SANAATCHI
INDUSTRIAL VISION GROUP

Paper Tubes & Textile Cores Production Line

Complete Turnkey Business Proposal

Made-in-China supplier reference: real paper tubes & textile cores production line equipment.

20-200 mm	1-10 mm	1 core	5-8
supplier diameter range	**wall thickness range**	**launch specification**	**entry workforce**

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 small spiral-winding line converting slit kraft or recycled paper reels into industrial paper tubes and textile cores through paper conditioning, multi-reel pay-off, controlled ply gluing, spiral winding around a fixed mandrel, online length cutting, curing, optional recutting, edge finishing, dimensional and crush testing, bundling and dry storage. Product diameter, wall thickness and end use determine the mandrel, ply build and adhesive.

Why this project fits Afghanistan

- Textile, tissue, film, tape and paper converters need dimensionally consistent winding cores.
- One buyer-approved diameter and crush strength keep mandrel and paper inventory low.
- Pre-slit paper permits a smaller entry before an industrial slitter is justified.
- Moisture, ply bond and straightness determine whether the core runs safely at speed.

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 confirmed textile-yarn or film core, not a broad tube catalogue. Screen a two-head spiral winder covering roughly 20-200 mm internal diameter and 1-10 mm wall thickness, with 8-16 reel stands, stainless glue system, one contracted mandrel and belt, synchronized flying cutter, curing racks, precision recutter and crush/dimensional test tools. Buy pre-slit paper initially unless a slitter is justified by volume.

Manufacturing Process & Product Portfolio

Integrated process flow

Target products

Product	Typical specification	Primary market
Textile-yarn winding core	Buyer spindle/chuck fit, internal diameter, wall, length, moisture, straightness and radial crush	Yarn, carpet and textile processors
Film or paper converting core	Separate diameter, surface, crush and dynamic winding approval	Flexible packaging, tissue and adhesive-tape converters

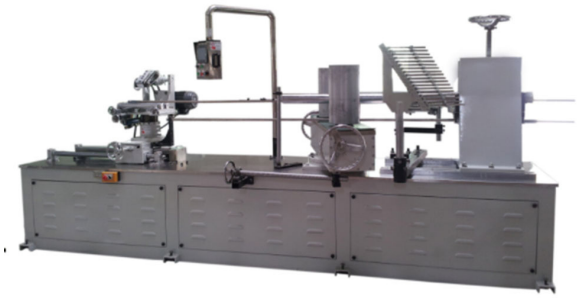
A toilet-roll core, textile core and high-speed film core are not interchangeable. Supplier trials must use the contracted paper strips and adhesive and measure internal diameter, wall, length, ovality, straightness, moisture, bond, radial crush, end squareness, surface condition and winding/chuck fit. Cores require protected curing before final testing.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Paper-strip reel stands	Feeds multiple plies in controlled order	8-16 plies entry
2	Glue preparation and coating frame	Applies consistent adhesive to each ply	Viscosity/temperature controlled
3	Two-head spiral tube winder	Builds tube around fixed mandrel	20-200 mm supplier range
4	Mandrel, winding belts and guides	Defines diameter and winding geometry	One launch core
5	Synchronized flying cutter	Cuts continuous tube without stopping	Length tolerance contracted
6	Curing racks and precision recutter	Stabilizes and finishes core length	Moisture-equilibrated cutting
7	Core laboratory	Measures geometry, bond and crush	Buyer-approved 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 paper tubes & textile cores production line equipment.

Made-in-China supplier reference: second real machine configuration for paper tubes & textile cores production line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Pre-slit kraft/recycled core paper by ply, gsm, moisture and strength
- Buyer-approved water-based dextrin/PVA adhesive
- Optional surface paper, release coating or printed identification
- Straps, pallets, labels, blades, belts and critical spares

Utilities & infrastructure

- Stable three-phase power and clean compressed air
- Dry humidity-controlled paper and curing areas
- Glue kitchen with washable floor and drainage control
- Guarded winding/cutting and safe reel handling
- Trim collection, fire protection and dry finished store

Quality, safety and environmental controls

- Release paper gsm, moisture and ply strength
- Control glue solids, viscosity and coating mass
- Verify winding angle, tension and ply alignment
- Condition before dimensional/crush tests
- Measure diameter, wall, ovality, straightness and length
- Test radial crush, bond and customer chuck fit

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 unit buys pre-slit paper and produces one buyer-confirmed core with one mandrel. Paper slitting, many diameters, automatic bundling, building and working stock are excluded.

Component	Indicative range	Notes
Reel stands, glue and spiral winder	US$14k-34k	One core family
Mandrel, cutter, racks and recutter	US$6k-17k	One launch diameter
Laboratory, handling and packing	US$3k-9k	Crush and dimensional control
Freight, installation and spares	US$5k-14k	Compact workshop
Indicative installed low-entry total	US$28k-74k	Paper slitter, building and 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

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