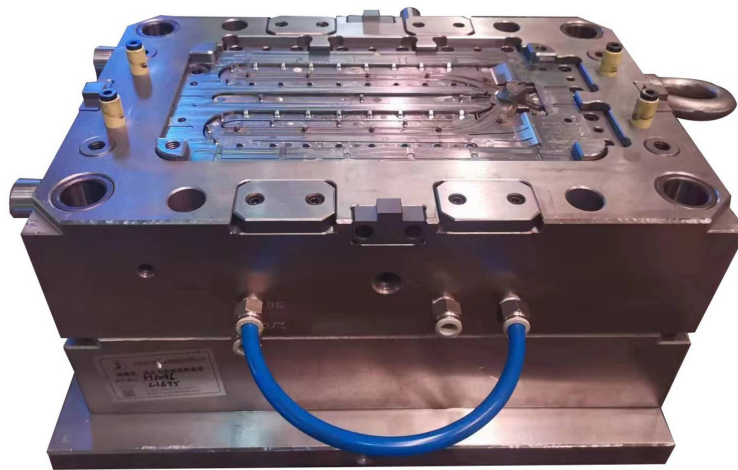


General CNC/EDM Mould & Die Toolroom

Complete Turnkey Business Proposal



Made-in-China supplier reference: real general cnc/edm mould & die toolroom equipment.

confirmed scope investment gate	representative trial acceptance	site-ready implementation	quality 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

A general-purpose precision toolroom providing CNC milling, EDM, grinding, drilling, fitting, metrology and tryout services for moulds, dies, jigs and repair components. It is a service workshop, not a guarantee that every advanced mould or die can be made without specialist design, trials and target-machine access.

Why this project fits Afghanistan

- Confirm the precise customer product, target machine or plant flow before procurement.
- Approve representative trials, measured outputs and critical safety/quality requirements before release.
- Document specifications, operating settings, inspections and maintenance responsibilities.

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

Launch with repair parts, jigs, simple mould inserts and small press/injection tools. Screen one reliable VMC, conventional or wire EDM matched to work, surface grinder, toolroom lathe, drill/tap station, fitting bench, measuring instruments, coolant management and controlled customer drawing process.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
CNC/EDM mould and die tooling services	Defined work envelope, material grade, customer drawing, machining tolerance, heat treatment route, measurement method, trial machine and service scope	Plastic, metal, construction-material and machinery workshops requiring local repair, inserts, jigs and small production tools

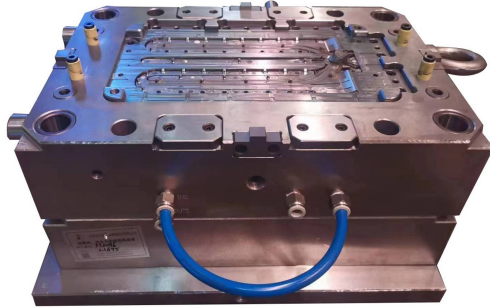
Supplier scope, source materials, utility loads, acceptance test, installation, spare parts and operating responsibility must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	CAD/CAM workstation	Controls drawing and machining files	Revision traceability
2	CNC machining centre	Mills tool components	Work envelope/tolerance
3	Wire/sinker EDM	Cuts complex tool features	Material and profile
4	Surface grinder/toolroom lathe	Finishes fits and repair parts	Flatness/runout
5	Metrology and fitting bench	Releases measured tools	Gauge-controlled acceptance

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 general cnc/edm mould & die toolroom equipment.



Made-in-China supplier reference: second real machine configuration for general cnc/edm mould & die toolroom.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Tool steel, aluminium, mould bases, electrodes/wire, cutters, grinding wheels, coolants, gauges, fasteners, heat-treatment service and packing

Utilities & infrastructure

- Stable three-phase electricity, protected material/finished-product storage, calibrated quality-control instruments and appropriate process ventilation
- Documented maintenance, critical spares, site safety procedures and product-specific environmental controls

Quality, safety and environmental controls

- Accept only controlled customer drawings with a realistic tolerance and trial route
- Control material certificates, machining dimensions, EDM condition, grinding flatness, fit, hardness route and revision records
- Measure every released component; trial on the target machine where possible and document any limits or corrective work

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 general toolroom must publish its actual envelope and tolerance. It should not promise high-cavity or critical dies without the right machine, design and tryout evidence.

Component	Indicative range	Notes
VMC, CAD/CAM and basic cutting tools	US\$45k-140k	Core small toolroom
EDM, grinder, lathe and fitting equipment	US\$35k-130k	Capability-dependent
Metrology, coolant, safety and initial stock	US\$15k-55k	Essential quality scope
Indicative entry total	US\$95k-325k	Large machining, building and specialist staff 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

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