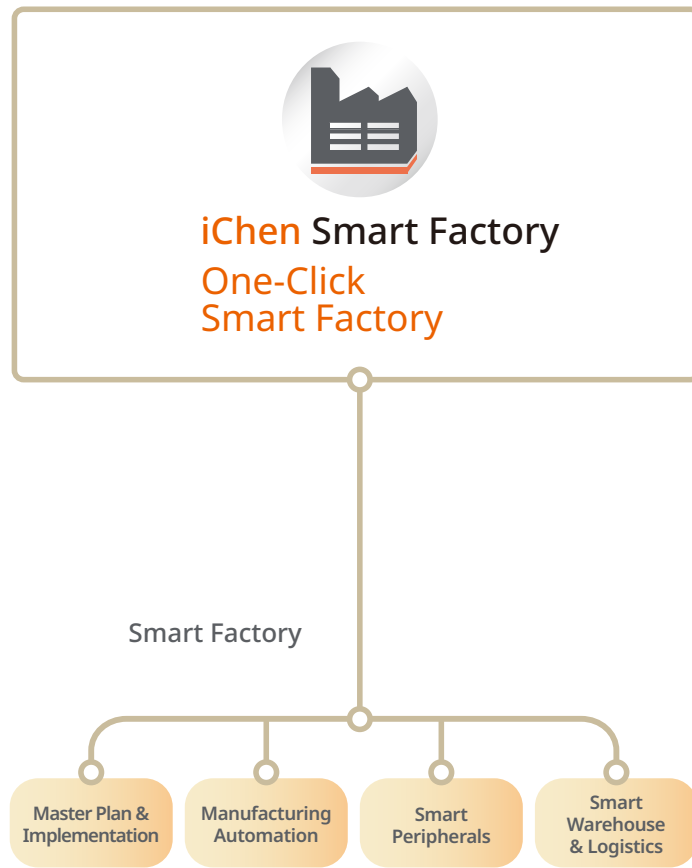


iChen Smart Factory



Workshop Layout

Workshop Layout
Auxiliary Equipment Selection
Utilities Planning
Automation Planning
Material Supply System
Logistics And Storage
Digitization

Longitudinal/Entry Robotic Arm + Main Conveyor Belt
Robotic Arm + Roller Conveyor + Automated Guided Vehicle (AGV) + Transfer

Auxiliary Equipment Selection

Workshop Layout
Auxiliary Equipment Selection
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Dust Free Crusher
Dryer
Dryer
Vacuum Material Extractor
Screw Chiller
Water Chiller
Cooler
Mold Temperature Controller

Material Supply System

Workshop Layout
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Utilities Planning

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Utilities Planning

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Machine Data Injection Molding Workshop

| Item | Unit | Value | Unit | Value | Unit | Value | Unit | Value | Unit | Value |
|-------|------|-------|-------|-------|------|----------------|--------|-------|-------------|-------|
| Power | kW | 1.5 | Water | m³/h | 10 | Compressed Air | kg/min | 100 | Temperature | °C |
| Power | kW | 1.5 | Water | m³/h | 10 | Compressed Air | kg/min | 100 | Temperature | °C |
| Power | kW | 1.5 | Water | m³/h | 10 | Compressed Air | kg/min | 100 | Temperature | °C |

Logistics And Storage

According to the product quality requirements, packaging, the next process destination, to develop to meet the requirements of the enterprise logistics, warehousing plan.

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Traditional Method
Promotional Method
Mold Vertical Warehouse
Common Method
Promotional Method
Product Vertical Warehouse

Automation Planning

Based on product quality and logistics requirements, combined with equipment, to provide an automated solution that offers cost-effectiveness and ensures successful implementation.

Workshop Layout
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Automatic Spine Cutting
Automatic Mold Material Retrieval
Assembly of Molding Machine
AGV Mold Handling Cart
AGV Transportation

iChen™ Smart Factory

One-Click Smart Factory

Industry 4.0 Made Easy: The central cloud platform for real-time data visualisation, management, and insights.

- 01 Visualisation analysis and management
- 02 Equipment status and efficiency
- 03 Advanced production planning and smart dispatching
- 04 Visual inspection and quality assurance
- 05 AI-powered molding optimisation expert embedded into our machines
- 06 Centralised execution management
- 07 Integration of automated equipment reducing on manual labor
- 08 Energy consumption monitoring
- 09 AGV logistics flow
- 10 Automated storage and WMS

