

# LOGIC LEAP

- Overview
- Production
- Downtime & Losses
- Quality
- Assembly Recon
- Inventory
- Logistics
- Scheduler
- AI Hub
- Alerts & Briefs
- Reports
- Admin & Setup

## Executive Overview

### OEE Snapshot

- KPI tiles (A, R, Q, OEE)
- 7-day trend
- Benchmarks
- Filters: Plant/Line/Machine
- Shift selector

### Plan vs Actual (Today)

- Target vs Output
- Adherence % and variance
- Date quick-pick
- Export CSV/PDF
- Auto-explain variance

### Top Losses (Pareto)

- Loss by reason
- Cumulative line
- Drill to root cause
- Assign owner
- Add A3 task

### Scrap by Machine

- Scrap % + cost impact
- FPY overlay
- Defect taxonomy toggle
- Trend bands
- Drill: machine -> lot -> image

### Notes

- One-glance health
- AI brief
- Links to details via cards
- Exports
- Comments
- Owners
- Confidence badges

## AI Insight Panel

- Dynamic KPI prioritization by business impact
- Context-aware variance explanations for KPI deltas
- Predictive KPI forecasting with confidence intervals
- Adaptive benchmark intelligence (mix/seasonality)
- Risk scoring + decision options with outcome modeling
- Customer impact predictor & cascade analysis
- Resource optimization suggestions (crew/machines)

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## Production

### Shift Output

- Plan vs Actual
- Good/Rework/Scrap breakdown
- OEE
- Filters: shift/crew, machine

### Downtime

- Duration by reason
- Incidents
- MTTR trend
- Quick-pick reasons
- Attach photo/voice

### Changeovers

- Planned vs actual
- Setup time and crew
- Overdue or clash warnings
- Re-setup risk
- What-if sequence

### First Pass Yield

- FPY by item/tool
- SPC-like bands
- Drill: lot -> inspection -> CAPA
- Supplier/material view

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## AI Insight Panel

- Dynamic target adjustment from real-time constraints
- Bottleneck predictor (2-4h ahead)
- Yield optimization engine (process window tuning)
- Energy optimization vs utility rates
- Operator Coach (photo/voice) + guidance
- Skill-based assignment & crew performance model
- Maintenance window optimizer

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## Downtime & Losses

### Pareto by Reason

- Top N reasons
- Cumulative % line
- Drilldowns
- Before/after actions
- Effect link

### MTTR / MTBF

- By machine
- 7/30/90-day windows
- Trend bands
- Targets
- Health score

### Loss Tree

- A->R->Q decomposition
- Bottleneck highlight
- Click to filter all charts
- Cross-correlation hints

### A3 Actions

- Owner
- Due date
- Status
- Attachments
- SLA timer

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## AI Insight Panel

- Multi-modal root cause engine (process/env/human)
- Temporal patterns (e.g., 72h periodicity)
- Cascade analysis from minor to major downtime
- Hidden correlation discovery
- Health scoring & failure mode prediction
- Optimal intervention timing + cost-benefit
- Action effectiveness prediction & tech assignment

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## Quality

### Defects by Tool/Mold

- Top defects
- Cavity heatmap
- Attach photos/notes
- Cluster similar defects

### Scrap Cost

- INR cost by machine/item
- Recovery trend
- Variance vs plan
- Alerts
- Root-cause link

### First Pass Yield

- FPY by family
- Sigma bands
- Compare shift vs shift
- Defect mix overlay

### CAPA

- Open vs closed
- Lead time
- Effectiveness
- Link to NCR
- Evidence

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## AI Insight Panel

- Real-time defect rate forecasting (2-6h)
- Process Window AI holds optimal parameters
- Visual defect classification + cause suggestions
- Cavity wear prediction
- Supplier/batch correlation for defects
- CAPA effectiveness prediction & sequencing
- Verification intelligence on outcomes

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## Assembly Reconciliation

### FG -> Assembly Mismatch

- Production vs receive
- Shortage with tolerance
- Risk score
- Alerts
- Click to reconcile

### Issue Drilldown

- Item/batch/machine
- Audit trail
- Assign to store/production
- Comment & attach

### Release Right Qty

- Recommended release
- Buffer logic
- Inputs: takt, WIP, min/max
- Approval workflow

