

Chain-Link Fence Production Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real chain-link fence production line equipment.

50-140 m2/h supplier entry range	2.5-3.0 mm starter wire range	50-60 mm starter mesh aperture	3-5 entry workforce
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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 micro/small wire-weaving line converting purchased galvanized or PVC-coated steel wire into rolled diamond-mesh chain-link fence through wire-coil receiving and coating inspection, payoff, controlled feeding through matched forming dies, single- or double-wire spiral forming, interweaving, automatic length measurement, knuckled or twisted edge finishing, roll take-up and compaction, dimensional and coating inspection, strapping and traceable dispatch. Wire galvanizing and PVC extrusion are separate upstream processes.

Why this project fits Afghanistan

- Homes, farms, compounds, schools, sports grounds and industrial sites use chain-link fencing in standard rolls.
- Buying coated wire avoids the environmental and capital burden of a galvanizing or PVC-extrusion plant.
- One mesh aperture, wire diameter and roll width simplify dies, setup and inventory.
- Coating integrity, mesh geometry, edge finish and actual roll dimensions drive buyer trust.

Sanaatchi delivery scope

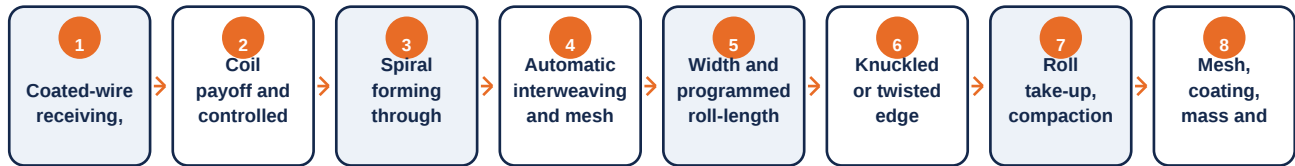
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning
- International logistics, customs documentation, operator training, spare parts, and after-sales support

Recommended configuration

Launch one standard security-fence roll using purchased galvanized wire-for example 2.5-3.0 mm wire, 50-60 mm mesh, 2 m width and 15-20 m roll length-subject to buyer confirmation. Screen one supported double-wire PLC machine with two payoffs, matched die set, automatic cut and knuckle/twist edge module, roll take-up/compactor, wire and mesh gauges, calibrated roll-length counter and strapping. Add wire drawing, galvanizing or PVC coating only as a later separately controlled project.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Galvanized chain-link fence roll	One wire diameter, mesh aperture, width, length, edge type, coating and roll-mass specification	Construction merchants, farms, compounds and contractors
PVC-coated chain-link roll	Separate core wire, finished diameter, colour, coating adhesion and weathering approval	Sports, residential and landscape projects after buyer approval

Fence-machine capacity depends on wire diameter, mesh aperture, roll width and edge style. Acceptance uses the exact contracted coated wire and verifies stable weaving, aperture, width, roll length, edge knuckle/twist, broken wires, spirals, coating damage, roll mass, take-up quality and a representative tensioned installation. Galvanized and PVC wire specifications must not be mixed.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Twin wire payoffs and tension guides	Feeds coated wire without scratching or tangles	Starter wire range
2	Double-wire PLC chain-link machine	Forms and interweaves diamond spirals	2 m launch width
3	Matched forming dies and guides	Defines mesh aperture and wire path	50-60 mm launch mesh
4	Automatic cut and edge module	Finishes knuckled or twisted roll edges	One edge style at launch
5	Roll take-up and compactor	Forms tight transportable rolls	15-20 m roll basis
6	Wire, mesh and coating gauges	Releases dimensions and surface	Buyer methods
7	Length counter, scale and strapping tools	Controls roll quantity and dispatch	Calibrated traceability

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 chain-link fence production line equipment.



Made-in-China supplier reference: second real machine configuration for chain-link fence production line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Purchased galvanized or PVC-coated low-carbon steel wire by full specification
- Straps, wrap, core/supports and durable roll labels
- Forming dies, cutters, guides and wear parts by wire/mesh size
- Lubricant only where approved without damaging coating

Utilities & infrastructure

- Stable three-phase power and protected controls
- Dry wire-coil store with safe coil lifting and payoff space
- Long guarded machine footprint with safe roll discharge
- Ventilation and housekeeping for any coating dust or wire debris
- Finished-roll storage protected from deformation and corrosion

Quality, safety and environmental controls

- Release wire diameter, tensile condition and coating mass/thickness/adhesion
- Verify die, feed tension and edge-module setup
- Measure aperture across the roll and finished width/length
- Inspect spirals, joints, broken wires and knuckled/twisted edges
- Check coating damage, corrosion protection, roll mass and compaction
- Install and tension a representative fence section before acceptance

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

The lowest credible entry buys finished galvanized wire and makes one standard roll on one double-wire machine. Wire drawing, galvanizing, PVC coating, posts, building and working wire stock are excluded.

Component	Indicative range	Notes
Double-wire machine, payoffs and die set	US\$10k-25k	One mesh and width family
Edge module, roll take-up and compactor	US\$4k-11k	Knuckle or twist launch style
Inspection, handling and strapping	US\$2k-6k	Calibrated roll release
Freight, installation and starter spares	US\$4k-12k	Compact workshop
Indicative installed low-entry total	US\$20k-54k	Wire drawing/coating, building and wire stock 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

- <https://ap-kaiye.en.made-in-china.com/product/PKUxwguTmJRm/China-Automatic-Chain-Link-Fence-Making-Machine-with-Motor-PLC-Pump-for-Basketball-Court-Fence.html>
- <https://hongwiremesh.en.made-in-china.com/product/jpkYKCZywcWr/China-Full-Automatic-CNC-Chain-Link-Fence-Machine-PLC-System.html>