

Cotton Hydraulic Bale-Pressing Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real cotton hydraulic bale-pressing line equipment.

20 ton small press force	80 kg small reference bale	3-4 bales/h small reference output	4-11 kW small press motor range
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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 dedicated lint-compaction and bale-preparation line receiving released loose cotton, condensing or pre-compacting it, weighing charges, pressing to a buyer-agreed bale size and density, tying with approved wire or straps, ejecting, wrapping, coding, weighing and storing bales without mixing lots.

Why this project fits Afghanistan

- Standardized bales reduce storage volume and improve truck or container loading.
- A standalone press can serve ginning, lint-cleaning and textile-waste businesses.
- Small vertical presses offer a low entry before a cotton-standard high-density system.
- Traceable weighing and coding improve settlement with farmers, traders and spinners.

Sanaatchi delivery scope

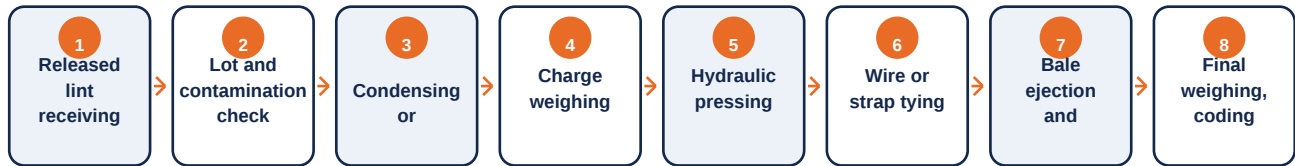
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

For a small ginnery or cleaning service, begin with one 20-ton vertical press producing about 80 kg bales at 3-4 bales/hour, floor scale, guarded manual tying and simple trolley handling. Buy a 227 kg, 4000 kN cotton-standard press only after the receiving spinner confirms bale dimensions, density and hourly tonnage.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Pressed cotton lint bale	Buyer-agreed dimensions, weight, density, wrap, ties, moisture and lot code	Spinning mills, cotton traders and exporters
Pressed cotton-waste bale	Separately graded and labelled; never mixed with lint	Recycling and low-count yarn mills

A general textile baler and a cotton-standard export press are different investments. Confirm the receiving mill's bale-opening equipment, permitted tie material, nominal weight, density, moisture and contamination limits. Never enter, reach into or work beneath an unsupported press platen.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Lint condenser or feed box	Forms even charges from loose lint	Optional for manual small-press entry
2	Charge scale	Controls nominal bale weight	Calibrated floor or hopper scale
3	Hydraulic bale press	Compacts lint to the agreed format	20-ton entry or buyer-required standard
4	Guarded tying station	Secures the compressed bale	Approved wire or strap routing
5	Hydraulic power pack	Supplies controlled pressure and movement	Pressure relief, filtration and oil cooling
6	Bale ejector and trolley	Removes bales without unsafe manual lifting	Matched to bale weight
7	Wrapping and coding station	Protects and identifies each bale	Lot, weight and date label
8	Final platform scale	Records dispatch weight	Trade calibration where required

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 cotton hydraulic bale-pressing line equipment.



Made-in-China supplier reference: second real industrial configuration for cotton hydraulic bale-pressing line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Released dry cotton lint or separately graded cotton waste
- Buyer-approved bale wire or high-strength straps
- Breathable protective bale wrap
- Lot tags, ink and traceability labels
- Hydraulic oil, filters and seal kit approved by supplier

Utilities & infrastructure

- Stable three-phase electricity matched to the confirmed motor and starting loads
- High-volume dust extraction with fire-safe ducting, collection and housekeeping
- Dry covered raw-material and finished-product storage with lot separation
- Fire detection, suitable extinguishing equipment and controlled ignition sources
- Safe access, guarding, lifting aids and preventive-maintenance workspace

Quality, safety and environmental controls

- Confirm lint moisture and absence of metal or foreign matter before pressing
- Calibrate charge and final scales
- Record pressure, cycle, bale weight and tie count
- Inspect hoses, cylinders, relief valves, guards and interlocks
- Test tie security, bale rebound and transport stability
- Keep lots separated from receiving through dispatch

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 is one 20-ton vertical press with manual pre-weighing, tying, trolley and coding. Automatic condensers and 227 kg cotton-standard high-density presses are later upgrades.

Component	Indicative range	Notes
20-ton vertical cotton press	US\$4k-10k	80 kg reference bale
Scales, trolley, tying and wrap station	US\$2k-6k	Manual entry handling
Electrical, guarding and installation	US\$2k-5k	Local floor and safe access
Freight, clearance and seal spares	US\$3k-7k	One compact press
Indicative low-entry total	US\$11k-28k	Condenser, building and lint excluded

Implementation sequence

Phase 1	2-4 weeks	Confirm feedstock, buyer specification, capacity, site utilities and test protocol
Phase 2	2-5 weeks	Run representative material trials and approve the exact machine configuration
Phase 3	5-12 weeks	Manufacture, inspect and ship the approved equipment and critical spares
Phase 4	2-6 weeks	Install, commission, train operators and validate saleable output

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://jiangsudongfang.en.made-in-china.com/product/jBQxIHlKvTRm/China-Hydraulic-Cotton-Bale-Press-Machine.html>
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