

Plastic Flowerpots Production Line

Complete Turnkey Business Proposal



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

15-25 cm launch pot size	150-220 t screened press class	1 mould launch geometry	4-7 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 injection-moulding cell producing one durable nestable PP flowerpot family through resin release, controlled blending, servo injection into a vented pot mould, guarded or robotic removal, gate trimming, cooling, drainage finishing where required, decoration or marking, nesting, dimensional and load testing and packing.

Why this project fits Afghanistan

- Urban landscaping, nurseries and household gardening create repeat demand.
- One nesting geometry minimizes mould cost and transport volume.
- Controlled clean recycled PP can be evaluated for non-food outdoor pots.
- UV retention, rim strength, drainage and colour consistency determine useful life.

Sanaatchi delivery scope

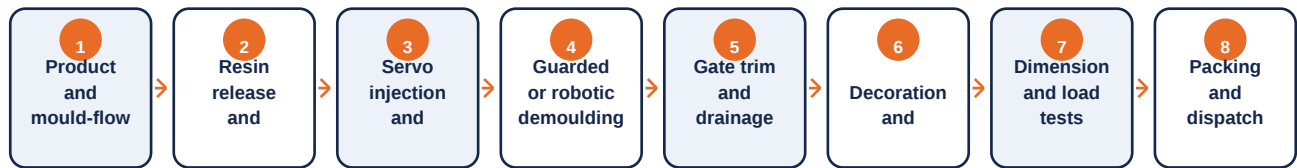
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Launch one 15-25 cm durable pot with integrated drainage on a roughly 150-220 t servo press selected from the final mould-flow analysis, shot weight, projected area and tie-bar spacing. Include one hardened mould, robot or guarded take-out, cooling, clean-runner granulator and load/UV tests. Thin thermoformed nursery pots are a separate process.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Durable nestable flowerpot	Top diameter, height, volume, wall, drainage, rim load, nesting pitch, colour and UV class	Nurseries, landscapers and households
Matching saucer expansion	Separate mould and watertightness/fit specification	Indoor and retail pot sets

Press tonnage is not selected by pot diameter alone. Acceptance uses the production mould and contracted resin for a sustained run, checking shot mass, cycle, sink/flash, weld lines, warpage, drainage, nesting release, rim and base load, drop, colour and accelerated UV retention. Recycled polymer claims require traceable feedstock, odour and mechanical validation.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	150-220 t servo injection machine	Moulds one pot family	Mould-flow selected
2	Hardened flowerpot mould	Defines wall, rim, drainage and texture	One cavity family
3	Robot or guarded take-out	Removes hot parts safely	Cycle matched
4	Chiller and mould-temperature control	Controls shrinkage and cycle	Balanced circuits
5	Clean-runner granulator and blender	Returns documented runners	Validated percentage
6	Pot test fixtures	Checks nesting, load, drop and UV basis	Buyer protocol

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 plastic flowerpots production line equipment.



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

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Virgin PP impact grade or qualified controlled recycled PP compound
- UV stabilizer and approved colour masterbatch
- Only clean documented internal runner regrind to validated limit
- Bags, cartons, labels and pallets

Utilities & infrastructure

- Stable three-phase electricity with verified connected load
- Closed-loop cooling water sized for the contracted process
- Dry covered material and finished-goods storage
- Ventilation, fire protection, safe lifting and guarded machinery

Quality, safety and environmental controls

- Verify resin identity, MFR, contamination and odour
- Control cycle, shot mass and mould cooling
- Inspect flash, sink, weld lines and warpage
- Gauge volume, drainage and nesting fit
- Test rim/base load and drop resistance
- Validate colour and UV retention for outdoor claims

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 reliable mould and modest servo press provide the lowest credible launch. Saucer moulds, thin thermoforming, multiple sizes and full recycling wash/compounding are separate additions.

Component	Indicative range	Notes
Servo injection press	US\$28k-62k	150-220 t mould-selected basis
One hardened pot mould and take-out	US\$14k-38k	One durable geometry
Cooling, granulator and test fixtures	US\$9k-24k	Complete cell auxiliaries
Freight, installation and spares	US\$11k-28k	Sustained mould trial
Indicative installed low-entry total	US\$62k-152k	Building, resin and second mould 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://haichenmachine.en.made-in-china.com/product/PfzYcaHFbyWV/China-High-Precision-Energy-Saving-Haichen-150t-Plastic-Flower-Pot-Injection-Molding-Machine.html>
- <https://polyprint.en.made-in-china.com/product/OFvGZJLwGHKS/China-Automatic-Plastic-Seedling-Tray-Flower-Pot-Forming-Machine.html>