

“we build brainpower
to choose quality product”



IoT & TRACEABILITY

FOR PLASTIC PROCESS INDUSTRY

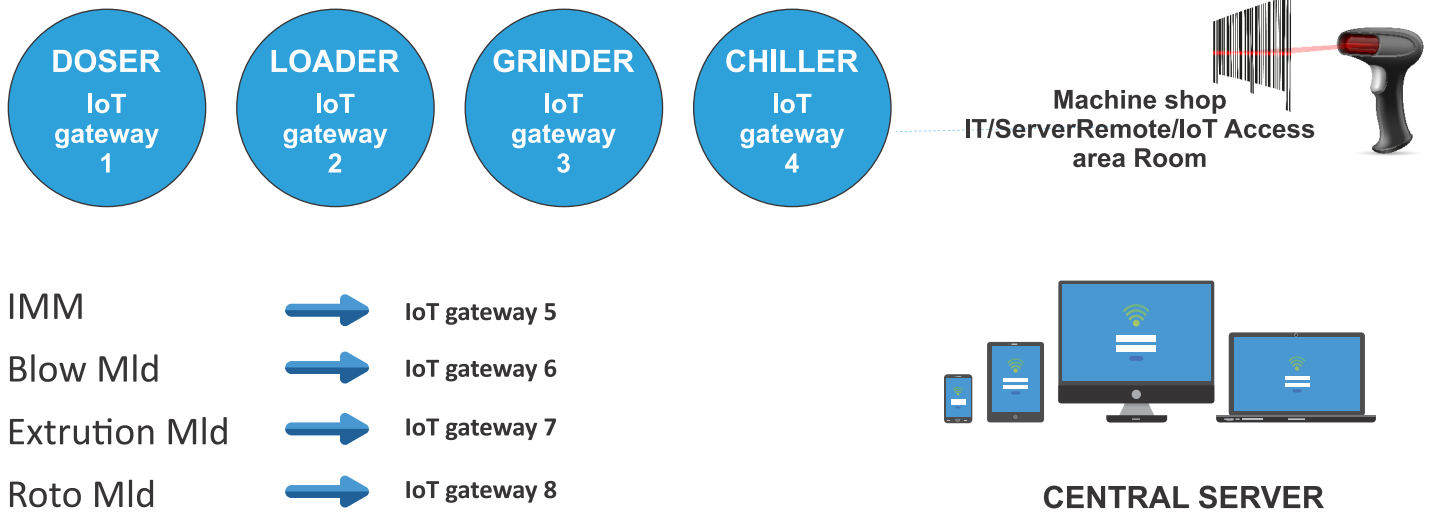
Suprak offers a comprehensive IoT (Industry 4.0) and traceability solution develop for plastic processing industry. This solution can be integrated with any ERP, SAP or MIS to monitor the health of the industry with aim of increasing operational efficiency by reducing losses through data analysis.

Suprak IoT Solution

SuprakIoT Solution for plastics process industries gives access to customers to utilize “Intelligence of Things” through data acquisition and advanced data analytics from simplest machine to complex production process. We provide turnkey, plug and play solution requiring zero IT investment.

Suprak' solution with online automated dashboards, reports and analytics are accessible using any device, anytime, anywhere.

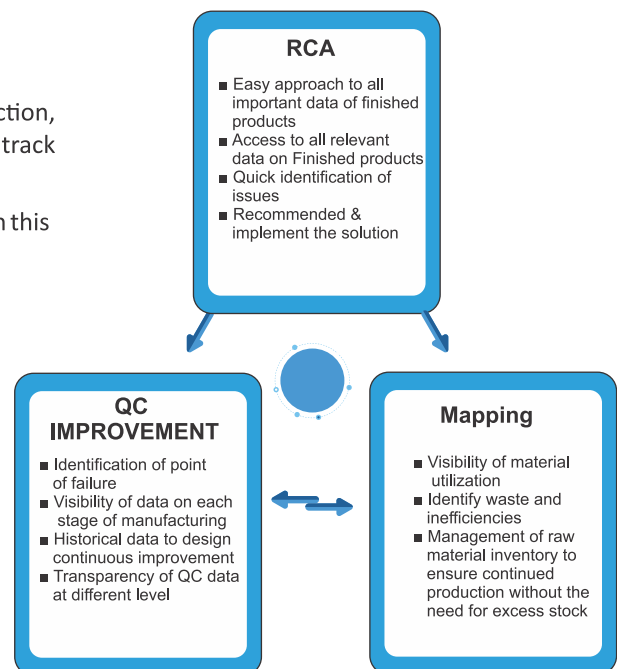
IoT Architecture



Suprak Traceability Solution

This module stores data about material, machine, mold used for production, date, time, and operators at different stages of production which helps in track and trace step wise process history of any finished product.

