

Canvas & Sackcloth Weaving Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real canvas & sackcloth weaving line machinery.

4 looms starter heavy-weaving set	190-280 cm screened reed width	120-380 rpm supplier loom range	14-24 entry operators
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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 medium-industrial heavy-fabric weaving line converting specified coarse cotton or cotton-blend warp and weft yarn into canvas, tarpaulin base cloth or sackcloth through yarn receiving, sectional warping, warp sizing where required, drawing-in, heavy-duty rapier weaving, inspection, mending, metering, rolling or folding and bale packing. Coating, waterproofing, printing and bag sewing are separate downstream modules.

Why this project fits Afghanistan

- Afghan tents, covers, workwear, transport and agricultural markets use robust woven fabrics.
- Coarse cotton yarn can enter a durable higher-value product rather than commodity yarn sales.
- A single weave and width simplify warp preparation and spare-part inventory.
- Bag conversion or waterproof coating can be added only after woven-cloth quality is stable.

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 contracted plain-weave canvas or sackcloth construction. Screen one sectional warper, outsourced sizing at first where practical, four heavy-duty 190-280 cm rapier looms with suitable beams, reeds and dobby, one inspection/rolling machine, compressor and humidity control. Do not select a 5-6 m technical-textile loom unless the buyer actually needs that width.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Cotton canvas or tarpaulin base cloth	One buyer-approved width, weave, yarn count, ends/picks, GSM, tensile and roll length	Tent, cover, transport and workwear converters
Sackcloth expansion	Separate construction and air-permeability specification	Agricultural and industrial bag makers after trials

Canvas performance depends on yarn strength and abrasion, warp sizing, loom beat-up force, reed plan and construction density. Acceptance must use the contracted yarn and measure width, GSM, ends/picks, tensile, tear, abrasion, air permeability where relevant, defects and roll length. Waterproofness is not created by weaving alone.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Yarn creel and sectional warper	Builds controlled heavy-yarn warp sections	One launch construction
2	Sizing route and beam handling	Strengthens and transfers warp where required	Outsource first or install after study
3	Drawing-in and tying tools	Prepares healds, drop wires and reed	Manual entry scope
4	Four heavy-duty rapier looms	Forms dense canvas or sackcloth	190-280 cm screened width
5	Dobby, weft feeders and compressor	Controls shed and heavy weft insertion	Matched to construction
6	Humidification and lint extraction	Stabilizes cotton yarn and housekeeping	Room-specific design
7	Inspection, metering and rolling machine	Grades and forms dispatch rolls	Illuminated inspection table
8	Fabric laboratory	Verifies construction and strength	Buyer test methods

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 canvas & sackcloth weaving line machinery.



Made-in-China supplier reference: second real industrial configuration for canvas & sackcloth weaving line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Released coarse cotton or cotton-blend warp and weft yarn by count, ply, twist and strength
- Warp and cloth beams, paper tubes and roll wrap
- Sizing material only for an approved installed route
- Reeds, healds, drop wires, rapier tapes, labels and loom spares

Utilities & infrastructure

- Stable three-phase electricity with transformer, power-quality and motor-starting study
- Central dust or lint extraction with fire-safe collection and housekeeping
- Controlled temperature and humidity suited to the confirmed fibre, yarn or fabric
- Dry covered raw-material and finished-product storage with lot traceability
- Compressed air, process water, steam and wastewater treatment where the selected process requires them

Quality, safety and environmental controls

- Verify yarn count, ply, twist, tensile, abrasion and package condition
- Control warp tension, length, sizing pickup and beam build
- Record loom efficiency and warp/weft stops
- Inspect weave, width, ends/picks, GSM and defects
- Test tensile, tear and abrasion against the buyer method
- Grade and trace every roll to yarn lots and loom

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

Lowest entry weaves one plain construction on four economical heavy-duty rapier looms and outsources sizing. Coating, waterproofing, bag sewing, building and yarn working stock are excluded.

Component	Indicative range	Notes
Sectional warper and beam handling	US\$40k-105k	One construction launch
Four heavy-duty rapier looms	US\$70k-210k	Selected width and beat-up force
Inspection, compressor, humidity and laboratory	US\$25k-70k	Essential support scope
Freight, electrical, installation and spares	US\$45k-135k	Reeds and rapier wear parts
Indicative installed project total	US\$180k-520k	Sizing plant, coating, building and yarn excluded

Implementation sequence

Phase 1	3-6 weeks	Confirm product, buyer specification, feedstock, capacity, site and utility basis
Phase 2	3-8 weeks	Run representative material and product trials and freeze the complete equipment list
Phase 3	8-24 weeks	Manufacture or refurbish, inspect and ship the approved equipment scope
Phase 4	4-16 weeks	Install, commission, train and pass contracted performance and quality 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://zbmachine.en.made-in-china.com/product/pQLUPgYcRbRl/China-Weaving-Loom-Wide-Reed-Width-5-2m-5-8m-6m-Weaving-Machine-Rapier-Loom-Weaving-Industrial-Fabric-Canvas-Glass-Fiber-Carbon-Fiber-and-Amid-Yarn-etc.html>

- <https://sohohonry.en.made-in-china.com/product/KXUnjyPckFWm/China-Weaving-Machine-Ga737A-Ga373b-Model-Rapier-Loom.html>