

Unlocking Intelligence of Things



aXisPLAST4.0

SMART MANUFACTURING FOR PLASTICS



axisPLAST4.0

Comprehensive IoT solution for plastics

axisPLAST4.0 for plastics machines allows the customers to unlock “Intelligence of Things” through data acquisition and advanced data analytics from the shop floor to the top floor. We provide turn key, plug and play solution requiring zero IT investment.

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

Machines and business systems

- **Machines covered**
 - Injection moulding machines
 - Blow moulding machines
 - Sheet extrusion machines
 - Pipe extrusion machines
- **Integration available for standard auxiliary equipment**
 - Mixers
 - Chillers
 - Compressors
- **Business system integration available**
 - ERP
 - Barcode systems
 - Production planning systems

EcoAxis as a data partner to OEM



Application with custom dashboards and reports



End user operations analytics



OEM service analytics
OEM design validation analytics



Integration with service ticketing and online documentation

IoT gateways

- Industrial grade certified IoT gateways
- VPN support
- Wifi / LAN / WAN / GPRS / GPS featured router
- Direct over the air (DOTA) configuration
- **Protocol supported:**
 - Euromap 63, MODBUS RTU/TCP, DB connector, FTP connector, CAN-MF
 - Profibus, Profinet, OPC, DF1– supported using third party converters
- **Certified OEMs: Windsor, FANUC, Engel, Shibaura (Toshiba), JSW**



IoT Gateway

Empowers you with



▪ Console view

- Live status of all machines



▪ Production analytics

- Production (length, pieces, shots)
- Production in kgs
- Rate 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 over time
- Total mould loading
- Running vs design



▪ Mould analytics

- Actual cycle time
- Mould-machine performance
- Lifetime shots
- Mould life cycle performance



▪ Add-on features

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



▪ Online automated reports

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



▪ Elogbook

- 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

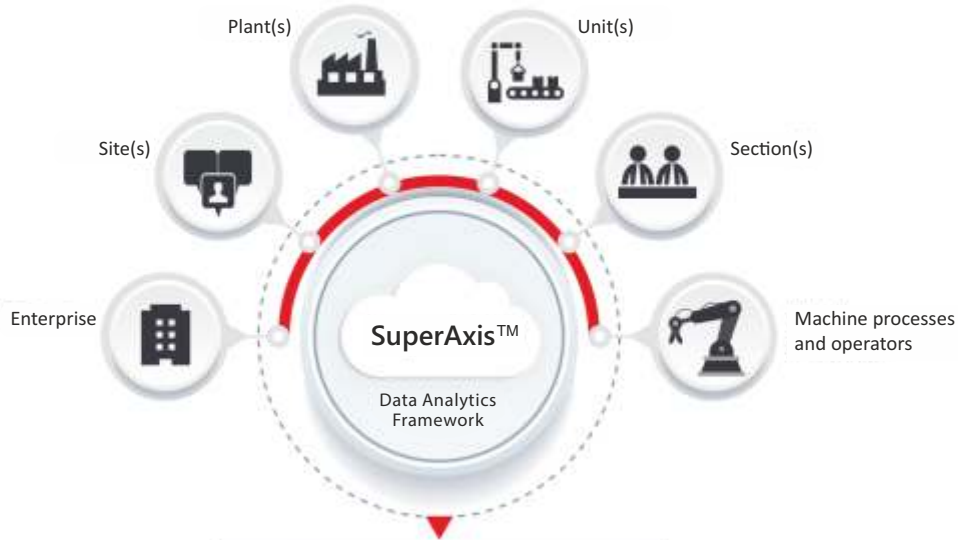


Blow moulding machines



Injection moulding machines

"in the world of big data, meaning is everything"



Drill Down Dashboards, Reports and Trends



Analytics



EcoAxis is a pioneer in the Industrial Internet of Things (IIoT). We have deep experience, expertise and commitment towards developing intelligent IoT technology solutions for plastics processors and OEMs. EcoAxis delivers end-to-end solutions all the way from consulting, data acquisition, edge computing, BigData processing, operational and business analytics to machine learning – delivered via our cloud based framework SuperAxis.™

EcoAxis has deployed its IoT solution in 15+ industrial domains and analysed over 15 trillion data points in the last 10 years. We are proud recipient of the 2017 Frost and Sullivan Growth Excellence Leadership Award for Industrial IoT – BigData Industry and have been consistently named in India's top Industrial IoT companies.

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