



T-Shirt Production Line

Complete Turnkey Business Proposal



Complete production-line reference for T-Shirt Production Line

1 shift entry operation	Local labor cost advantage	Phased machine additions
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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

This proposal presents a practical low-entry t-shirt production line for Afghanistan. Automated cutting, sewing, printing and QC for high-volume T-shirt manufacturing. The starting configuration prioritizes economical Chinese machinery, local fabrication of noncritical items, affordable local labor, simple buildings and phased automation.

Why this project fits Afghanistan

- Local production can replace selected imported finished goods.
- Affordable land, labor and local fabrication reduce the entry threshold.
- A one-shift starting model limits working-capital pressure.
- Modular equipment allows capacity to grow with confirmed sales.

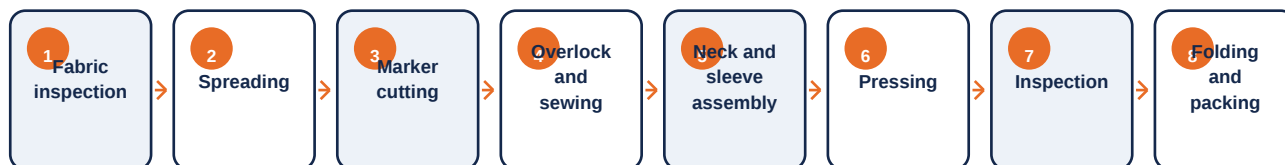
Sanaatchi delivery scope

- 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

Start with one semi-automatic shift and the minimum core equipment needed for t-shirt production line; add automatic handling and higher-speed packing after demand is proven.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Basic T-shirts	Confirm size, grade, formulation and pack specification for basic t-shirts	Afghanistan and nearby regional buyers
Polo shirts	Confirm size, grade, formulation and pack specification for polo shirts	Afghanistan and nearby regional buyers
Printed shirts	Confirm size, grade, formulation and pack specification for printed shirts	Afghanistan and nearby regional buyers
Private-label knitwear	Confirm size, grade, formulation and pack specification for private-label knitwear	Afghanistan and nearby regional buyers

The proposed flow is derived from the website product scope: Automated cutting, sewing, printing and QC for high-volume T-shirt manufacturing. Final machine models, recipes, output and quality standards must be confirmed against local raw materials and buyer requirements.

Core Equipment Schedule

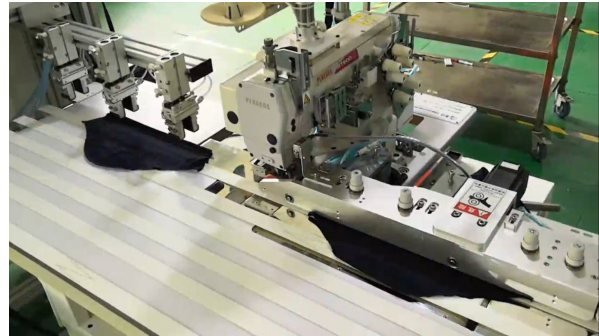
Step	Equipment	Function	Indicative parameter
1	Fabric inspection machine	Checks incoming material or finished t-shirt against the agreed acceptance criteria.	Define defect limits, test method, sampling rate and reject arrangement.
2	Fabric spreading table	Performs the defined fabric spreading table operation within the t-shirt process.	Confirm capacity, working range, utilities, construction material, controls and acceptance test.
3	Straight-knife or automatic cutter	Reduces or prepares material to the size required by the next t-shirt stage.	State feed size, finished size, throughput, blade or wear-part material.
4	Overlock machine set	Performs the defined overlock machine set operation within the t-shirt process.	Confirm capacity, working range, utilities, construction material, controls and acceptance test.
5	Lockstitch and flatlock machines	Performs the defined lockstitch and flatlock machines operation within the t-shirt process.	Confirm capacity, working range, utilities, construction material, controls and acceptance test.
6	Collar and rib attaching machines	Performs the defined collar and rib attaching machines operation within the t-shirt process.	Confirm capacity, working range, utilities, construction material, controls and acceptance test.
7	Steam pressing station	Finishes, assembles or collects the t-shirt product to its specified final form.	State finished dimensions, speed, tooling, tension or pressure and changeover needs.
8	Needle detector	Performs the principal forming operation that creates the t-shirt product or web.	Confirm working width or mould, output, speed, tooling and quality tolerance.
9	Inspection and measurement table	Checks incoming material or finished t-shirt against the agreed acceptance criteria.	Define defect limits, test method, sampling rate and reject arrangement.
10	Folding and packing station	Measures, closes, identifies or groups finished t-shirt for sale and transport.	State pack sizes, packaging material, speed, coding and change-parts 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



Complete production-line reference for T-Shirt Production Line



Real supplier equipment reference for T-Shirt Production Line



Real supplier equipment reference for T-Shirt Production Line

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Main textile or yarn input
- Thread, backing and accessories
- Labels and trims
- Packaging bags and cartons
- Machine needles, blades and consumables

Utilities & infrastructure

- Three-phase and single-phase power
- Bright production lighting
- Ventilation and dust control
- Compressed air where required
- Material racks and finished-goods storage
- Fire protection and clear evacuation routes

Quality, safety and environmental controls

- Incoming-material inspection and supplier records
- Documented machine settings and production batches
- Routine dimensional, visual and functional checks
- Safe guarding, emergency stops and operator training
- Final product sampling before release and 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

Afghanistan entry case: economical Chinese equipment, locally fabricated noncritical items, local civil works and labor, phased automation, and land excluded. Optional automation can be added after sales are established.

Component	Indicative range	Notes
Entry machinery	US\$25k-120k	Economy configuration using local labor where practical
Local workshop and utilities	US\$10k-40k	Economy configuration using local labor where practical
Tools and quality equipment	US\$5k-20k	Economy configuration using local labor where practical
Freight and training	US\$8k-30k	Economy configuration using local labor where practical
Working capital	US\$10k-40k	Economy configuration using local labor where practical
Low-entry project total	US\$58k-250k	Economy configuration using local labor where practical

Implementation sequence

Phase 1	2-3 weeks	Confirm products, entry capacity and buyer requirements
Phase 2	3-5 weeks	Compare suppliers and finalize the economy configuration
Phase 3	6-12 weeks	Manufacture equipment and prepare the local workshop
Phase 4	3-6 weeks	Shipping and customs clearance
Phase 5	2-4 weeks	Installation, training, trials and market launch

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

- Real production-line image reference: <https://www.bespoketshirt.com/UploadFile/2024/0725/66a1a2522635a.jpg>
- Real production-line image reference:
<https://image.made-in-china.com/2f0j00fITCcRUgTboG/Efficient-Bottom-Hemmer-Sewing-Machine-for-T-Shirt-Production.jpg>
- Real production-line image reference:
<https://image.made-in-china.com/2f0j00nDFvJESgGVbm/Single-Piece-Bottom-Hemming-Sewing-Machine-for-Efficient-Production.jpg>