



# Aluminium Cookware Production Line

Complete Turnkey Business Proposal



***Cookware You Can Make***

*YZ28G Series Hydraulic Press Machine*



*Made-in-China supplier reference: real aluminium cookware production line equipment.*

|                                      |                                           |                                             |                                 |
|--------------------------------------|-------------------------------------------|---------------------------------------------|---------------------------------|
| <b>20-28 cm</b><br>launch pot family | <b>200-315 t</b><br>press screening range | <b>1 alloy</b><br>controlled material basis | <b>10-18</b><br>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/medium food-contact metalware line converting certified aluminium circles into one deep-drawn pot or pan family through incoming alloy and surface inspection, circle lubrication, guarded hydraulic deep drawing, optional intermediate annealing for the approved alloy/draw ratio, trimming and beading, base finishing, controlled washing, internal and external polishing or approved coating, handle-hole punching, riveting, leak/rocking checks, food-contact verification and packing.

### Why this project fits Afghanistan

- Cooking pots are a repeat household and hospitality product.
- Purchased certified circles let a smaller factory avoid unsafe uncontrolled remelting.
- One body family shares forming, trimming, polishing and handle fixtures.
- Alloy chemistry, surface finish, handle retention and food-contact tests protect users.

### 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 uncoated 20-28 cm aluminium cooking-pot family from purchased food-grade aluminium circles. Screen a 200-315 t four-column hydraulic press with matched draw dies, trim/bead machine, washer, inner/outer polishing stations, punching/riveting jigs and leak/flatness gauges. Add annealing only after draw trials. Do not feed unsorted scrap directly; remelting, alloy control and circle casting/rolling are a separate metallurgical plant.

## Manufacturing Process & Product Portfolio

### Integrated process flow



### Target products

| Product                           | Typical specification                                                                          | Primary market                                     |
|-----------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Uncoated aluminium cooking pot    | Diameter, volume, alloy, body/base thickness, rim, lid, handles, finish and food-contact limit | Households, restaurants and institutional kitchens |
| Aluminium saucepan or shallow pan | Separate dedicated draw die, rim, base flatness, handle system and approved surface finish     | Retail and hospitality after tooling validation    |

Each diameter and geometry needs contracted dies and draw trials. Supplier press tonnage alone does not prove a complete cookware line. Acceptance records circle alloy/temper, thickness distribution after drawing, cracks and wrinkles, rim/bead geometry, base rocking, surface roughness, handle torque/pull, leak performance and applicable metal-migration/food-contact tests. Non-stick coating requires a separate ventilated pretreatment, spray, cure and compliance route.

## Core Equipment Schedule

| Step | Equipment                                 | Function                                             | Indicative parameter |
|------|-------------------------------------------|------------------------------------------------------|----------------------|
| 1    | Circle inspection and lubrication station | Releases certified blanks and controls drawing       | One alloy/temper     |
| 2    | 200-315 t hydraulic press and draw dies   | Deep-draws one body family                           | Contracted diameters |
| 3    | Trim and bead machine                     | Finishes safe repeatable rim                         | Matched mandrels     |
| 4    | Wash and polishing stations               | Produces clean controlled finish                     | Dust extraction      |
| 5    | Punch and riveting fixtures               | Attaches handles and lid hardware                    | Dedicated jigs       |
| 6    | Cookware inspection laboratory            | Checks geometry, handle and food-contact performance | Buyer test plan      |

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 aluminium cookware production line equipment.



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

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

## Plant, Raw Materials & Utility Requirements

### Raw materials

- Certified food-contact aluminium circles by alloy, temper, diameter and thickness
- Approved handles, rivets, lids, knobs and packaging
- Food-safe lubricant and cleaning chemistry
- Polishing compounds and consumables with controlled residue

### Utilities & infrastructure

- Stable three-phase electricity with protected distribution
- Covered sheet store and safe lifting/handling routes
- Guarded presses, interlocked tooling and emergency stops
- Welding/fume extraction, fire protection and disciplined housekeeping
- Polishing dust collection, controlled wash-water route and optional annealing ventilation

### Quality, safety and environmental controls

- Verify alloy/temper certificate and blank thickness
- Inspect draw cracks, wrinkles and wall-thickness distribution
- Gauge rim, bead, diameter and base flatness
- Check finish cleanliness and polishing residue
- Proof-test handle/rivet retention and check leaks
- Complete applicable food-contact and migration verification

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

A single forming press can cost below US\$30k, but it is not a complete cookware factory. The lowest credible line buys certified circles and includes trimming, cleaning, polishing, handle assembly and food-contact verification.

| Component                              | Indicative range | Notes                                             |
|----------------------------------------|------------------|---------------------------------------------------|
| Hydraulic press and one die family     | US\$28k-58k      | One pot family                                    |
| Trim, bead, wash and polishing         | US\$22k-62k      | Manual/semi-automatic entry                       |
| Handle assembly, laboratory and safety | US\$8k-24k       | Food-contact release                              |
| Freight, commissioning and spares      | US\$12k-30k      | Circle trials included                            |
| Indicative installed low-entry total   | US\$70k-174k     | Building, circles, coating and remelting 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

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### 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://sunglorycompany.en.made-in-china.com/product/VZrGBYSbffa0/China-a-Forming-Aluminum-Cooking-Pot-Making-Machine-Hydraulic-Press-Machine.html>

- <https://sunglorycompany.en.made-in-china.com/product/qFCtDVfvLMcg/China-SUS-Auto-Hydraulic-Press-Machine-for-Stainless-Steel-Aluminum-Cookware-Production-Line.html>