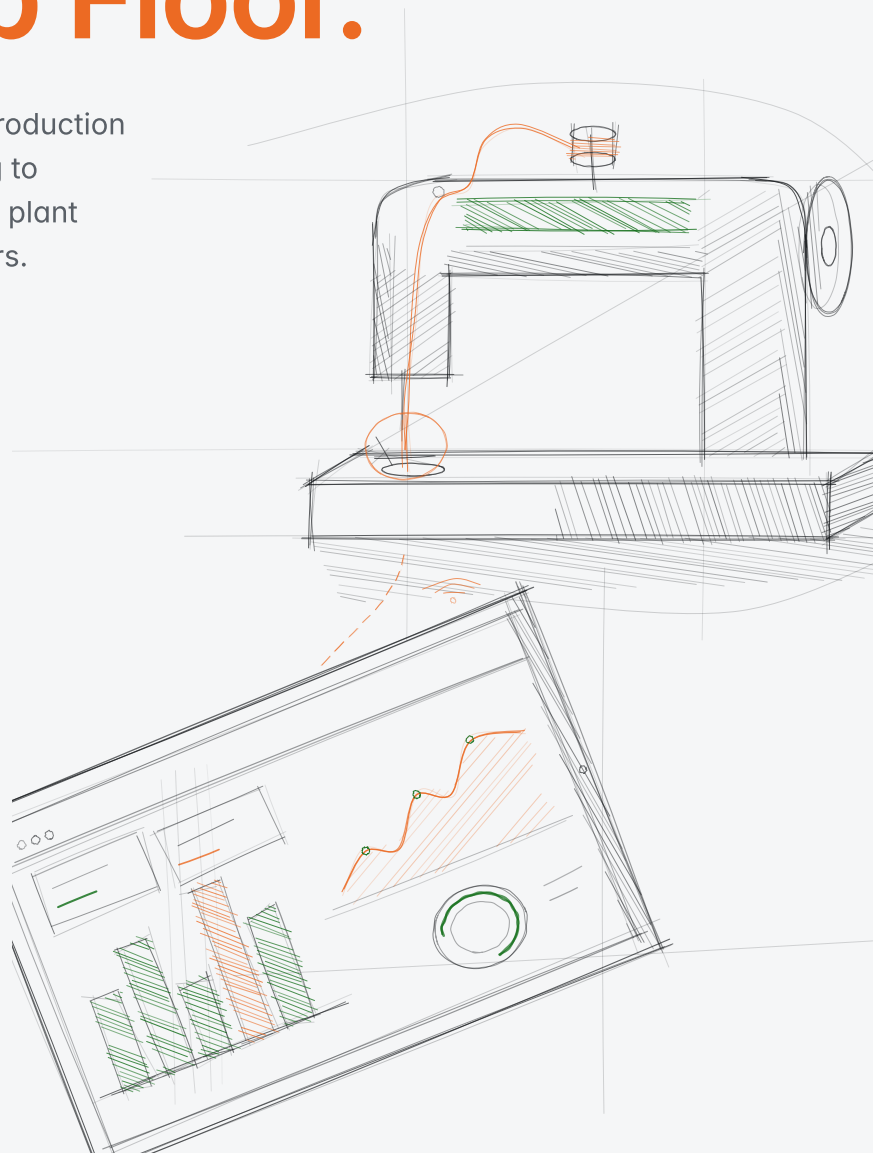


EmeraldOS

MANUFACTURING EXECUTION SYSTEM FOR APPAREL

The Integrated Digital Shop Floor.

Engineering operational excellence from production to logistics. Real-time visibility from cutting to dispatch, so every supervisor, planner and plant manager works from the same live numbers.



Live from cutting to dispatch

QR scanning on shop-floor tablets

Worker incentives calculated automatically

Connects to your ERP, planning tools and HRIS

THE CHALLENGE

Every line, every hour. One version of **the truth**.

Most apparel plants still learn what happened on the floor at the end of the shift: from paper tickets, spreadsheets and phone calls. By then the lost hour, the quality problem and the bottleneck have already cost money. EmeraldOS captures every movement as it happens and puts it in front of the people who can act.

