

# 1 One-stop Smart Logistics Solution

## SMART++ Intelligent Logistics Information System



### Smart Warehouse

|                           |                 |
|---------------------------|-----------------|
| <b>Pallet</b>             | <b>Tote Box</b> |
| <b>Empty Base Support</b> | <b>Dense</b>    |

### Automatic Handling

|                      |                          |
|----------------------|--------------------------|
| <b>Flexible</b>      | <b>Rail</b>              |
| <b>Overhead Hang</b> | <b>Palletizing Robot</b> |

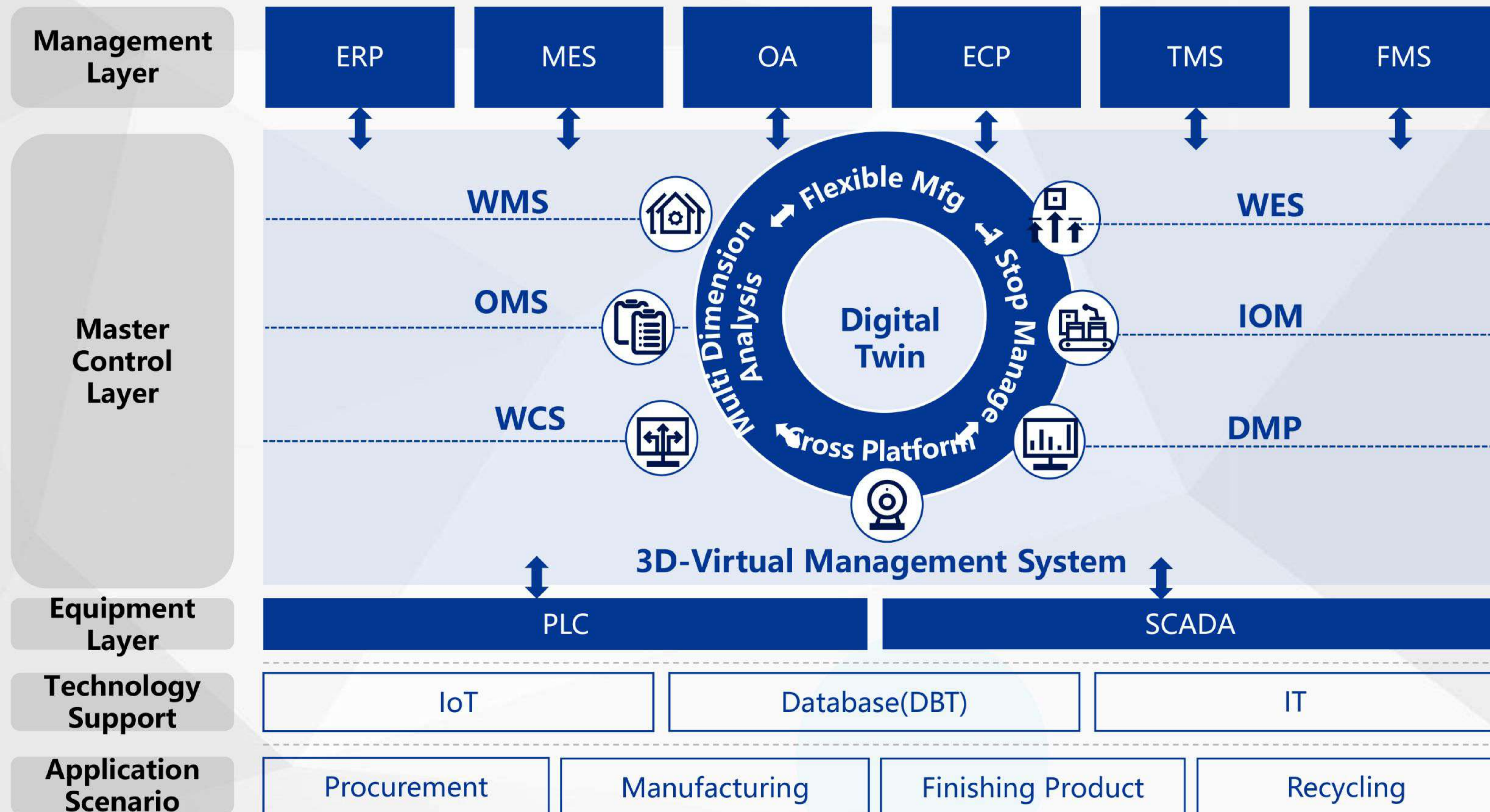
### Conveying and sorting

|                           |                            |
|---------------------------|----------------------------|
| <b>High Speed Sorting</b> | <b>Sorting Robot</b>       |
| <b>Conveyor Equipment</b> | <b>Packaging Equipment</b> |

### Smart Picking

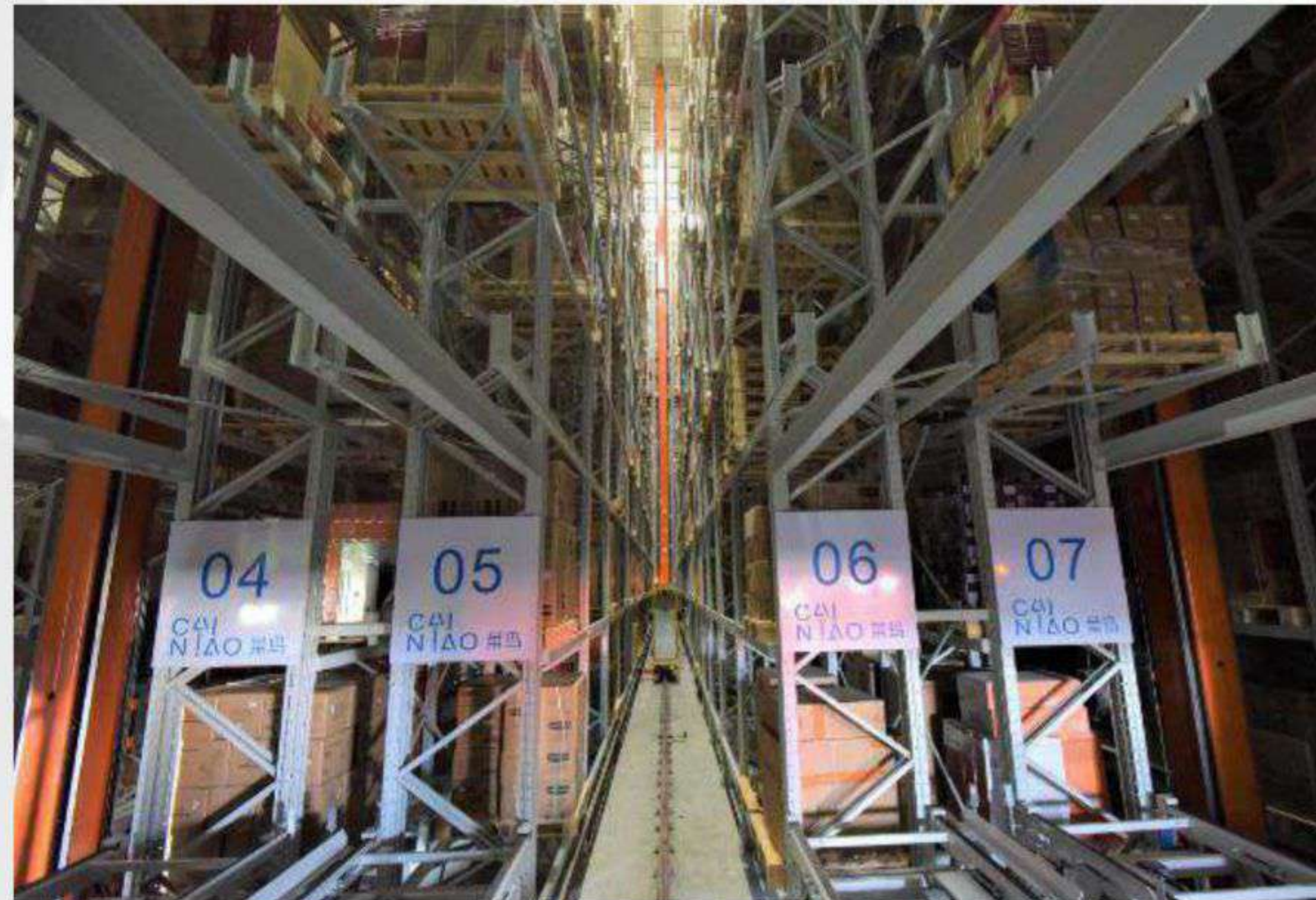
|                                  |                      |
|----------------------------------|----------------------|
| <b>Picking Station</b>           | <b>Voice Picking</b> |
| <b>Picking wall Seeding wall</b> | <b>Picking Robot</b> |

