



E TECH GROUP

**Proven Expertise.
Trusted Execution.
Global Support.**

Optimized Production. Unified Data. Future-Ready Manufacturing.

MES/MOM: Smarter Manufacturing, Stronger Performance

E Tech Group's **Manufacturing Execution Systems (MES)** and **Manufacturing Operations Management (MOM)** solutions help manufacturers optimize production, ensure compliance, and unlock real-time visibility from the plant floor to the enterprise.

We deploy and integrate MES/MOM platforms that **standardize workflows**, manage recipes and batch records, and digitize data capture. Our solutions connect automation systems, quality systems, and enterprise platforms, delivering **traceability, audit readiness, and operational excellence** in regulated environments.

Whether streamlining batch release, improving OEE, or executing multi-site rollouts, MES/MOM enables consistent processes, data-driven decision making, and scalability across global operations—laying the foundation for **smart, connected, and future-ready facilities**.

With MES/MOM, every operation becomes more visible, compliant, and efficient.



Tangible Benefits

- **50% faster batch release**
- **60% reduction in review-by-exception**
- **100% data integrity compliance alignment**
- **Scalable from pilot to enterprise rollout**



Use Cases

- **Life Sciences & Pharmaceuticals**
- **Food & Beverage Manufacturing**
- **Chemicals & Specialty Materials**
- **Consumer Packaged Goods**



Proven Results, Measurable Impact

- **Reduce production downtime and improve OEE by up to 25%**
- **Achieve full traceability across multi-site operations**
- **Replace paper-based workflows with electronic records**
- **Streamline compliance with FDA 21 CFR Part 11 and GMP requirements**

Beyond Automation and Control



E TECH GROUP

Key Areas of Expertise:

Batch & Recipe Management

- Digitize and standardize recipe execution for consistency across shifts and sites
- Automate complex workflows to reduce operator error
- Support regulatory standards such as ISA-88 for structured recipe control

Production Scheduling & Dispatching

- Optimize schedules to maximize resource utilization and throughput
- Automate work order dispatch to operators and equipment
- Reduce downtime with dynamic, real-time scheduling adjustments

Track & Trace

- Maintain complete material genealogy from raw materials to finished product
- Ensure product quality, safety, and regulatory compliance
- Quickly isolate issues with lot-level traceability

OEE & Performance Monitoring

- Monitor equipment utilization, downtime, and production efficiency in real-time
- Identify bottlenecks with actionable KPIs
- Improve throughput and reduce costs with continuous optimization

Electronic Batch Records (EBR)

- Eliminate paper records with validated, digital documentation
- Enable faster reviews and real-time error detection
- Provide audit-ready, compliant workflows for FDA and global regulators

Real-Time Data Collection

- Capture process and quality data directly from the plant floor
- Enable data driven decisions with live production visibility
- Integrate sensors, PLCs, and SCADA systems for seamless data flow

Quality Management Integration

- Connect MES with QC and QA systems for streamlined workflows
- Automate testing, results capture, and release processes
- Reduce risk by embedding compliance checks into production execution

Multi-Site Deployment

- Standardize MES/MOM systems across global operations
- Scale solutions to fit regional and enterprise needs
- Ensure consistent data, compliance, and visibility across facilities

Beyond Automation and Control