

Digital Factory Platform for Autoclaved Aerated Concrete Production Line

As the integration of high-end equipment manufacturing with informatization and industrialization deepens, Teeyer Intelligence seizes the demand of customers for intelligent control of autoclaved aerated concrete production lines. Teeyer actively promotes the transformation and upgrade of the production line's digitalization and intelligence level, bringing customers a highly automated, intelligent, and digitized production mode.

The company has developed a digital factory platform for autoclaved aerated concrete production lines, including specific systems such as order and planning management system, lean production management system, equipment maintenance and remote monitoring system, and production line efficiency detection system. These systems assist customers in improving operational efficiency, reduc-

ing energy consumption, and completing the digital transformation and upgrade of production lines.

The order and planning management system manage, and track orders placed by customers, dynamically grasp the progress and completion of orders, improve operational efficiency during product delivery, save operation time and costs, achieve seamless integra-

Order and Planning Management

Action	Status	Contract Number	Contract Name	Customer	Contract Signing Date	Contract Amount (RMB)	Creation Time	Creator	Remarks
Action IV	Activated	10000	10000	Unit 001	2024/03/04	20000	2024/03/06	admin	
Action IV	Activated	HT2024010001	Aerated Blocks/Boards Supply	Unit 001	2024/02/01	100000	2024/02/24	ty	
Action IV	Activated	HT20230223002	HT20230223002	Unit 001	2024/02/23	100000	2024/02/23	admin	
Action IV	Activated	HT20230223001	HT20230223001	Unit 001	2024/02/23	10000	2024/02/23	admin	

Action	Delivery Date	Serial Number	Inventory Item	Quantity	Product	Inventory Stock	Quantity to Produce	Quantity to Complete	Product Category	Department	Compressive Strength	Load-bearing Capacity (N/m²)	Dry Density (kg/m³)
Action IV	2024/03/01	2	AAC-Q-A5.0-2500*600*200-GB/T15762-2020	100	100	0	100	120	AAC-Q	A5.0	2200		
Action IV	2024/03/20	1	AAC-Q-A5.0-2500*600*200-GB/T15762-2020	120	100	0	120	40	AAC-Q	A5.0	2200		

Order and Planning Management

Automatic Mold Scheduling System

Haomfg-MES System

Home Production Schedule

Plan Number: Production Line: Status: Close Reset

Production Plan Date:

Mold Status	Plan Number	Associated Production Line	Production Plan Date	Frequency	Mold	Start Creation Time
Pending Issue	PJ2024011301	Production Line 1	2024-01-13	Day Shift	5	2024-01-12
Issued	PJ2024011302	Production Line 1	2024-01-13	Night Shift	5	2024-01-10

Work Order	Plan Details	Work Order Number	Mold	Width mm	Horizontal Cutting Size	First Segment	Partition	Second Segment	Partition	Third Segment	Remaining Length
					mm	Type	Length mm	Type	Length mm	Type	Length mm
1	PJ2024011301-01	3	600	200	Board	2900	50	Board	2900	100	50
2	PJ2024011301-01	2	600	200	Block	1200	240	Block	3600	100	0

6000mm

Total Length 2900mm

2900mm

Total Length 2900mm

2900mm

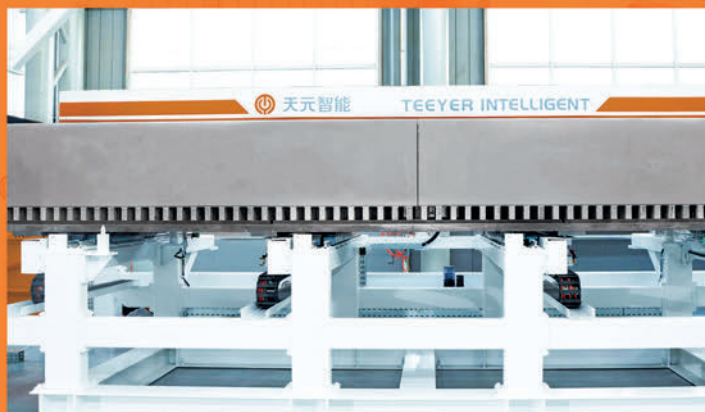
Placeholder text for Tag 1

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Teeyer Autoclave Grate Grouping Hoist ↙



Teeyer Green Cake Separator ↙



Teeyer Non-pallet Palletizing System ↖



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Stock Code for Teeyer Intelligent 603273





Lean Production Management

tion of order and planning management, production line production execution, and logistics warehousing, and reduce offline operations.

Combining the production requirements of autoclaved products with multiple specifications in the production enterprises, the order and planning management system is equipped with automatic mold scheduling function. It dynamically acquires the orders needed for production based on activated contracts and supports various scheduling modes, achieving priority in production line delivery or efficiency through intelligent scheduling.