## 2 Intelligent Logistics Information System



# 3 Smart Warehouse

Pallet



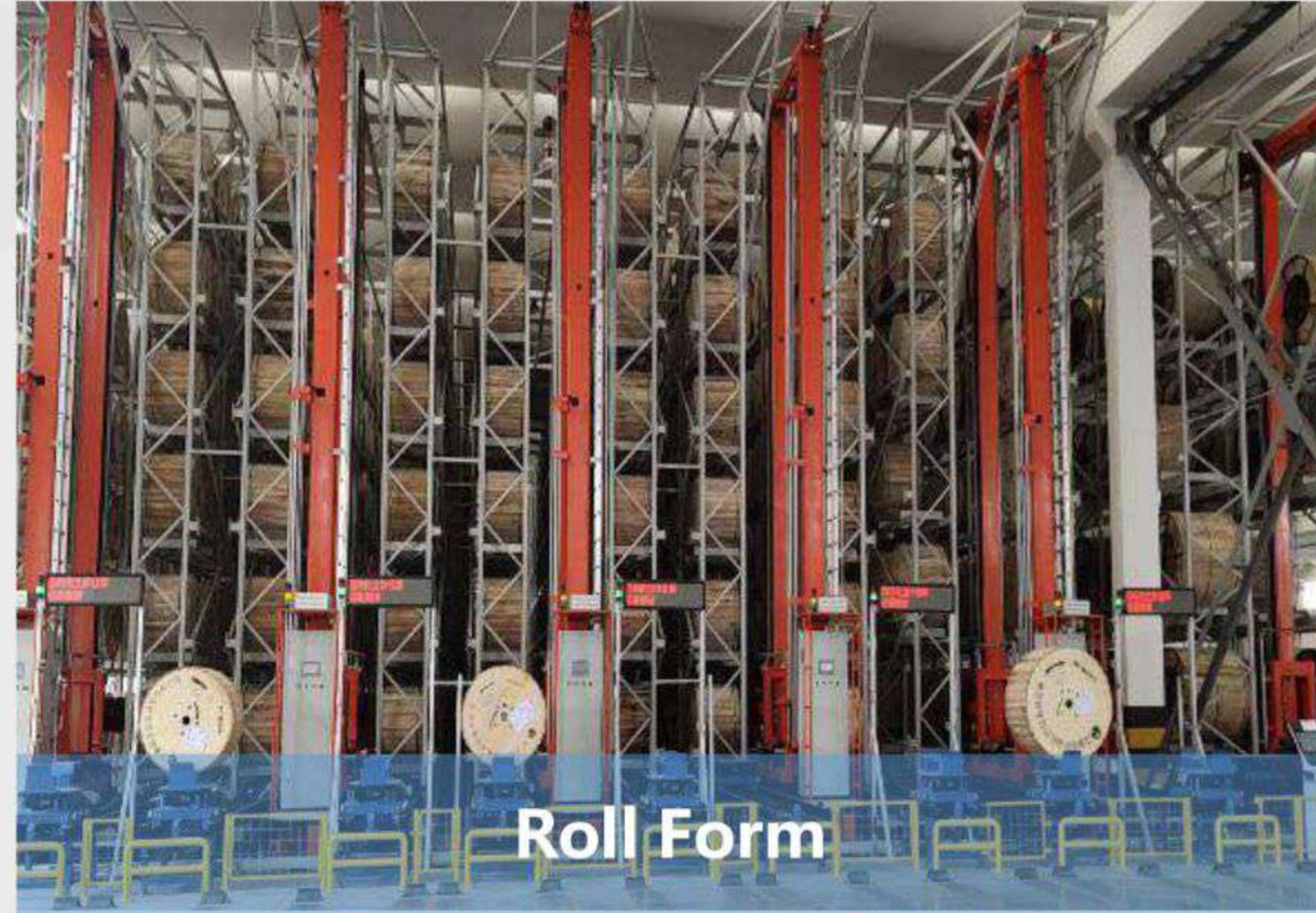
# 3 Smart Warehouse

Tote Box



# 3 Smart Warehouse

Empty Base Support



### 3 Smart Warehouse

Dense Environment



Multi-shuttle



4 Directional multi-shuttle+ moving Fork



Pallet Car



Stacker Crane+Shuttle Plate

# 3 Smart Warehouse



Longest stacker Crane



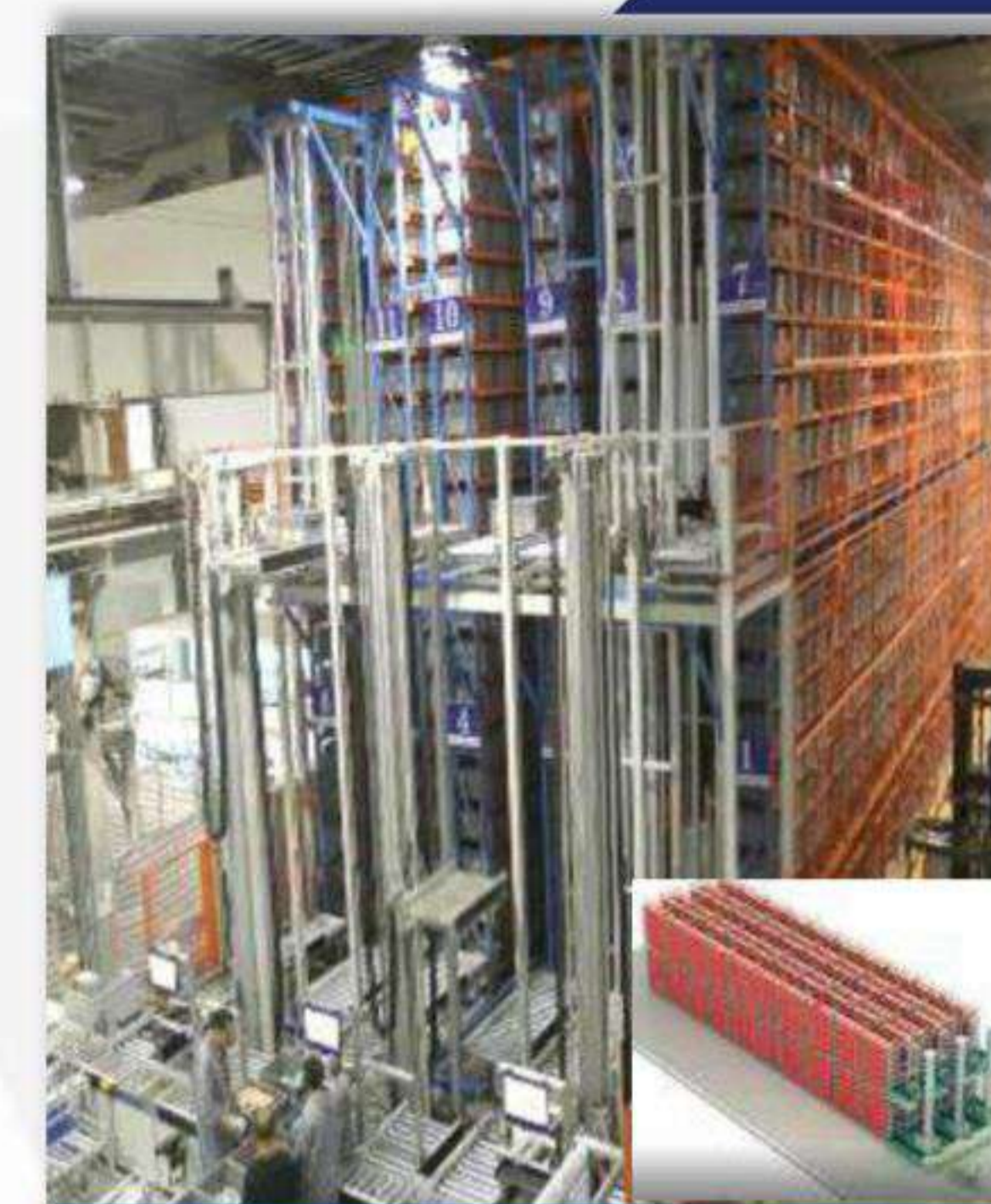
High Speed Stacker Crane



High Payload Stacker



Highest Stacker Crane



Double Deck Stacker Crane



