NEXTSENSE

Industrial IoT & AI Intelligence

PRODUCTION INTELLIGENCE

Transform Production Data Into Operational Intelligence



REALTIME MONITORING | SMART ANALYTICS | AI INSIGHTS | MAXIMIZE PERFORMANCE | DRIVE EFFICIENCY

INCREASE PRODUCTION VISIBILITY | **IMPROVE** OPERATIONAL EFFICIENCY | **OPTIMIZE** RESOURCE UTILIZATION | **REDUCE** DOWNTIME

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CHALLENGE

MANUFACTURING CHALLENGES

Manufacturers face increasing pressure to improve efficiency, reduce downtime, control cost, and gain **real-time visibility** across their operations.



COMMON CHALLENGES

MANUAL REPORTING
Reliance on manual data collection and spreadsheets.

LIMITED VISIBILITY
Lack of real-time visibility across production lines.

UNPLANNED DOWNTIME
Equipment issues detected too late causing downtime.

LOW EFFICIENCY
Inefficient processes and resource utilization.

HIGH ENERGY CONSUMPTION
No visibility on energy usage and cost drivers.

DELAYED DECISIONS
Data is not available in time for quick decision making.

NextSense helps manufacturers overcome these challenges with **real-time data, analytics,** and **AI-powered insights.**

TURN CHALLENGES INTO OPPORTUNITIES
With NextSense Manufacturing Intelligence

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OUR SOLUTION

NextSense Production Intelligence

NextSense Production Intelligence connects machines, production lines, and operational data into one integrated platform to deliver real-time visibility, deep analytics, and AI-powered insights.



OUR SOLUTION AREAS

PRODUCTION INTELLIGENCE
Real-time monitoring of production output, machine performance, and line efficiency.

ENERGY INTELLIGENCE
Monitor energy usage, optimize consumption, and reduce operational cost.

UTILITY INTELLIGENCE
Track critical utilities such as water, gas, air, and other resources.

ASSET INTELLIGENCE
Monitor assets and equipment condition for higher reliability and longer lifecycle.

ENVIRONMENTAL INTELLIGENCE
Monitor environmental parameters to support sustainability and regulatory compliance.

AI INTELLIGENCE CORE
AI-powered analytics for anomaly detection, prediction, and smart decision.

ONE INTEGRATED PLATFORM

SENSORS & MACHINE SIGNAL → GATEWAY (EDGE) → NEXTSENSE CLOUD → AI INTELLIGENCE ENGINE → DASHBOARD & MOBILE APP → ERP / MES / CMMS / BUSINESS SYSTEMS

KEY BENEFITS

REAL-TIME VISIBILITY
See what's happening right now.

IMPROVE EFFICIENCY
Optimize processes and resource usage.

REDUCE COST
Lower energy and operational cost.

REDUCE DOWNTIME
Detect issues early and prevent disruptions.

DATA-DRIVEN DECISIONS
Make faster and smarter operational decisions.

ACCELERATE DIGITAL TRANSFORMATION
Enable your factory to be smarter and future-ready.

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KEY CAPABILITIES

NextSense Production Intelligence delivers a comprehensive set of capabilities to monitor, analyze, and optimize your production operations in real time.



01 PRODUCTION COUNTING

Accurate production counting in real time from machines and production lines.

02 MACHINE MONITORING

Monitor machine status, run/stop, speed, and operational signals in real time.

03 PRODUCTION DASHBOARD

Real-time dashboard provides complete visibility of production performance and key metrics.

04 SHIFT PERFORMANCE

Track shift-wise production output, target achievement, and operator performance.

05 LINE PERFORMANCE

Analyze line efficiency, bottlenecks, and output comparison across production lines.

06 PRODUCTION ANALYTICS

Historical data analysis, trend reporting, and insights for continuous improvement.

07 ALERT & NOTIFICATION

Smart alerts for downtime, abnormal conditions, and target deviations via web, email, or mobile.

08 HISTORICAL TREND ANALYSIS

View historical trends and performance patterns to support data-driven decision making.

09 DATA INTEGRITY

Reliable and secure data collection with high accuracy and data validation.

10 CLOUD CONNECTIVITY

Secure cloud platform enables anytime, anywhere access to your production data.

11 ERP INTEGRATION

Seamless integration with ERP / MES / CMMS for automated data synchronization.

12 SCALABLE & FLEXIBLE

Scalable solution that grows with your business and adapts to various production environments.

IMPROVE VISIBILITY
Gain real-time visibility across machines, lines, and shifts.

INCREASE EFFICIENCY
Optimize operations and reduce waste, downtime, and losses.

REDUCE COST
Reduce manual reporting and operational costs.

DRIVE PERFORMANCE
Make data-driven decisions and achieve better results.

ENABLE DIGITAL TRANSFORMATION
Build a smarter factory with IoT and AI-powered intelligence.

