

Ceramic Sanitaryware Mould Workshop

Complete Turnkey Business Proposal



Made-in-China supplier reference: real ceramic sanitaryware 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

Produces plaster or resin moulds for ceramic basins, toilets, cisterns and accessories through master-model preparation, shrinkage allowance, multi-part mould casting, drying, fitting, slip-casting trials and dimensional checks.

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

Begin with one basin or accessory design and a defined casting body. Confirm master model, clay shrinkage, number of mould parts, drain and overflow geometry, demoulding route, drying regime, glaze allowance and actual kiln compatibility before expanding.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Ceramic sanitaryware moulds	Approved product drawing, clay shrinkage allowance, multipart split, drain/overflow geometry, casting-wall thickness, drying and glaze allowances	Ceramic sanitaryware plants, bathroom-product workshops, building-material suppliers and hotels/housing projects

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	Master-model bench	Creates the approved product master	Shrinkage-controlled geometry
2	Plaster/resin mixing station	Prepares mould material	Water ratio and cure
3	Mould casting tables	Forms multi-part mould sections	Split and thickness
4	Drying racks/chamber	Stabilizes mould moisture	Uniform drying
5	Slip-casting trial bench	Checks release and product form	Drain, overflow and wall thickness

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 ceramic sanitaryware mould workshop equipment.

 **Haineng**



Made-in-China supplier reference: second real machine configuration for ceramic sanitaryware mould workshop.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Pottery plaster or approved resin, master materials, release agents, locating pins, fasteners, abrasives, packaging and representative ceramic body

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

- Control master dimensions and calculated shrinkage allowance before mould fabrication
- Check parting lines, locating pins, drain/overflow cores, absorbency or resin surface, drying and mould closure
- Trial cast with the contracted body; inspect green dimensions, demoulding, drying distortion and fired sample fit

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

Ceramic moulds cannot be designed from a finished-product size alone: clay shrinkage, casting rate, drying and firing movement must be proven on the target body.

Component	Indicative range	Notes
Master and mould-casting workshop tools	US\$5k-20k	One basin/accessory family
Drying, fitting and trial-casting fixtures	US\$4k-18k	Body-specific validation
Materials, samples and documentation	US\$2k-8k	Shrinkage and glaze trials
Indicative entry total	US\$11k-46k	Kiln, slip house and sanitaryware line 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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- https://www.made-in-china.com/products-search/hot-china-products/Mold_Edm_Machine.html