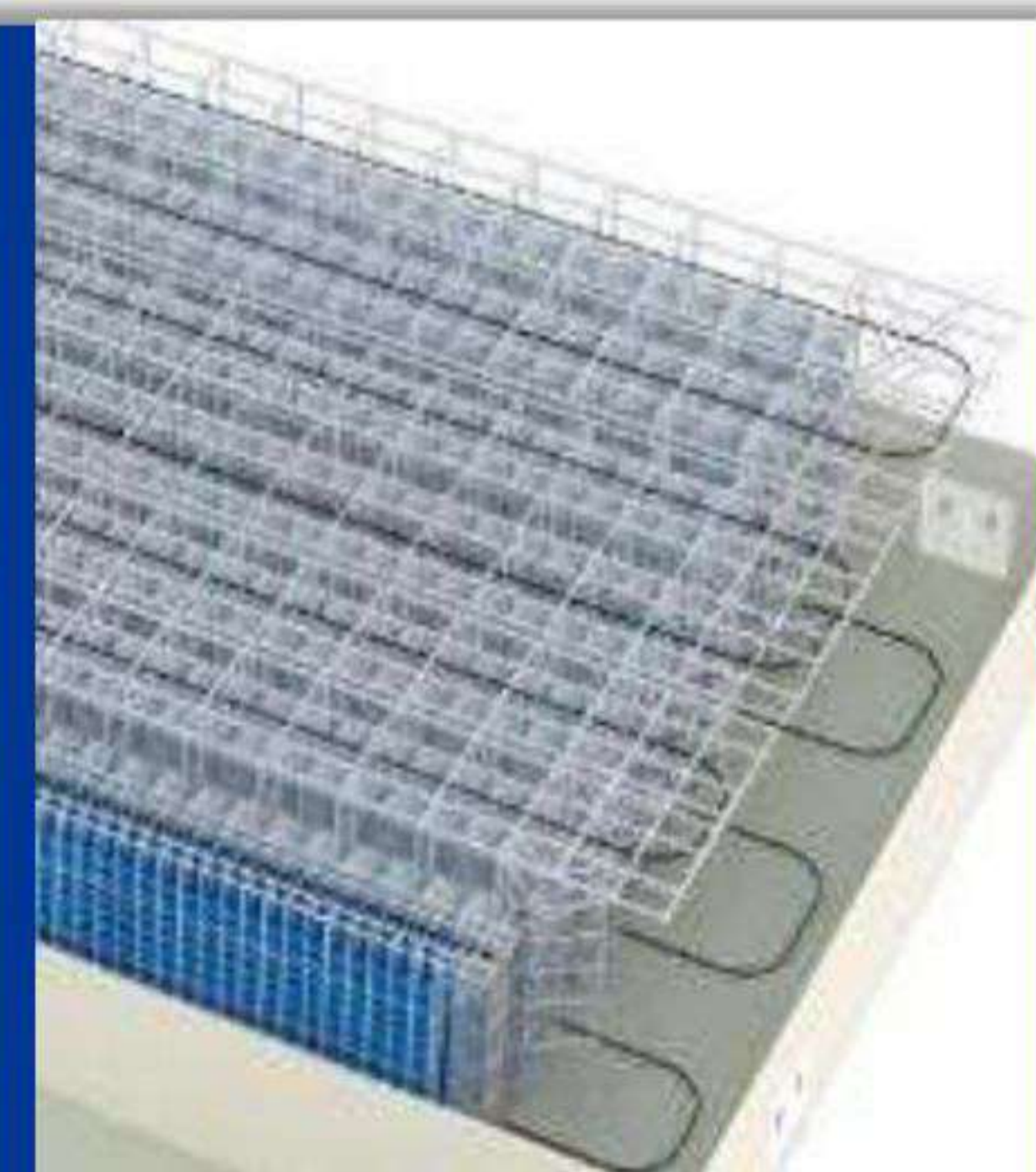
Single rail multiple crane

## Product customization

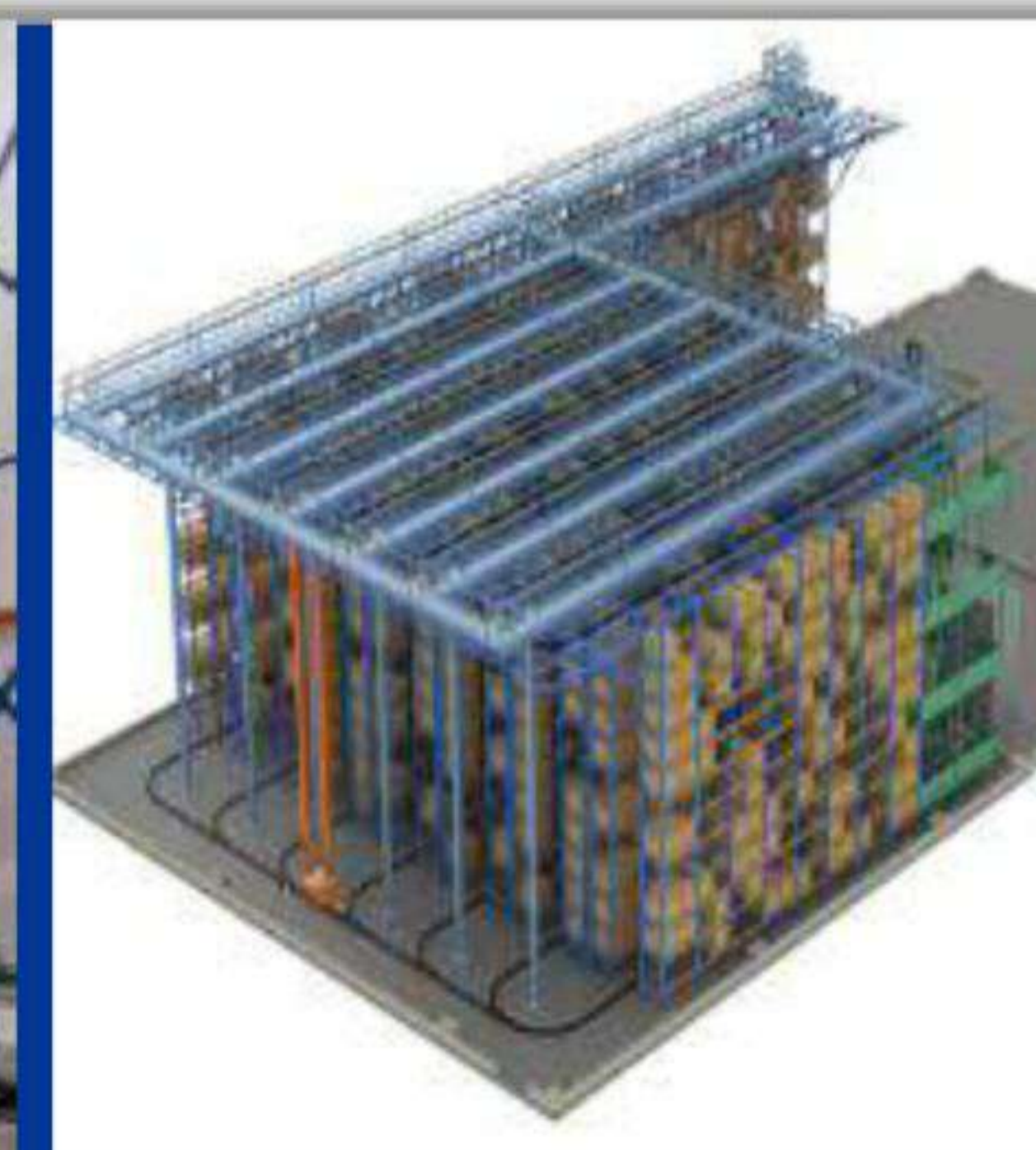
Based on standardized and modularized mature products, Siasun provides a variety of customized products to meet the needs of customers in different industries and has been successfully applied and promoted in many fields.






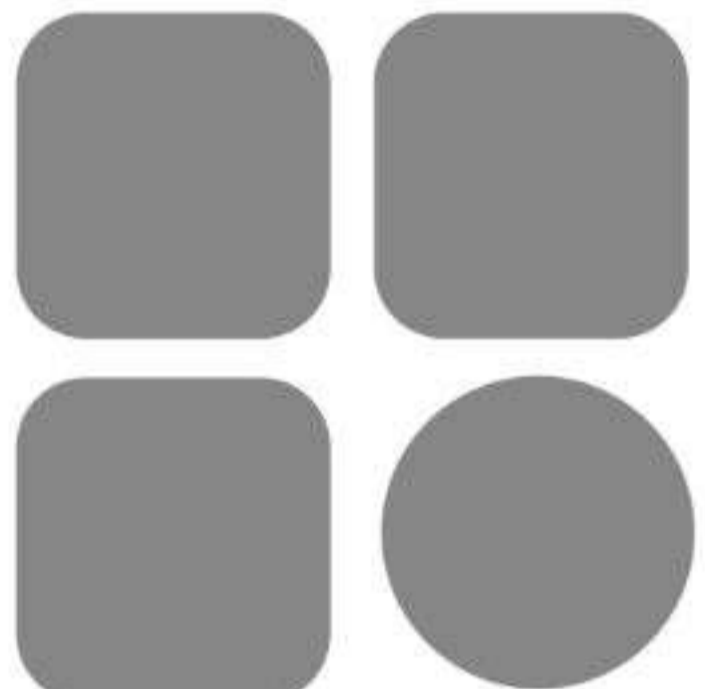




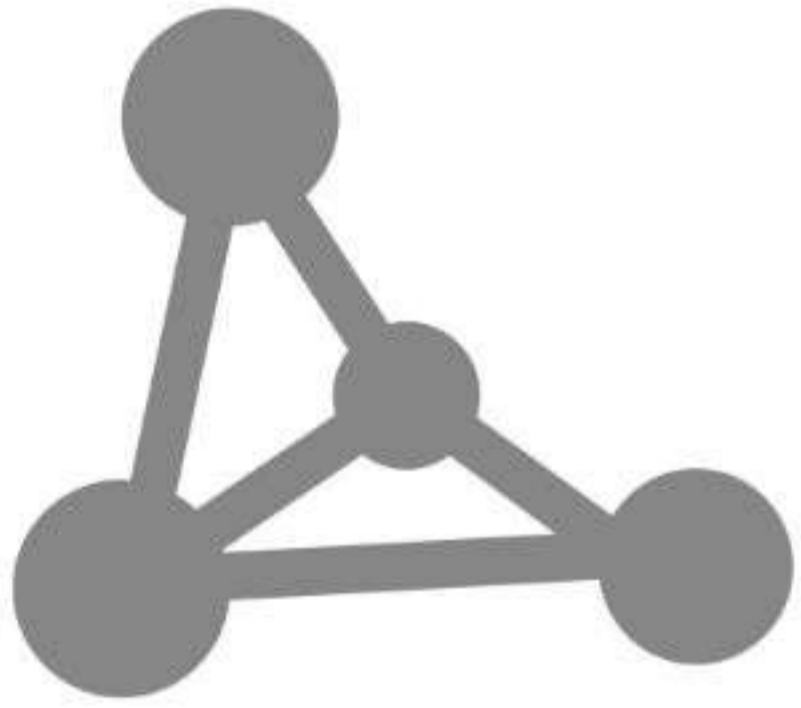



Curved Stacker Crane



TurnOut Stacker Crane



|                       |   |  |  |   |   |  |
|-----------------------|---|--|--|---|---|--|
| General Configuration | <br>Track abnormal object cleaning | <br>S curve runs smoothly                | <br>Stack shape abnormal detect | <br>Multiple safety protection | <br>Low cost maintenance | <br>Modular Configuration |
| Value Added Services  | <br>CCTV Monitoring              | <br>Enclosed fire extinguishing device | <br>Energy Feedback           | <br>Inventory Check          | <br>Multi Crane        | <br>3D monitoring       |