Without a digital shop floor

- Output reported at the end of the shift, too late to recover the day
- Work-in-progress and stock values estimated, not counted
- Machine stops and quality issues found after the damage is done
- Incentive calculations disputed because workers cannot see how they work
- Line balancing decided on instinct instead of data
- Planning, ERP and HR systems that never see the floor

With EmeraldOS

- Real-time output by line, team, operation and hour
- Accurate work-in-progress and stock values for the balance sheet
- Downtime alerts to mechanics and quality captured at source
- Transparent, policy-based incentives calculated automatically
- Data for fast line balancing and employee movement
- Shop-floor data flowing to ERP, planning tools and HRIS

Built for the people who run the plant

ROLES



Plant & production managers

Live efficiency, output and losses across sections and plants.



Supervisors & industrial engineers

Hourly targets, team plans, line balancing and employee movement.



Quality & maintenance

In-line, end-line and AQL results, and downtime alerts for mechanics.



HR, finance & leadership

Incentive payouts, accurate stock values and one management view.

1 platform

From cutting supermarket to dispatch, replacing paper and disconnected tools.

Every **scan**

QR codes from your ERP, scanned on Android tablets at each station.

Proven **live**

Built and refined in daily, multi-plant apparel production.

FROM CUTTING TO DISPATCH

One live flow across the whole **factory floor**.

Each bundle, piece and carton carries a QR code generated in your ERP. Operators scan it on rugged Android tablets at every station, and EmeraldOS turns each scan into live production, quality and cost information.

The production flow

TRACKED STATIONS



Cutting supermarket

Cut panels and bundles received, stored and issued to lines with full traceability.



Embellishment

In-house embellishment tracked in and out, so no bundle goes missing between processes.



Sewing

Line-in and real-time sewing-out by team and hour, against the daily target.



Quality

In-line and end-line checks and AQL audits captured on the tablet at the point of work.



Central packing

Packing-in and packing-out by carton, with cartons ready flagged for pickup.



Dispatch

Traveller's app, digital gate passes, transport and fleet costing.

Running across every stage

LAYERS

Pulse dashboards

Real-time sewing module, section and plant dashboards, management view and shop-floor display boards.

Downtime & maintenance

Machine stops captured with reasons, mechanics alerted on a live board, machine lifecycle and maintenance history kept.

PICS incentives

Performance incentives calculated from output and quality under approved policies, with line transfers and attendance included.

Integration

Master data, orders and QR codes from your ERP; plans from your planning tool; employees and attendance from your HRIS.

How data is captured

THREE STEPS

STEP 1

Generate

QR codes are created in your ERP for bundles, pieces and cartons and passed to EmeraldOS.

STEP 2

Scan

Operators scan at each station on Android tablets. No typing, no paper tickets.

STEP 3

Act

Dashboards, alerts and incentives update instantly for every role.

WHAT EMERALDOS COVERS

Eight modules.

One **shop-floor** platform.

Start with the modules you need most and switch on the rest as plants are ready.
 Every module shares the same data, users and dashboards.



Production tracking

- Cutting supermarket and embellishment
- Sewing line-in and real-time sewing-out
- Central packing-in and packing-out
- Team pieces-out and scan operations



Planning & shift set-up

- Plan summary and daily plan from your planning tool
- Daily target allocation and team hourly plan
- Shift allocation, working hours and breaks
- Team creation and employee assignment



Quality

- In-line and end-line quality checks
- AQL audits with results by order and line
- Defects captured at the point of work
- Quality feeding incentives and dashboards



Downtime & maintenance

- Machine stops captured with reasons
- Live downtime alert board for mechanics
- Machine lifecycle and maintenance history
- Lost time visible by line and section



PICS incentives

- Incentive policies with approval flow
- Formula builder, ladders and thresholds
- SAH bonus, AQL and quality incentives
- Line transfers and attendance included



Logistics & subcontract

- Traveller's app for carton pickup
- Digital gate passes
- Transport and fleet costing
- Subcontract order status by day



Dashboards & display boards

- Real-time sewing module dashboard
- Section and plant production views
- Material security display board
- Line balancing and movement board



