

Wheelbarrow Production Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real wheelbarrow production line equipment.

80-100 L launch tray volume	200-315 t screened draw press	1 model starter tooling family	9-16 entry workforce
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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 metal-products line producing one construction wheelbarrow model through sheet blanking, deep drawing of the tray, trimming and edge curling, hole punching, tubular-frame cutting and bending, fixture welding, wheel/axle and handle preparation, surface finishing, component assembly, balance and load testing, knock-down packing and traceable dispatch.

Why this project fits Afghanistan

- Construction, agriculture and municipal work consume robust repairable wheelbarrows.
- Steel sheet and tube fabrication can use Afghan workshop labor and standard imported inputs.
- One tray/frame/wheel specification controls expensive dies and spare parts.
- Tray cracking, frame alignment, balance, wheel quality and proof load determine field life.

Sanaatchi delivery scope

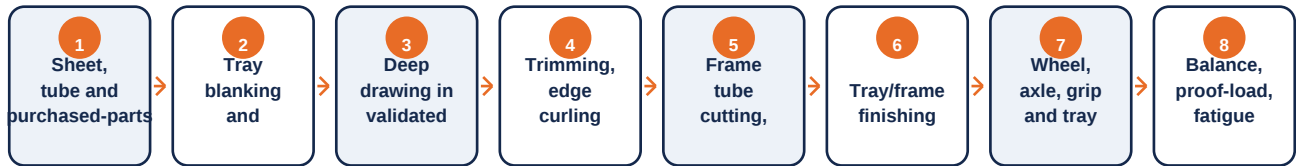
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Launch one 80-100 L contractor wheelbarrow. Use a guarded 200-315 t four-column deep-drawing press with a proven multi-stage die set, separate trimming/curling and punching tools, tube cutter/bender, frame welding jig, wet-paint or powder finishing and an assembly/load-test station. Buy wheels, bearings and grips initially; do not treat the tray press alone as a complete line.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Contractor wheelbarrow	Tray volume/BMT, frame tube, wheel type, axle/bearing, grip, finish, rated load and pack	Builders, farms and hardware merchants
Replacement tray and frame parts	Interchangeable holes, axle, wheel and finish matched to launch model	Repair and after-sales network

Wheelbarrow tray forming normally needs several dies for drawing, trimming, edge formation, embossing and holes. The supplier must form the contracted steel grade and thickness without cracks or unacceptable thinning. Acceptance assemblies complete units and checks geometry, wheel tracking, handle height, tipping balance, coating, static proof load and a documented fatigue sample.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Sheet shear or blanking press	Produces repeatable tray blanks	Nested blank size
2	200-315 t deep-drawing hydraulic press	Forms the tray safely	Die/cushion matched
3	Tray dies, trimming and curling tools	Completes edge, logo and holes	One model family
4	Tube cutter and bender	Forms the supporting frame	Contracted tube
5	Frame welding jig and MIG welder	Controls axle and handle geometry	Interchangeable frame
6	Paint/powder finishing system	Protects tray and frame	Recorded cure
7	Assembly and proof-load fixture	Builds and releases complete units	Rated-load method

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 wheelbarrow production line equipment.



Made-in-China supplier reference: second real machine configuration for wheelbarrow production line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Deep-drawing-quality steel sheet by grade and thickness
- Steel tube/section for frame and braces
- Purchased wheel, tyre, bearing/bush, axle, grips and fasteners
- Lubricant, welding consumables, coating and packing

Utilities & infrastructure

- Three-phase supply sized for hydraulic press and finishing
- Guarded press cell with die handling and lockout
- Welding-fume and coating extraction
- Safe sheet/tube storage and handling
- Assembly, load-test and knock-down packing area

Quality, safety and environmental controls

- Verify drawing-grade sheet, BMT and blank dimensions
- Inspect draw depth, thinning, cracks, wrinkles and edge curl
- Gauge hole pattern, frame jig and axle alignment
- Control welds and coating cure
- Check wheel runout, tracking, grips and fasteners
- Perform balance, proof-load and scheduled fatigue tests

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

Supplier listings around US\$23k-25k usually describe only the hydraulic tray press. The credible entry total includes dies, trimming, frame fabrication, finishing, assembly, guarding and testing; wheel manufacturing and working stock are excluded.

Component	Indicative range	Notes
Deep-drawing press and tray die family	US\$32k-78k	One 80-100 L model
Trimming, curling, punch and tube tools	US\$12k-35k	Complete forming route
Welding, finishing and assembly	US\$12k-38k	Purchased wheel entry
Freight, installation, guarding and spares	US\$10k-28k	Press commissioning
Indicative installed low-entry total	US\$66k-179k	Building, sheet stock and wheel making 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

- <https://china-hydraulicpress.en.made-in-china.com/product/gyTmSWoDChVH/China-Deep-Drawing-Hydraulic-Wheel-Barrow-Making-Tray-Forming-Press-Machine.html>

- <https://china-hydraulicpress.en.made-in-china.com/product/tNaEgxVAubcP/China-Deep-Drawing-Hydraulic-Press-Machine-for-Wheelbarrow-Wheel-Barrow-Production-Line.html>