### 3 Smart Warehouse

#### Stacker Crane Number



# 4 Automatic Handling

Flexible



Gripper AGV



Racking AGV



Forklift AGV



Flooring AGV



Conveyor AGV



Manless AGV



Tote box AGV



Customized AGV

# 4 Automatic Handling

Rail Type



Chain RGV



Roller RGV



Short RGV



Loop RGV



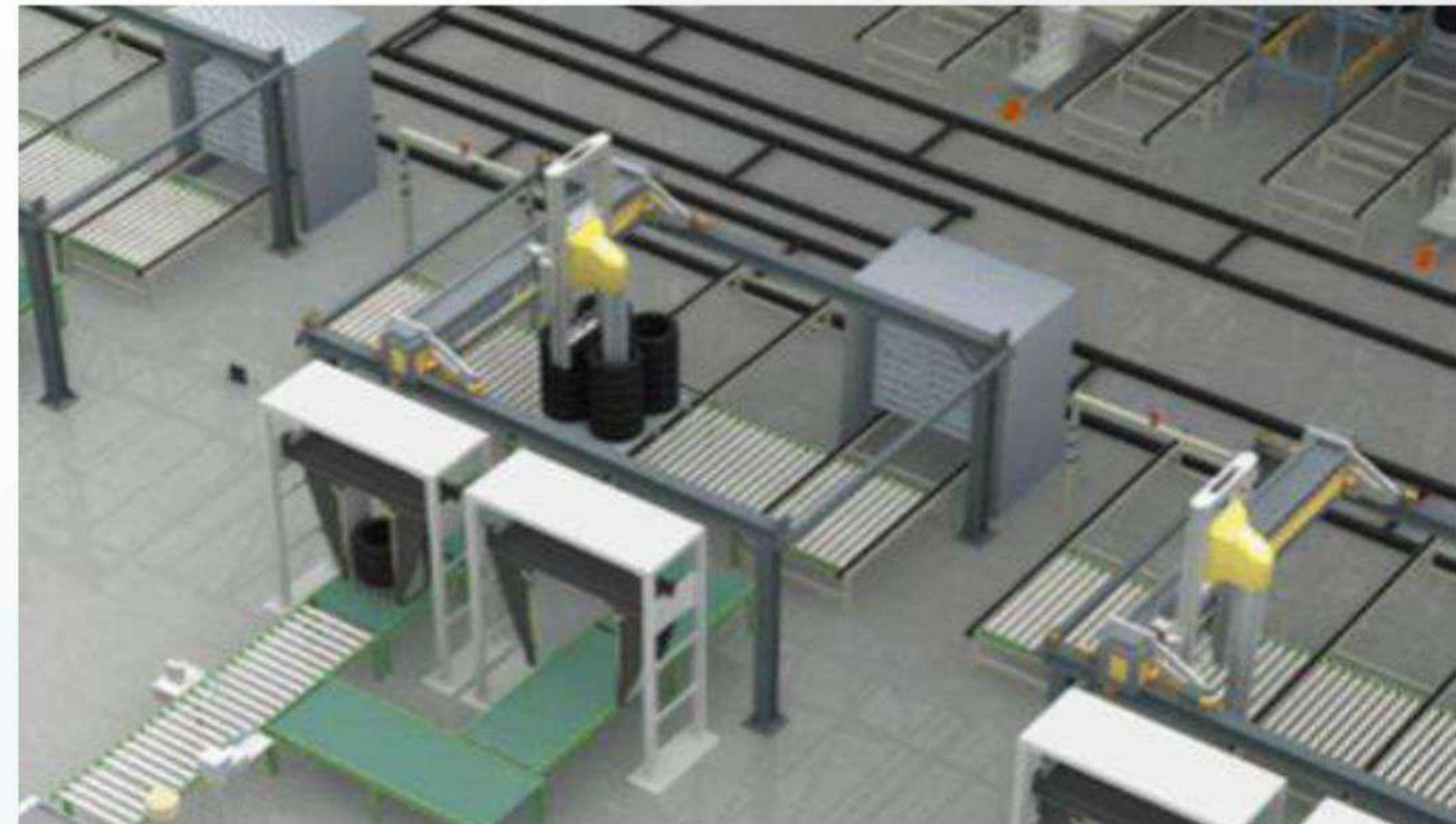
Fork type RGV



Multi station RGV

# 4 Automatic Handling

Overhead Hang



