



CNC Stone-Carving Templates & Masters Workshop

Complete Turnkey Business Proposal



Made-in-China supplier reference: real cnc stone-carving templates & masters workshop 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

Produces CNC-carved Afghan-stone templates, carving masters, architectural patterns and repeatable guide forms through digital scanning/drawing, stone selection, fixturing, CNC routing, hand finish, dimensional check and protected packing.

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

Start with one architectural stone family such as panels, borders, calligraphy or repeated ornaments. Confirm stone type and grain, blank size, cutter route, relief depth, mounting, dust/water control, finish sample and intended replication method before machining.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
CNC stone-carving templates and masters	Stone type, blank dimensions, approved drawing or scan, relief depth, cutter route, tolerances, finish, mounting and repeat-use requirement	Stone workshops, mosques and heritage projects, facade contractors, monument makers and decorative-product firms

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	3D/CAD preparation station	Creates carveable drawing and toolpaths	Relief and scale
2	Stone CNC router	Roughs and finishes the master	Working area and spindle
3	Vacuum/fixture table	Secures stone blanks	Safe repeat positioning
4	Hand-finish/polish bench	Refines carved detail	Surface sample
5	Measurement and packing station	Checks and protects master	Dimension and edge safety

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 cnc stone-carving templates & masters workshop equipment.



Made-in-China supplier reference: second real machine configuration for cnc stone-carving templates & masters workshop.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Selected Afghan marble/limestone/soapstone as proven, sacrificial backing, cutters, coolant/water where used, abrasives, sealers, anchors 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

- Approve a stone sample and carving finish before repeating a design
- Control stone defects, clamping, cutter wear, toolpath, depth, edge chipping, dust/water and final dimensions
- Trial the master in its intended moulding, replication or installation process; record surface transfer and repeat-use condition

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

Stone template work succeeds on faithful reproduction and durable carving, not machine size. Natural defects and finish approval must be part of every order.

Component	Indicative range	Notes
3D/CAD, CNC stone router and fixturing	US\$18k-70k	Small/medium work envelope
Dust/water control, finish and measurement	US\$7k-28k	Safety and quality scope
Cutters, stone samples and setup	US\$3k-12k	Design-specific trials
Indicative entry total	US\$28k-110k	Building, large bridge saw and stone inventory 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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- https://www.made-in-china.com/products-search/hot-china-products/Industrial_Production_Line.html