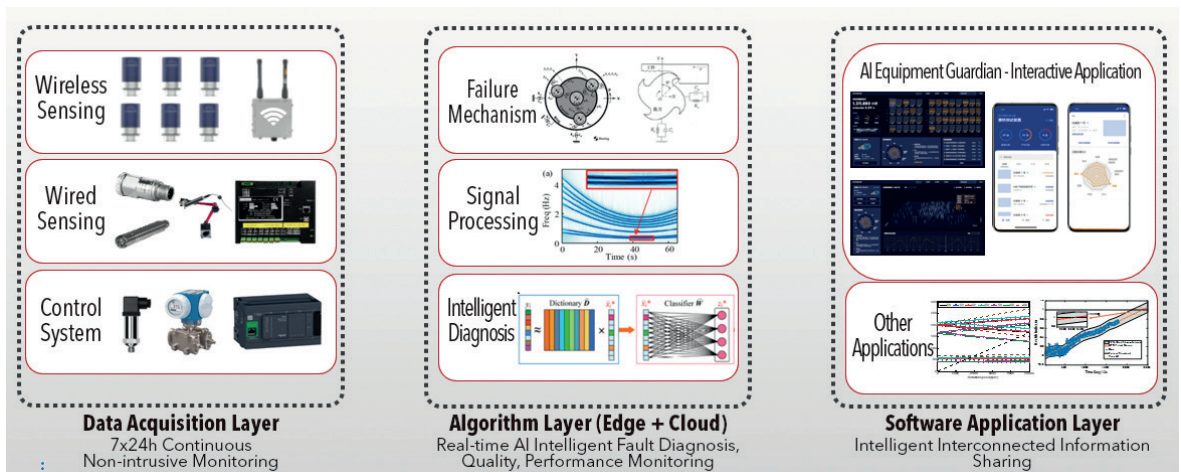
The lean production management system timely grasps the production progress of the production line through the information collection of equipment operation parameters, RFID chip data reading and writing, digital twinning, and other technologies. It automatically links with order completion status to achieve intelligent flow of production processes.

In the new production system launched by Teeyer, including batching pouring system, steel reinforcement mesh hanging system, cutting system, steaming curing system, separating system, packaging system, etc., all equipment operation parameters

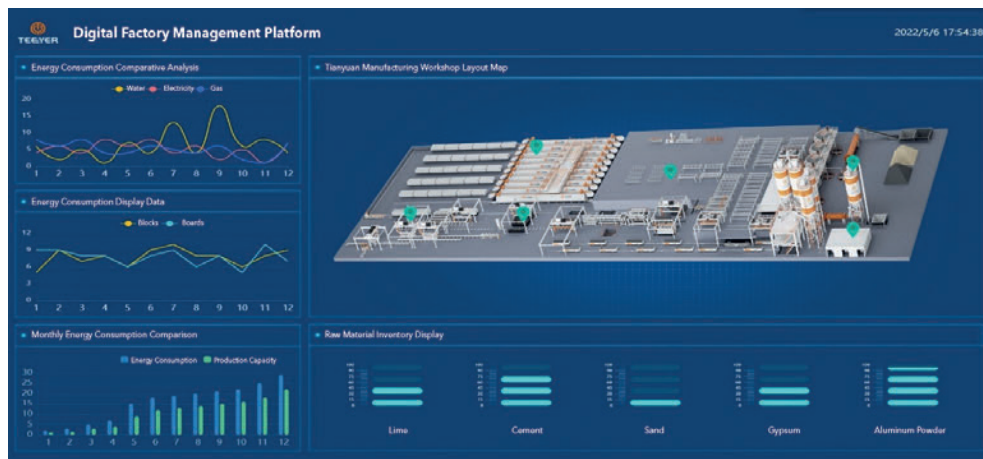
are collected and shared through RFID to achieve unmanned intervention and automatic operation. Ultimately, it realizes fully digitalized operation and management of the production process, facilitating lean production.

The equipment maintenance remote detection system addresses the issue of “timely awareness + rational analysis + management improvement.” It empowers equipment management in autoclaved aerated concrete product factories, realizes comprehensive operation management of production lines, conducts preventive maintenance of equipment, and achieves centralized and unified operation and maintenance of multiple devices through remote equipment maintenance. It helps companies reduce downtime and scrap losses due to equipment failures, explores potential rules from massive data, helps companies timely prevent risks, and improves operational efficiency.

The production line energy efficiency detection system organizes, statistics, and analyzes energy consumption data through management platform software, predicts and evaluates dynamic trends in production materials and energy consumption, and provides information support for energy efficiency



Maintenance and Operation System



Raw Material and
Energy Efficiency
Monitoring

evaluation and warning management. It conducts trend analysis of production material and energy consumption data according to shifts, weeks, months, quarters, and years; peak, flat, and valley value changes, predicts future data changes, establishes warning mechanisms, and provides decision-making support for formulating energy-saving measures.



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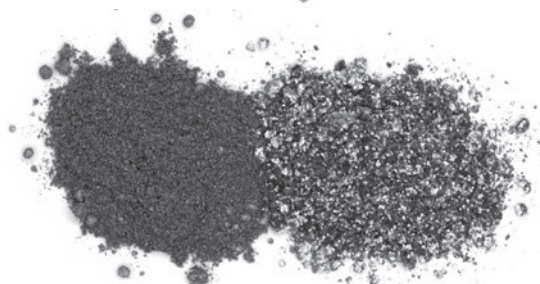
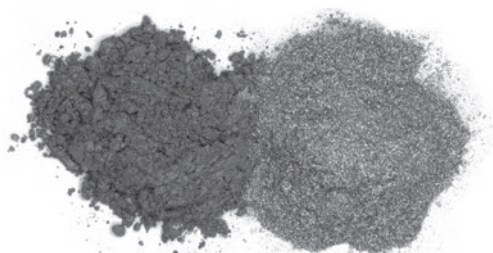
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