# 4 Automatic Palletizing

Palletizing and Depalletizing Robot



Single Carton



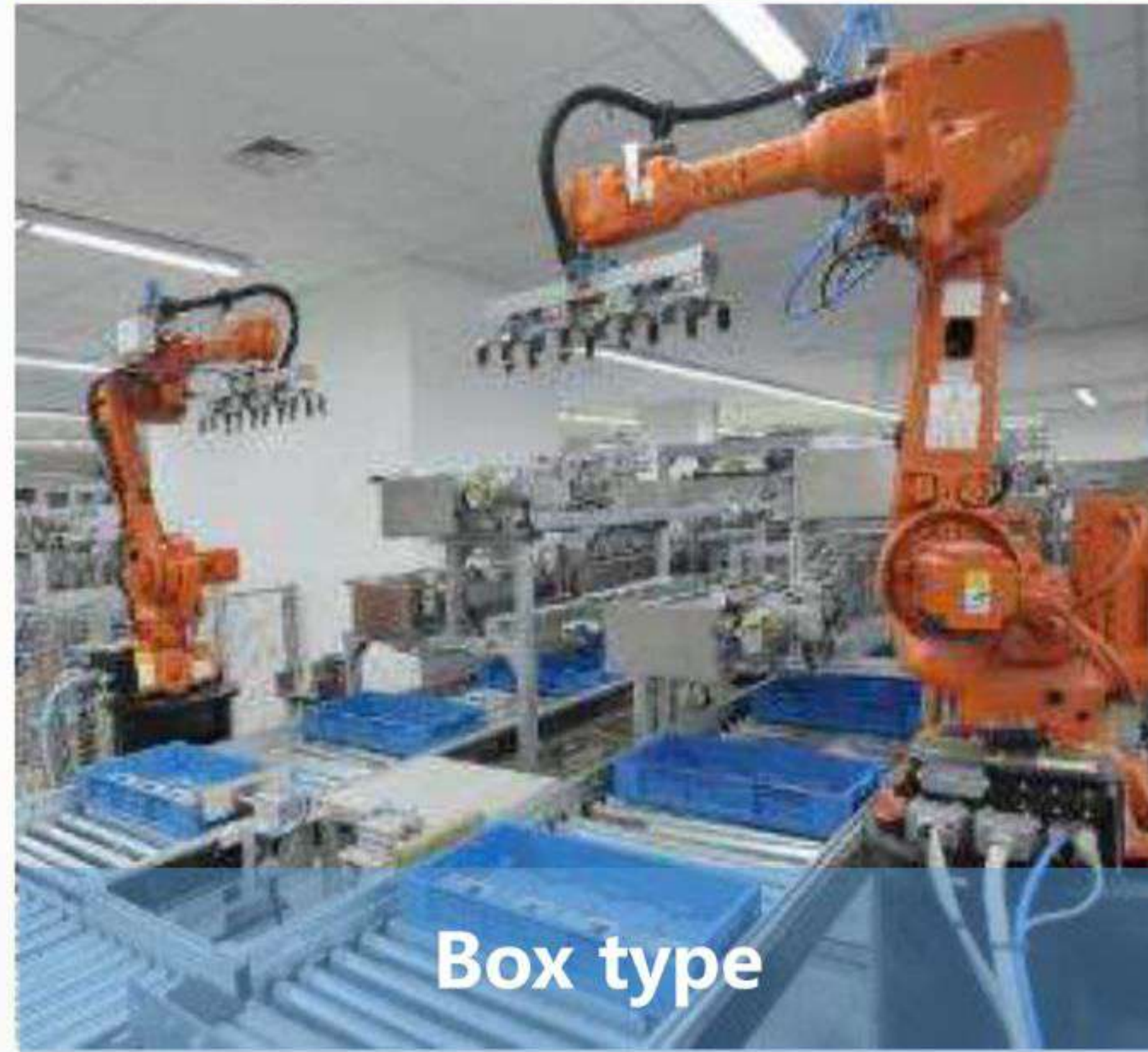
Multi Carton



Bag Type



Roll Type



Box type



Roll Type

# 5 High Speed Sorting

**Cross Belt**



**Modular Conveyor**



**Wave Sort**



**Shoe Sort**



**Roller Type**



**Narrow Movement**

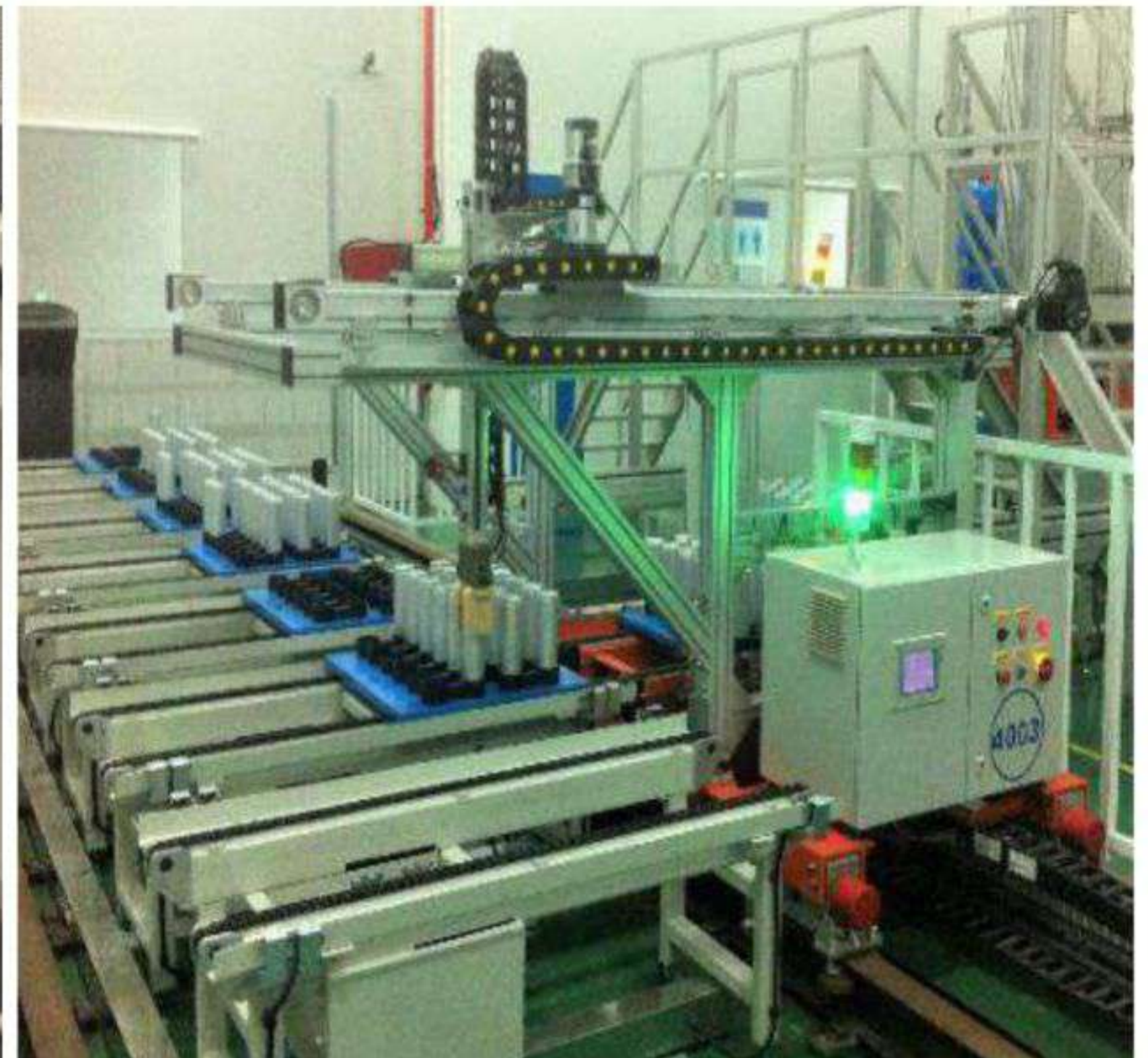
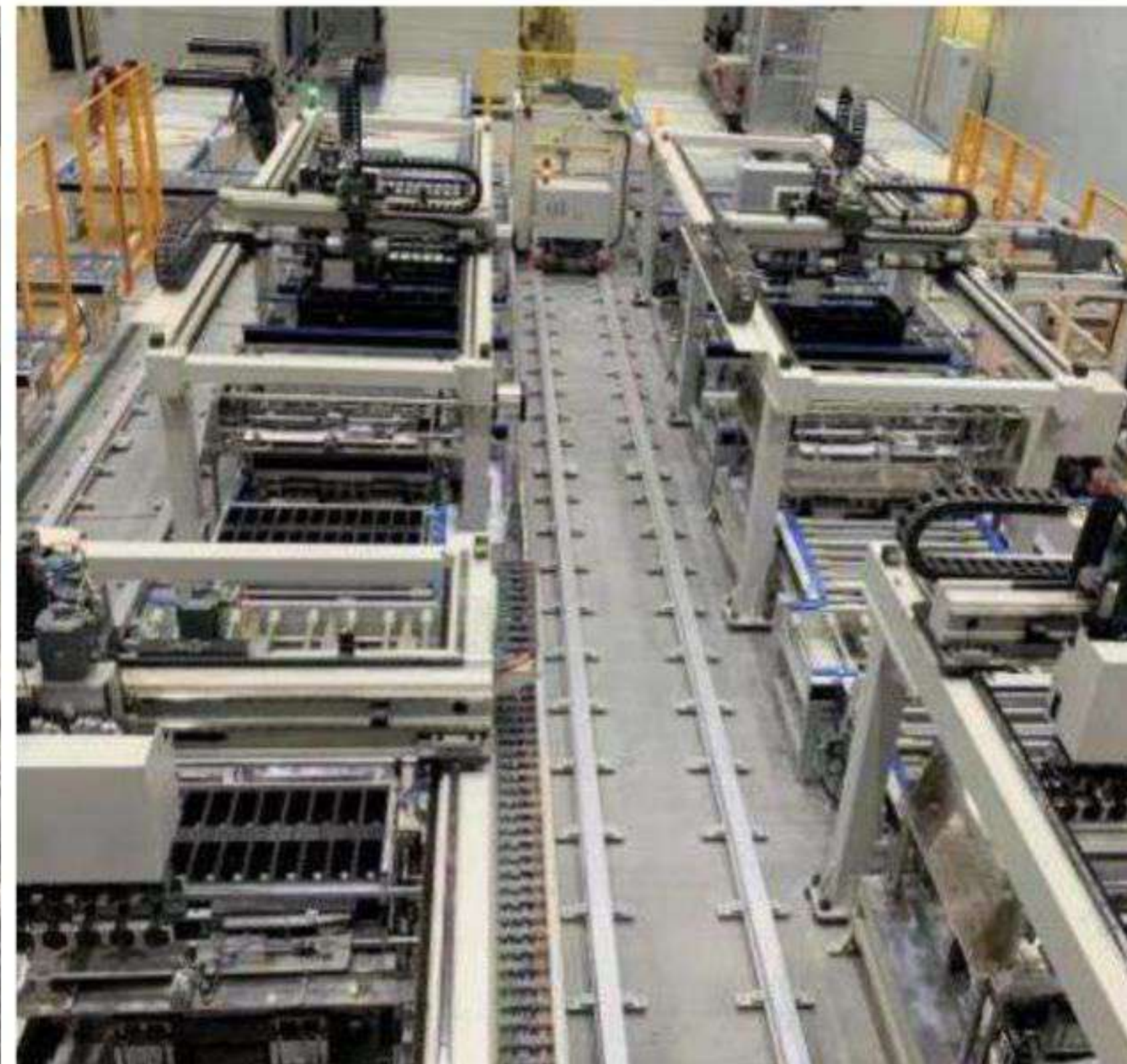