- ✔ Online data capture through scanning: a sustainable and effective solution this reduces the use of paper which eliminates manual entries.
- ✔ Effective callback history management.
- ✔ Inventory accounting and management





Machines covered

- ✓ Injection moulding machines
- ✓ Blow moulding machines
- ✓ Sheet extrusion machines
- ✓ Pipe extrusion machines



Integration available for standard auxiliary equipment

- ✓ Mixers, Doser
- ✓ Dryer, Loader
- ✓ Chillers, MTC
- ✓ Compressors



Business system integration available

- ✓ ERP
- ✓ Barcode systems
- ✓ Production planning systems



Console view

- ✓ Live status of all machines



Production analytics

- ✓ Production (length, pieces, shots)
- ✓ Production inkgs
- ✓ Ate of production



Quality analytics

- ✓ Number of good and bad shots
- ✓ Rejection analysis



Energy analytics

- ✓ Energy consumption analysis
- ✓ Specific energy consumption



Performance monitoring

- ✓ Process and mechanical parameters
- ✓ Temperature trends
- ✓ Average mould change overtime
- ✓ Total mould loading
- ✓ Running vs design



Mould analytics

- ✓ Actual cycle time
- ✓ Mould-machine performance



Application with custom dashboards and reports



End user operations analytics



OEM service analytics

OEM design validation analytics



Integration with service ticketing and online documentation



Online automated reports

- ✓ Monthly, daily and shift-wise reports
- ✓ Operational reports (shot-wise)
- ✓ Product summary



Logbook

- ✓ Digital logbook for operators and supervisors



Email and alerts

- ✓ Reports via email
- ✓ Machine alerts via email
- ✓ Condition based alerts



Consolidated dashboards

- ✓ Multi-plant/unit level
- ✓ Section level
- ✓ Machine level



Track KPIs

- ✓ Production
- ✓ OEE – Availability, performance, quality
- ✓ Downtime analysis
- ✓ Benchmarking



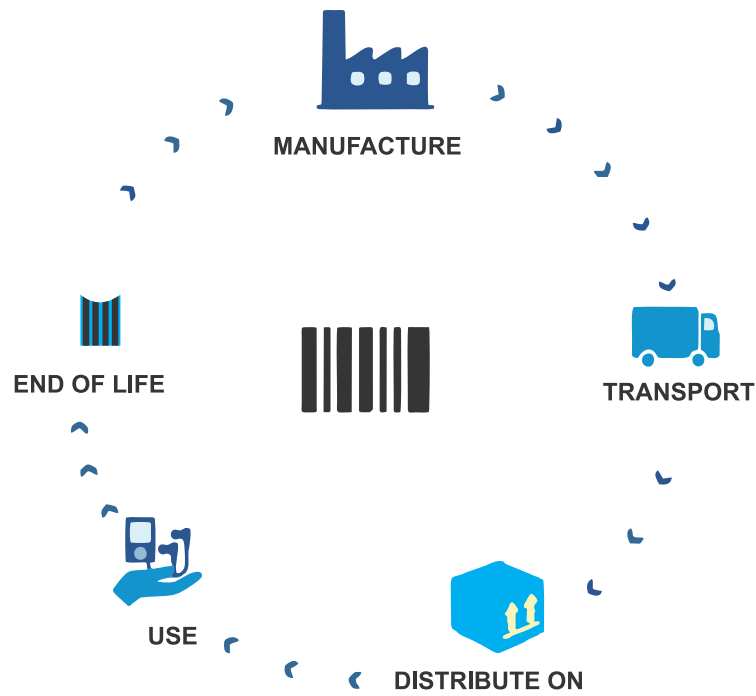
Data security

- ✓ Authentication
- ✓ Role based access



Add-on features

- ✓ End-to-end material traceability
- ✓ Maintenance module
- ✓ MTTR and MTBF
- ✓ Maintenance scheduling



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