.

Component	Indicative range	Notes
Design, CNC/EDM and mould-base tooling	US\$45k-180k	Simple household mould family
Assembly, cooling, polishing and gauges	US\$20k-85k	Function and surface control
Injection trials and first spare stock	US\$15k-60k	Target-machine validation
Indicative entry total	US\$80k-325k	Injection presses, building and working capital excluded

Implementation sequence

Phase 1	2-4 weeks	Confirm product drawings, target machine, buyer samples, site and utilities
Phase 2	3-8 weeks	Approve tool design, material grade, machining route and acceptance samples
Phase 3	6-18 weeks	Manufacture, inspect, trial and document the contracted tooling
Phase 4	2-6 weeks	Install, trial with buyer material, train operators and release production

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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