# 6 Smart Picking

Aid-Human Picking



Robotic Picking



# 7 Industry Solution (E-commerce)



## System

- ◆ High speed sorting
- ◆ High speed info reading
- ◆ High speed parcel checking



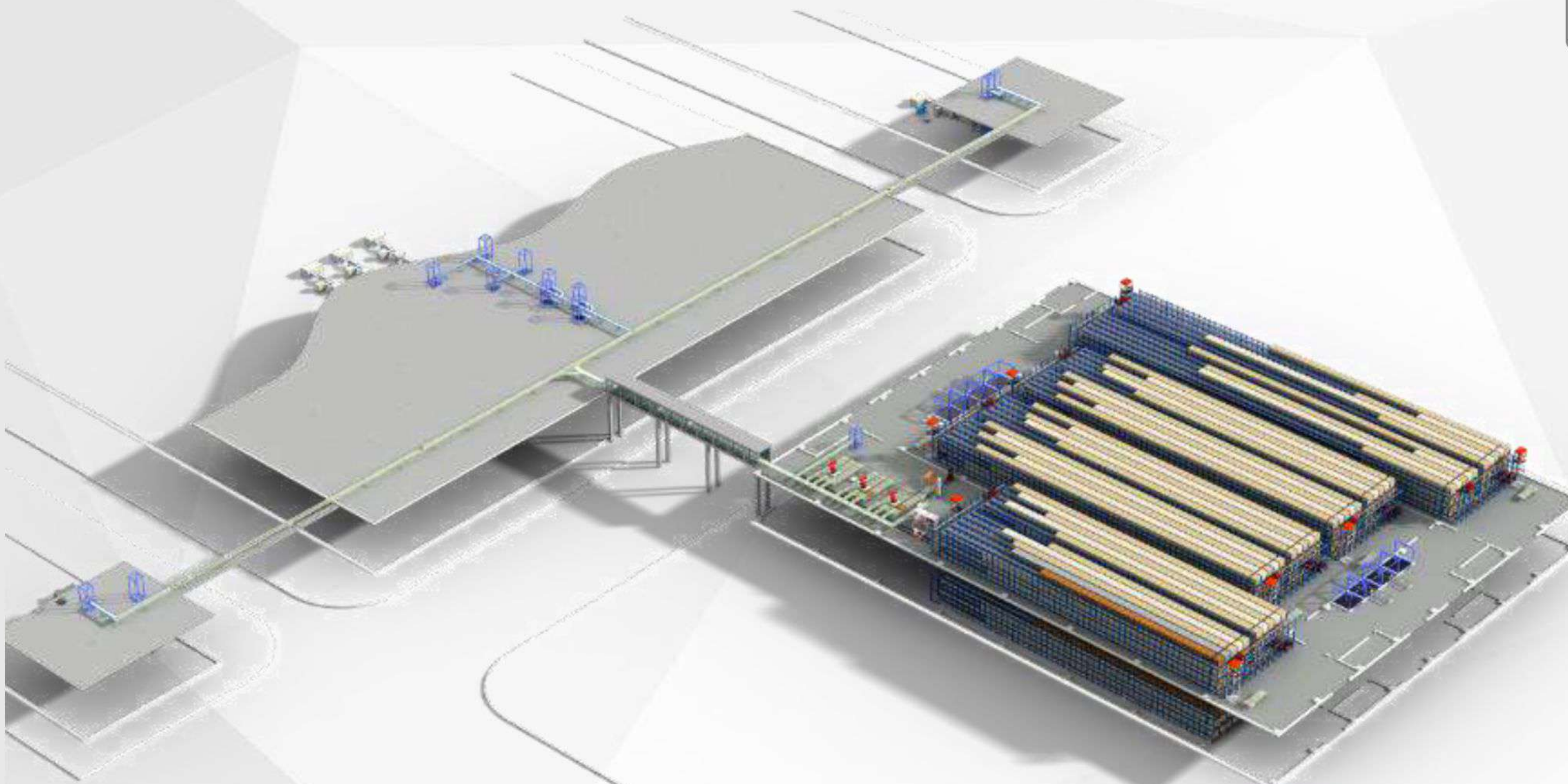
## Value Added

- ◆ Reduce manpower
- ◆ Precise Sorting

|              |          |      |
|--------------|----------|------|
| Control Part |          |      |
|              | Conveyor | Sort |



# 7 Industry Solution (Medical)



## System

- ◆ Double Deep Stacker Crane
- ◆ Multi-shuttle dense warehouse
- ◆ AGV
- ◆ Lifter
- ◆ Palletizing Robot