### Traceability

- Lot
- Mold
- Operator
- Shift
- QC

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## AI Insight Panel

- Pattern-based mismatch detection (systematic vs random)
- Root-cause correlation to process/shift/operator
- Fraud detection signals (process bypass)
- Auto-reconcile clear cases; flag complex ones
- Demand-driven release & buffer optimization
- Risk scoring of release decisions (takt intelligence)
- Predictive genealogy & supply chain risk mapping

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## Inventory

### Min/Max Alerts

- Stock vs thresholds
- Coverage days
- Auto-reorder proposal
- Approval & send PO

### Material Availability

- Shortage risk vs plan
- Supplier ETA
- Link to Scheduler
- Alternate material hints

### WIP Ageing

- Dwell by stage
- Bottlenecks
- Heatmap view
- Drill to orders
- Aging alerts

### Cycle Count

- Variance
- Adjustments
- Audit
- Task queue for counters
- Scanner mode

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## AI Insight Panel

- Multi-echelon optimization across sites
- Dynamic thresholds by variability/lead-time/seasonality
- Service-level optimization trade-offs
- Supplier reliability in decisions
- Multi-horizon demand forecasting & exceptions
- WIP bottleneck prediction and queue management

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## Logistics

### Dispatch/Receipt

- Gate in/out
- LR/GRN capture
- Photos
- SLA warnings for dwell time
- Driver app hooks

### Late/Idle Loss

- Loss by lane
- Reason tags
- Trends
- Anomaly flag
- Link to carrier

### Transport Utilization

- FTL/LTL mix
- Cost per kg
- Consolidation
- What-if load plan
- Carrier compare

### Warehouse

- Bin occupancy
- Pick path
- Putaway exceptions
- ABC analysis
- Slotting aid

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## AI Insight Panel

- Transport optimization (FTL/LTL/courier)
- Dynamic routing by traffic/weather/driver hours
- Carrier performance scoring & selection
- 3D load planning optimization
- Delay prediction with confidence intervals
- Cost-speed optimization by priority
- Dynamic slotting, pick path & labor optimization

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## Scheduler

### Constraint-aware Plan

- Machines
- Molds
- Changeovers
- Crew
- Material & QC locks

### Scenario Planning

- Holiday surge
- Overtime
- Subcontract
- Compare A/B
- Save & share

### Utilization Heatmap

- Week view
- Idle gaps
- Zoom
- Filter by line/machine
- Color by status

### Setup Calendar

- Mold availability
- Maintenance windows
- Clash alerts
- Crew view

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## AI Insight Panel

- Multi-objective optimization (delivery/cost/quality/utilization)
- Finite capacity constraint satisfaction
- Demand-shaping recommendations
- Dynamic rescheduling; robust plans under uncertainty
- Learning scheduler from actual vs plan
- Scenario generation & risk scoring (what-if engine)

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## AI Hub

### 60-sec CEO Brief

- Daily summary
- Risks
- 3 actions
- Explainable bullets with links
- Send via Email/WhatsApp

### Operator Copilot

- Guided downtime capture
- Hints
- Photo/voice input
- Multilingual
- Prompt templates

### Predictive Signals

- OEE/downtime/quality anomalies
- Confidence
- Snooze
- Root-cause links

### What-if Simulator

- Changeover reduction
- Extra crew
- Machine fix
- Projected OEE/output delta
- Save/compare scenarios

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## AI Insight Panel

- Executive intelligence (decision trees, risk)
- Conversational AI across modules; natural search
- Pattern recognition & optimization recommendations
- Knowledge management that learns from outcomes

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## Alerts & Briefs

### Exceptions

- New since last login
- Severity
- Owner
- Acknowledge
- Reassign

### Daily Brief

- Role-based brief
- Highlights
- PDF export
- Recipients
- Trend context

### SLA Breaches

- Turnaround breaches
- Escalation path
- Aging queues
- Response time
- Auto-escalate

### Exports

- CSV/XLSX/PDF
- Saved views
- API keys
- Webhook Slack/Teams
- Schedule send

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## AI Insight Panel

- Priority scoring by impact & urgency
- Personalized alert delivery & fatigue prevention
- Contextual recommendations with each alert
- Impact quantification in briefs