

Roll-Forming Rollers & Tooling Workshop

Complete Turnkey Business Proposal



Made-in-China supplier reference: real roll-forming rollers & tooling workshop equipment.

target machine compatibility	released drawing design gate	trial sample acceptance	tool 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

Manufactures roll-forming roller sets, spacers, shafts and cut-off/support tooling for metal roofing, purlins, studs and sheet profiles through profile/pass design, tool-steel machining, heat treatment, grinding, assembly and trial forming.

Why this project fits Afghanistan

- Tooling must be designed around the target production machine and released buyer drawing.
- First-off samples, measured dimensions and repeat-cycle evidence must be accepted before production release.
- Start with one high-demand product family and retain tool drawings, settings and maintenance records.

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 roofing, stud or simple channel profile for a named roll-former. Confirm coil thickness and grade, strip width, pass schedule, shaft diameter, station count, forming direction, tolerances, cut-off interface and surface protection before machining rollers.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Roll-forming rollers and tooling	Named roll-former, coil grade/thickness and width, profile drawing, pass schedule, shaft size, station count, tolerance, cut-off and coating protection	Roofing-sheet, purlin, stud, duct and metal-profile producers plus roll-former repair workshops

Supplier scope, dimensions, material grade, target-machine compatibility, sample acceptance, utilities and delivery must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Profile/pass-design CAD station	Creates forming sequence	Coil/profile match
2	CNC turning/milling cell	Machines roller contours	Pass geometry
3	Heat-treatment service	Protects tool surfaces	Wear life
4	Grinding/shaft assembly bench	Sets concentricity and spacing	Runout/alignment
5	Roll-forming trial station	Checks formed strip	Profile, twist and coating damage

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 roll-forming rollers & tooling workshop equipment.



Made-in-China supplier reference: second real machine configuration for roll-forming rollers & tooling workshop.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Tool steel, shafts, bearings/spacers, fasteners, heat-treatment service, grinding consumables, gauges, representative coated coil and packing

Utilities & infrastructure

- Stable three-phase power, guarded machining, calibrated measuring tools, covered material/tool storage and safe lifting/handling
- Documented maintenance, critical wear spares, approved coolants/lubricants and product-specific safety controls

Quality, safety and environmental controls

- Approve coil material, profile and pass schedule for the named roll-former before machining
- Control roller contour, runout, shaft fit, spacers, forming direction, surface finish and cut-off interface
- Trial with target coil; inspect profile dimensions, twist, bow, scratches, coating damage, scrap and repeatability

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

Roll-forming rollers are a matched set, not individual wheels. Pass design and target coil control profile accuracy and coating damage.

Component	Indicative range	Notes
Pass design, CNC turning/milling and rollers	US\$25k-100k	One simple profile family
Heat treatment, grinding, shafts and gauges	US\$12k-50k	Runout and wear control
Trial coil, setup and correction	US\$6k-25k	Named-machine validation
Indicative entry total	US\$43k-175k	Roll-forming machine and building 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/Mold_Edm_Machine.html