Administration & control

- Users, permission groups and approval flows
- Companies, locations, sections and work centres
- Holiday calendars and designations
- Excel and PDF exports with full audit

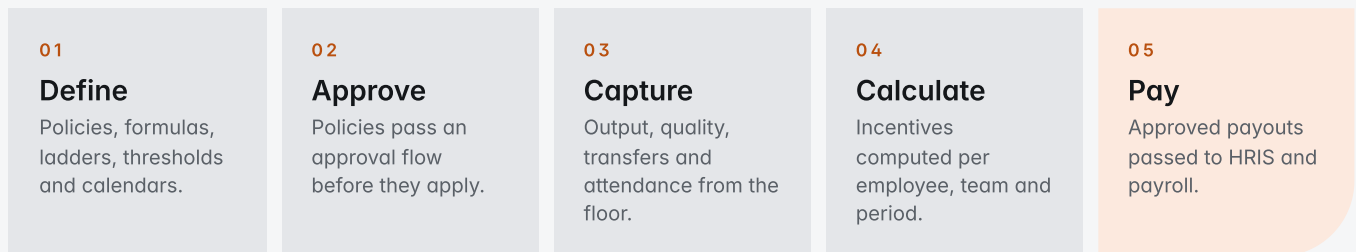
PICS: PERFORMANCE INCENTIVE CALCULATION SYSTEM

Incentives that people can see and **trust**.

Incentive disputes cost time and goodwill on every shop floor. PICS turns your incentive scheme into approved, versioned policies and calculates every payout from scanned output, quality and attendance.

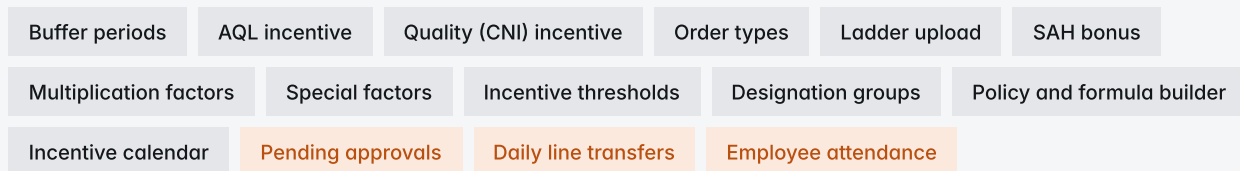
From policy to payroll

APPROVED FLOW



Incentive building blocks

CONFIGURABLE


PULSE DASHBOARDS

See the floor **as it happens**.

- **Real-time sewing module:** output against target by hour
- **Section and plant:** efficiency, losses and trends
- **Downtime alerts:** live board for mechanics
- **Management:** one view across plants
- **Material security board:** what is ready for each line
- **Line balancing board:** employee movement in real time

When workers can see how their incentive is calculated, disputes fall and attention moves back to output and quality.

WAKENSYS PRACTICE VIEW

INTEGRATION AND TECHNOLOGY

Fits the systems you already **run**.

CONNECTED SYSTEM	WHAT FLOWS TO EMERALDOS	WHAT FLOWS BACK
ERP	Master data, orders, styles and QR codes for bundles and cartons	Production confirmations, quantities and stock movements
Planning tool	Plan summary and daily plan by line	Actual output against plan
HRIS	Employees, designations, attendance and movements	Approved incentive payouts



Tablet-first

Android tablets with QR scanning on the floor; web for administration and dashboards.



Secure by design

Role-based permission groups, encryption in transit and at rest, full activity logs.



Multi-plant

Companies, locations, sections and work centres, with group-wide reporting.



Scales with you

Add lines, plants and modules without rebuilding the platform.

A proven roll-out path

PHASED

PHASE 1

Assess

Floor walk, data and integration review.

PHASE 2

Configure

Masters, scan points, policies and dashboards.

PHASE 3

Pilot

One line or section live, with training.

PHASE 4

Roll out

Plant by plant, module by module.

PHASE 5

Optimise

Support, analytics and new modules.

NEXT STEP

See EmeraldOS **on your floor**.

Book a demonstration with our team, or a short assessment of one of your lines. We will show you what live shop-floor data looks like with your own products and processes.

Talk to us

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