



Manufacturing execution system



Dashboard interface showing process data and controls.

Process Overview:

Process	Status	Start	End	Temp
101	Running	10:00	10:05	100
102	Stopped	10:00	10:05	100
103	Running	10:00	10:05	100
104	Running	10:00	10:05	100
105	Running	10:00	10:05	100

Temperature Control:

Temperature: 1646

next-level production, driven by data and intelligence

A background image showing two industrial workers in a factory setting. A woman in the foreground is wearing a white hard hat, safety glasses, and an orange high-visibility safety vest over a grey jacket. She is holding a tablet computer. A man in the background is also wearing a white hard hat and a grey safety jacket. They appear to be collaborating and looking at the tablet.

Efficiency, quality, and precision drive steel manufacturing. **qontrol MES** serves as the plant's digital backbone, connecting production with business operations.

At the production management level, it optimizes workflows, reduces costs, and enhances quality. By managing materials, schedules, and equipment, **qontrol MES** streamlines production while leveraging Level 2 data from **qontrol L2** for continuous improvement.

Bridging real-time operations (Level 2) and strategic planning (ERP), it empowers smarter decisions. Over time, data-driven algorithms boost efficiency, keeping steel producers agile and in control.

Rooted in metallurgy and technology, **qoncept** delivers solutions that help steel plants optimize workflows and excel in an evolving industry.

” Achieve better quality and performance with **qontrol MES**, enabling smarter decisions in every aspect of your steel operations.

System Highlights

- **Product Definitions**
Record and track materials, format, and properties.
- **Production Know-How**
Define recipes and templates, streamline workflows, and ensure quality management.
- **Production Resources**
Manage materials, equipment, and stock efficiently.
- **Production Order Planning**
Plan orders with effective setup and scheduling options.
- **Production Preparation**
Prepare materials and equipment for production.
- **Performance Analysis**
Analyze orders, products, and plant-wide performance reports.



” Optimize manufacturing with **qontrol MES** for better control, productivity, and quality.

Core Capabilities

1 Master Data Management

- Centralize materials, steel grades, and treatment management.
- Define storage locations, material handling, and equipment.
- Streamline control of production.

2 Production Tracking & Optimization

- Track products and materials in real-time.
- Manage recipes for melting, refining and alloying.
- Make adaptive adjustments to process setpoints for optimization.

3 Production Resource Planning

- Manage orders and production line-ups received from the ERP system.
- Prepare, sequence, and organize production orders in detail.



COORDINATION

Connects business planning with process control for smooth scheduling, resource planning, and work order management.



EXECUTION

Translates plans into action by dispatching orders, ensuring workflow adherence, and capturing real-time production data.

Tailored to your Requirements

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Asset Management

- Track equipment and maintain detailed condition and history records.
- Oversee inventory and stockyard management.

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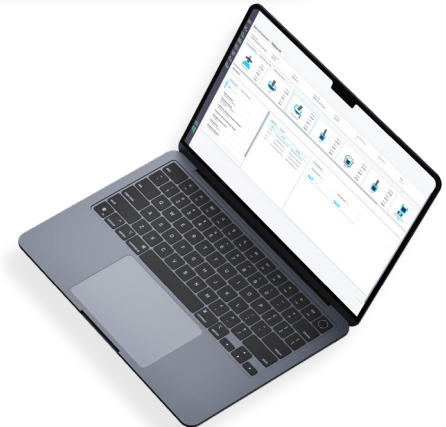
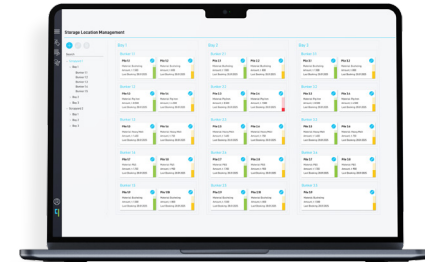
Process Coordination

- Integrate across all levels of automation (Level 1, Level 2 and Level 3).
- Synchronize process recipes, material flow and alloying across production units.

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Quality & Reporting

- Generate reports on material consumption, equipment usage and KPIs.
- Leverage advanced analytics for post-processing and process improvement.
- Exchange data smoothly with external systems, including ERP and laboratory systems.



MONITORING

Tracks production to ensure alignment with plans, monitoring equipment, materials, KPIs (OEE, downtime, cycle times, yield) and quality.



OPTIMIZATION

Drives continuous improvement with analytics (yield improvement, waste reduction), performance feedback to ERP and process control and adaptive scheduling.



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