AssembleOS · Product One-Pager

AssembleOS

The end-to-end operating system for modern manufacturers.

A configurable, multi-tenant platform that runs the whole make-and-sell chain for small and mid-sized manufacturers, from raw-material purchase to finished-goods dispatch, with costing, quality, and AI insight built in. Live at **assembleos.vercel.app**.

> **The one promise everything here serves:** know what you bought, where it is, what it became, who made it, what it cost, and who it was sold to.

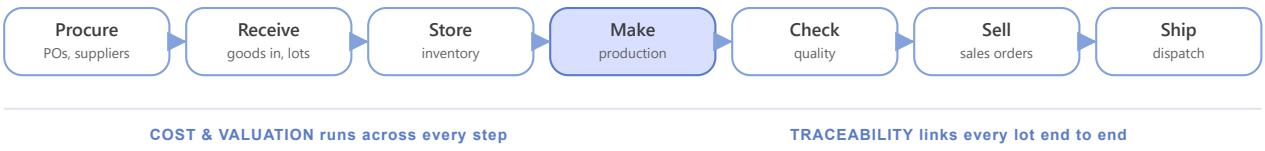
1 What it is

AssembleOS replaces the spreadsheets, WhatsApp messages, and disconnected tools a growing manufacturer juggles with a single, tenant-isolated workspace. Every action is captured once and flows automatically to the next step, so inventory, costs, and traceability stay correct without re-keying.

Who it's for	Owners, plant managers, and operations leads at SMB manufacturers in emerging markets — cosmetics, food & beverage, pharma, light assembly.
What problem it solves	Disconnected operations: stock that doesn't match reality, unknown true product cost, no batch traceability, and no single view of buy → make → sell.
How it's delivered	Cloud SaaS. Sign up, pick an industry template, and start in minutes — no installation. Each company is a fully isolated tenant.
Configurable	Industry onboarding templates (Cosmetics, F&B, Assembly, Pharma, General) preload categories, units, and workflows so the app fits your operation on day one.

2 How the pieces connect

Eight everyday activities become one chain. Each box is a part of the app; each arrow is data moving automatically to the next step.



Buy → receive → store → make → check → sell → ship — with costing and traceability spanning the whole chain.

3 What it does — every module

All capabilities, grouped by the part of the business they run.

SETUP & ONBOARDING

Get configured in minutes

Shape the workspace to your operation without a consultant.

- Guided onboarding wizard with 5 industry templates
- Company profile, base currency, costing & valuation methods
- Warehouses & bins, units of measure, item categories
- Document numbering sequences and workflows

PROCUREMENT

Buy with control

From supplier to approved purchase order to goods in.

- Supplier directory with ratings & on-time tracking
- Purchase orders with line items and approval step
- Goods-received notes that post stock atomically
- Auto-updated received quantities & PO status

INVENTORY

Stock that matches reality

Lot-tracked balances with full movement history.

- Items & materials with categories and reorder points
- Lot tracking with FIFO consumption and unit costs
- Balances, movements, adjustments, transfers
- Low-stock, out-of-stock, and expiry alerts

MANUFACTURING

Make and trace

Turn materials into finished goods, batch by batch.

- Products and Bills of Materials / recipes
- Production orders & work orders with operations
- Material issues (FIFO consume) & production output
- Batch genealogy linking inputs to every output lot

QUALITY

Release only what passes

Hold, inspect, and release with an audit trail.

- Quality check templates and checklists
- Quarantine on production; release moves stock to available
- Non-conformance tracking
- Quality-gated dispatch

SALES & DISTRIBUTION

Sell and ship

Orders to dispatch to delivery, stock-accurate.

- Customers with credit limits and types
- Sales orders with fulfilment status
- Dispatch with FIFO stock-out & delivery notes
- Finished-goods availability at a glance

FINANCE — COSTING & VALUATION

Know your true cost Growth+

Live valuation and margin from real lot costs.

- Weighted-average inventory valuation
- Product cost roll-up: material, labour, overhead
- Margin vs selling price; production cost variance
- Point-in-time valuation snapshots

INSIGHT & TRACEABILITY

See what needs attention AI = Scale

A rules engine plus optional AI narrative over live data.

- AI Insights: low stock, expiry, QC queue, variance, thin margin
- Trace any item or lot end to end
- Operational reports and a command dashboard
- Optional LLM-written summary of the day's signals

Platform & trust (across every module)

Multi-tenant	Each company is fully isolated; self-serve signup provisions roles, settings, and an admin in one step.
Security & access	Password auth (scrypt), role-based access control, per-action authorization, login rate limiting, and self-serve password reset.
Billing	Subscription tiers via Paystack with plan selection at signup, server-confirmed checkout, and feature gating by tier.
Money & audit	Displays every value in the company's base currency; every action writes an immutable audit-log entry.
Reliability	Unit + integration tests and continuous integration keep the core green on every change.

4 Plans

Start free on the full operations chain; upgrade for financial visibility and intelligence.

PLAN	PRICE	FOR	UNLOCKS
Free	₦0	Run the core chain	Procurement, inventory, production, quality, sales & dispatch, traceability & reports
Growth	₦45,000 / mo	Add financial visibility	Everything in Free + Costing & inventory valuation, margin & production variance
Scale	₦100,000 / mo	Intelligence on top of operations	Everything in Growth + AI Insights & recommendations, priority support

Try before you pay. Plans are selectable at signup and on the in-app billing page. Until live payment keys are configured, paid upgrades run through a safe demo checkout so the full flow can be evaluated without spending money.

5 How it's used

A first run, start to finish.

1. **Sign up & choose a plan.** Create your workspace, pick an industry template, and select Free, Growth, or Scale.
2. **Onboard.** The wizard preloads categories, units, and workflows; set your base currency and add warehouses.
3. **Buy.** Add suppliers, raise a purchase order, get it approved, and receive goods — stock and lots post automatically.
4. **Make.** Define products and BOMs, open a production order, issue materials (FIFO), and post finished output to a quarantined lot.
5. **Check.** Run quality checks and release the batch — released stock becomes available to sell.
6. **Sell & ship.** Create a sales order for a customer and dispatch it; a delivery note is generated and stock is drawn down.

7 **Know.** Watch the dashboard, read AI Insights, trace any lot end to end, and review live costing, margin, and variance.

Roles keep everyone in lane. Procurement, store, production, quality, sales, finance, and admin each see and do exactly what their role allows — enforced on every action, not just hidden in the menu.

6 Why it matters

Before AssembleOS

- Stock counts that never match the floor
- True product cost is a guess
- No way to trace a bad batch back to its inputs
- Buy, make, and sell live in separate tools

With AssembleOS

- One source of truth, updated as work happens
- Live, lot-accurate valuation and margin
- End-to-end traceability for recalls and audits
- The whole chain connected, with insight on top

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