

Leather Finishing & Coating Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real multi-function leather coating line.

300-600 m2/day starter leather area	1 launch finish system	2 colours maximum launch palette	10-16 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 small/medium dry-finishing line upgrading released crust or semi-finished leather through sorting, conditioning, staking, optional buffing and dedusting, base-coat preparation, controlled roller or spray application, intermediate drying, optional embossing or ironing, top-coat application, curing, conditioning, area measurement and final grading. It processes approved leather; it does not tan raw hides.

Why this project fits Afghanistan

- Finishing can convert imported or locally tanned crust into specified market leather.
- One repeatable neutral or black finish lowers launch complexity.
- Water-based systems can reduce solvent burden but still require ventilation.
- Area measurement and grading create transparent buyer quotations.

Sanaatchi delivery scope

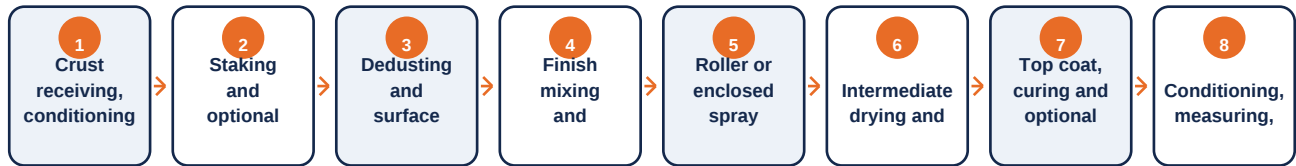
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

For the lowest credible entry, buy consistent crust leather and launch one water-based pigment finish using one staking machine, dust-controlled buffing station only if required, small roller coater or enclosed reciprocating spray booth, drying tunnel or racks, hydraulic ironing/embossing press, measuring machine and colour/adhesion test tools.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Pigment-finished shoe or bag leather	Buyer-approved colour, gloss, feel, adhesion, flex and rub fastness	Footwear, belt and bag workshops
Embossed finished leather	Approved grain plate, thickness and finish durability	Furniture or accessories after validation

The finish recipe must match the leather substrate and buyer tests. Spraying without enclosure and exhaust is unacceptable. Buffing dust is combustible and harmful. Water-based coatings still need chemical storage, ventilation, wastewater control and curing validation.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Conditioning and staking machine	Restores moisture and softness before finishing	300-600 m2/day
2	Optional buffing and dedusting unit	Corrects surface only where the product requires it	Enclosed dust extraction
3	Finish kitchen and mixer	Measures, filters and controls coating viscosity	One water-based system
4	Roller coater or enclosed spray machine	Applies uniform base and top coats	Supplier trial on selected crust
5	Drying tunnel or controlled racks	Dries layers without blocking or cracking	Matched to coating throughput
6	Hydraulic ironing/embossing press	Sets surface and optional grain	One launch plate
7	Leather measuring machine	Records saleable area by hide and lot	Calibrated area output
8	Colour and physical test bench	Releases colour, adhesion, flex and rub performance	Buyer 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 multi-function leather coating line.



Made-in-China supplier reference: real enclosed conveyor spray and drying equipment.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Consistent released crust leather by species, thickness and tannage
- Buyer-approved water-based binders, pigments, top coats and auxiliaries
- Release paper or embossing plates only for selected product
- Wrapping, labels, cleaning materials and laboratory consumables

Utilities & infrastructure

- Stable electricity matched to motors, controls, lighting and ventilation
- Process and sanitation water of the required quality and pressure
- Safe material storage, fire protection and worker hygiene facilities
- Dust, vapour or wastewater collection sized to the selected process
- Covered raw-material and finished-product storage with traceability

Quality, safety and environmental controls

- Approve crust shade, thickness, area, moisture and surface condition
- Record finish formula, viscosity, coat weight, line speed and drying
- Control colour difference, gloss, feel and emboss pattern
- Test dry/wet rub, flex, adhesion and finish cracking
- Monitor spray exhaust, buffing dust and chemical exposure
- Grade finished area and maintain lot-to-buyer traceability

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 buys released crust, uses one water-based pigment recipe and limits colours and embossing. Raw-hide tanning, solvent-heavy finishing, automatic sorting, building and leather working stock are excluded.

Component	Indicative range	Notes
Staking and conditioning equipment	US\$12k-32k	300-600 m2/day
Coating/spray and drying system	US\$22k-65k	One water-based finish
Ironing, embossing and measurement	US\$15k-42k	One grain plate
Ventilation, tests and safety	US\$8k-24k	Dust and spray controls
Freight, installation and spares	US\$12k-30k	Coating and heater parts
Indicative low-entry total	US\$69k-193k	Building, crust stock and chemicals excluded

Implementation sequence

Phase 1	3-5 weeks	Confirm raw material, product, capacity, site, permits and buyer specification
Phase 2	3-6 weeks	Complete representative material, process, yield and quality trials
Phase 3	6-12 weeks	Manufacture, inspect and ship the approved equipment scope
Phase 4	4-8 weeks	Install, train, validate controls and pass performance 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

Sanaatchi Industrial Vision Group

Afghanistan Office: +93 779 819 820 | info@sanaatchi.com

China Office: +86 159 5171 6867 | china@sanaatchi.com

Website: www.sanaatchi.com

Research and image references

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