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USE CASES

NextSense Production Intelligence is flexible and adaptable to various industries and production processes.



REAL-TIME VISIBILITY
Monitor production in real time

IMPROVE EFFICIENCY
Optimize processes and resources

REDUCE DOWNTIME
Detect issues early and prevent losses

REDUCE COST
Lower operational and maintenance cost

DATA-DRIVEN DECISION
Make smarter decisions with accurate data

01



LAMINATING COUNTING

Monitor laminating process and count output in real time.

- Realtime output counting
- Line speed monitoring
- Shift and daily production summary
- Dashboard and reporting

02



EDGING COUNTING

Track edging process and ensure accurate production output.

- Realtime output counting
- Glue usage estimation
- Reject and rework tracking
- Performance dashboard

03



BORING COUNTING

Monitor boring process and count holes/outputs automatically.

- Hole counting and validation
- Cycle time monitoring
- Machine utilization
- Production analytics

04



CUTTING COUNTING

Monitor cutting process and track production output in real time.

- Cut count monitoring
- Material and size tracking
- Waste and offcut monitoring
- Realtime dashboard

ERP INTEGRATION
Seamlessly integrate production data with your ERP system for accurate reporting and planning.

PRODUCTION DATA
Realtime data collection from machines

NEXSENSE PLATFORM
Data processing, validation, and analytics

ERP SYSTEM
Seamless data integration with your ERP

REPORTING & ANALYTICS
Accurate reporting for planning, analysis, and decision making

NextSense Production Intelligence supports various industries including **Furniture, Packaging, Food & Beverage, Plastic, Palm Oil, and more.**

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SYSTEM ARCHITECTURE

NextSense Production Intelligence architecture connects machines and devices, collects data in real time, processes it securely in the cloud, and delivers actionable insights to optimize your operations.

ARCHITECTURE LAYERS

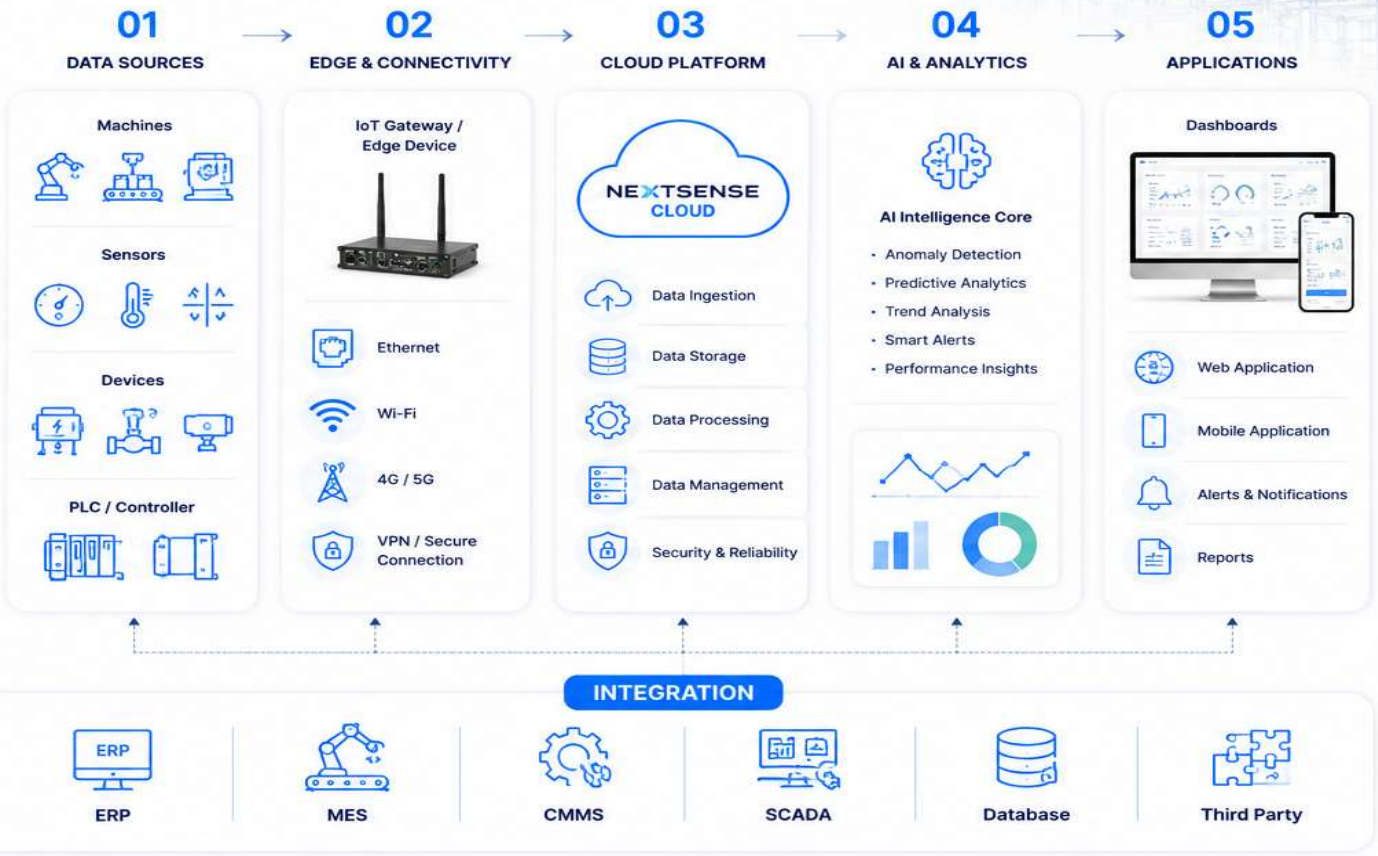
01 DATA SOURCES
Collect data from machines, sensors, and devices on the production floor.

02 EDGE & CONNECTIVITY
Secure data acquisition and transmission from edge to cloud.

03 CLOUD PLATFORM
Store, process, and manage data reliably and securely.

04 AI & ANALYTICS
Transform data into intelligence and actionable insights.

05 APPLICATIONS
Deliver insights to users and integrate with business systems.



ARCHITECTURE BENEFITS

REAL-TIME VISIBILITY
Monitor your operations in real time.

SECURE & RELIABLE
End-to-end security and high system reliability.

SCALABLE
Easily scale from small to enterprise level.

OPEN & INTEGRATED
Seamless integration with your existing systems.

DATA-DRIVEN DECISIONS
Turn data into actionable insights and better results.

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PRODUCTION DASHBOARD

Real-time visibility of production performance, machine status, and key metrics to help you monitor, analyze, and make data-driven decisions.

Real-time Monitoring | Performance Analysis | Alerts & Notifications | Reporting | Accessible Anywhere





KEY DASHBOARD FEATURES

Production Output
Realtime count of good, reject, and total output.

Machine Status
Monitor running, standby, stop, and maintenance.

Shift Performance
Track performance for each shift in real time.

Alerts
Instant notifications for abnormal conditions.

Reports
Daily, weekly, and monthly reports export.

Accessible Anytime, Anywhere



BENEFITS

- Real-time visibility
- Improve efficiency
- Reduce downtime
- Data-driven decisions
- Support digital transformation



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BUSINESS IMPACT

NextSense Production Intelligence empowers manufacturers to operate smarter, faster, and more efficiently—driving measurable impact across the organization.



DRIVING IMPACT ACROSS YOUR BUSINESS

MAXIMIZE PRODUCTION
Increase output and throughput with real-time monitoring and data-driven insights.

IMPROVE EFFICIENCY
Optimize line performance, reduce bottlenecks, and improve resource utilization.

ENHANCE QUALITY
Reduce defects and rework through early detection and process control.

REDUCE DOWNTIME
Detect issues early, enable faster response, and minimize unplanned downtime.

LOWER COSTS
Reduce waste, rework, and maintenance costs with smart automation and analytics.

ENABLE SMART DECISIONS
Empower teams with accurate, real-time data to make faster and better decisions.

QUANTIFIED BUSINESS RESULTS (INDUSTRY AVERAGE IMPACT)

- Increase in Production Output
- Improvement in Line Efficiency
- Reduction in Rejects & Rework
- Reduction in Unplanned Downtime
- Reduction in Operational Costs

TURNING INSIGHTS INTO ACTION. DELIVERING IMPACT THAT MATTERS.

THE NEXTSENSE ADVANTAGE

- Real-time visibility across machines, lines, and shifts
- AI-powered insights for proactive decision-making
- Scalable and secure architecture that grows with your business
- Seamless integration with your existing systems
- Proven results across industries and production environments

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READY TO TRANSFORM YOUR OPERATIONS?

NextSense Production Intelligence empowers manufacturers with real-time visibility, AI-powered insights, and actionable intelligence to drive better performance and measurable impact.



REAL-TIME VISIBILITY

See what's happening across your production, anytime, anywhere.

SMARTER DECISIONS

Leverage AI and analytics to make faster, data-driven decisions.

OPTIMIZED OPERATIONS

Improve efficiency, quality, and utilization across your factory.

SECURE & SCALABLE

Built with enterprise-grade security and designed to grow with you.

LET'S BUILD SMARTER TOGETHER

Take the next step toward a more intelligent, efficient, and connected factory.

SCHEDULE A DEMO

TALK TO OUR EXPERTS

ASSESS

Understand your goals and current challenges

DEMO & DISCOVER

See how NextSense solves your use cases

PLAN & DEPLOY

Build a roadmap and deploy with confidence

DRIVE IMPACT

Achieve measurable results and continuous improvement

We're here to help you unlock the full potential of your operations.

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