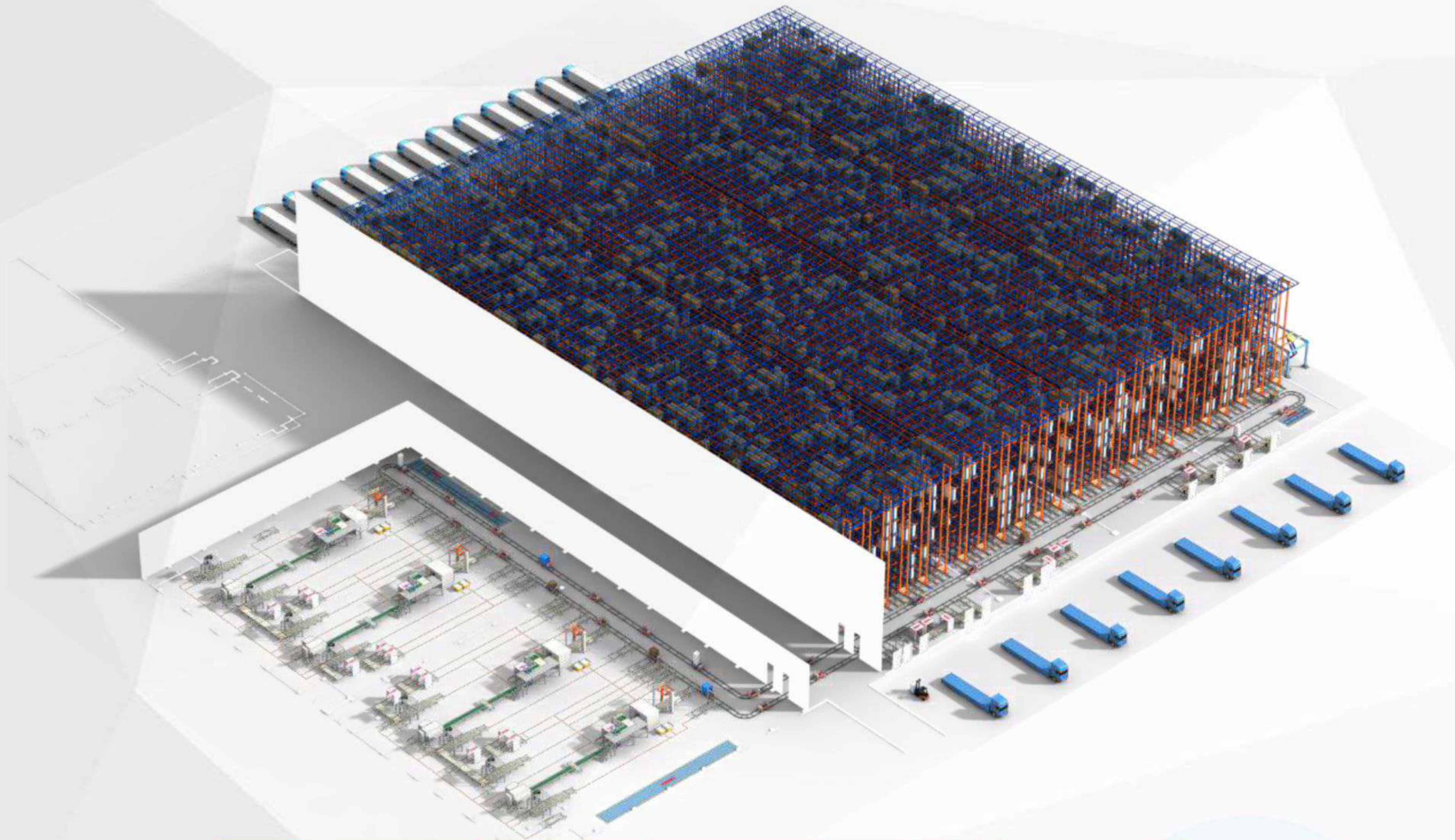


## Value Added

- ◆ Unified management of multiple warehouses
- ◆ Increase warehouse utilization
- ◆ Information traceability throughout the entire process
- ◆ Meet GMP/GSP regulatory requirements

|              |                      |                 |                        |                       |
|--------------|----------------------|-----------------|------------------------|-----------------------|
| Control Part |                      |                 |                        |                       |
|              | Raw Material Storage | Packing Storage | Finish Product Storage | Manufacturing Process |

# 7 Industry Solution (Chemical)



## System

- ◆ Pallet Stacker Crane
- ◆ Loop multi-shuttle
- ◆ AGV
- ◆ Auto palletizing
- ◆ Auto packaging
- ◆ Auto truck loading

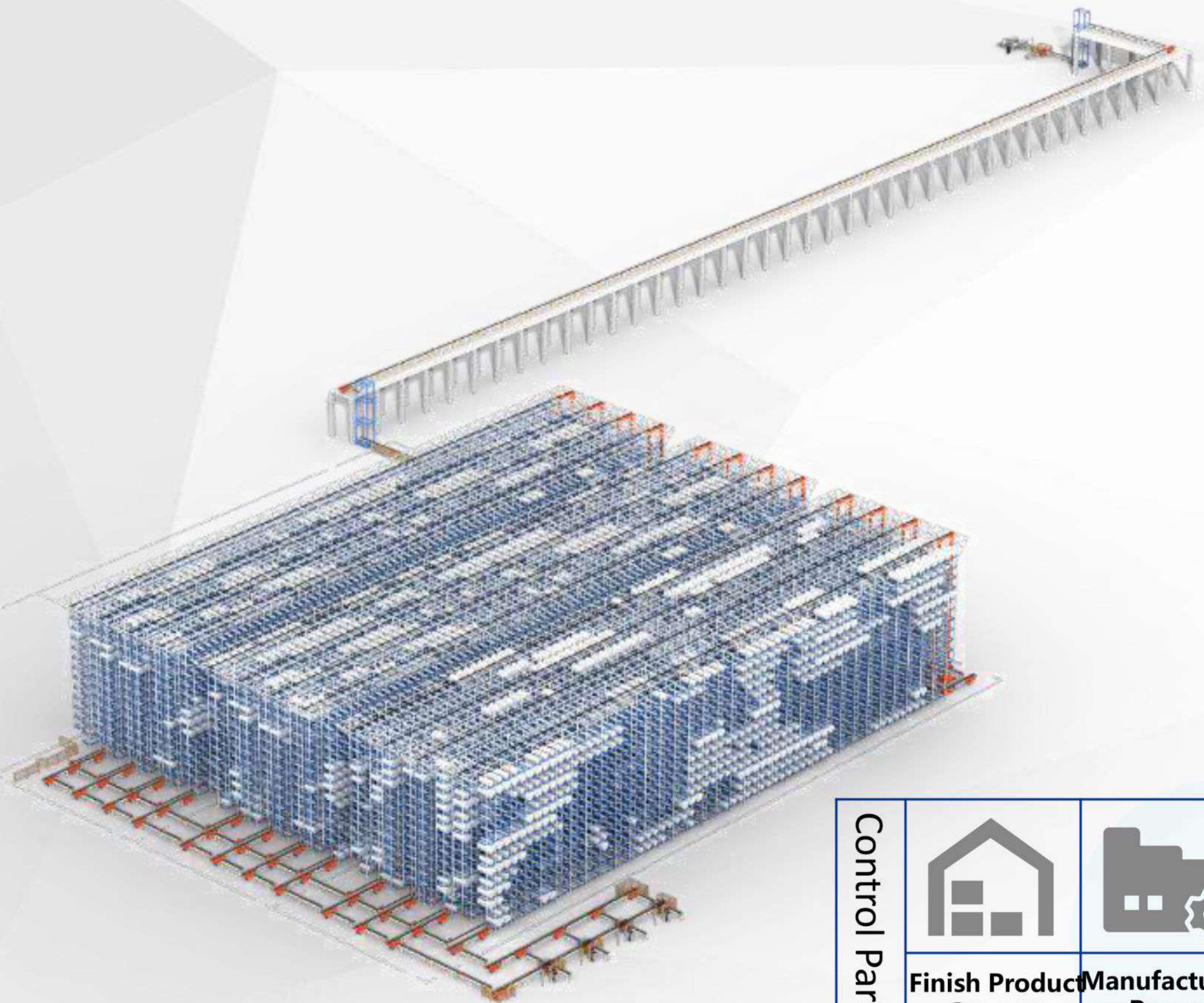


## Value Added

- ◆ Integrated management and control of warehousing, production and distribution
- ◆ Reduce operating costs
- ◆ System energy saving design
- ◆ Fully automatic operation process

|              |   |  |   |   |   |
|--------------|---|--|---|---|---|
| Control Part |  |  |  |  |  |
|              | Packing Storage   | Finish Product Storage   | Manufacturing Process   | Packing   | Distribution  |

# 7 Industry Solution (Chemical Fibre)




## System

- ◆ Empty base support stacker crane
- ◆ V Shape conveyor plate
- ◆ Lifter
- ◆ Adaptive visual recognition

## Value Added

- ◆ Integrated management and control of warehousing, production and distribution
- ◆ Long-distance automatic conveying
- ◆ Increase warehouse utilization
- ◆ Efficient access

|              |   |   |   |
|--------------|---|---|---|
| Control Part |  |  |  |
|              | Finish Product Storage  | Manufacturing Process   | Distribution  |

# 7 Industry Solution (Electrical)



## 系统组成

- ◆ Miniload
- ◆ Picking robot
- ◆ Picking station
- ◆ Auto-labelling
- ◆ Lifter

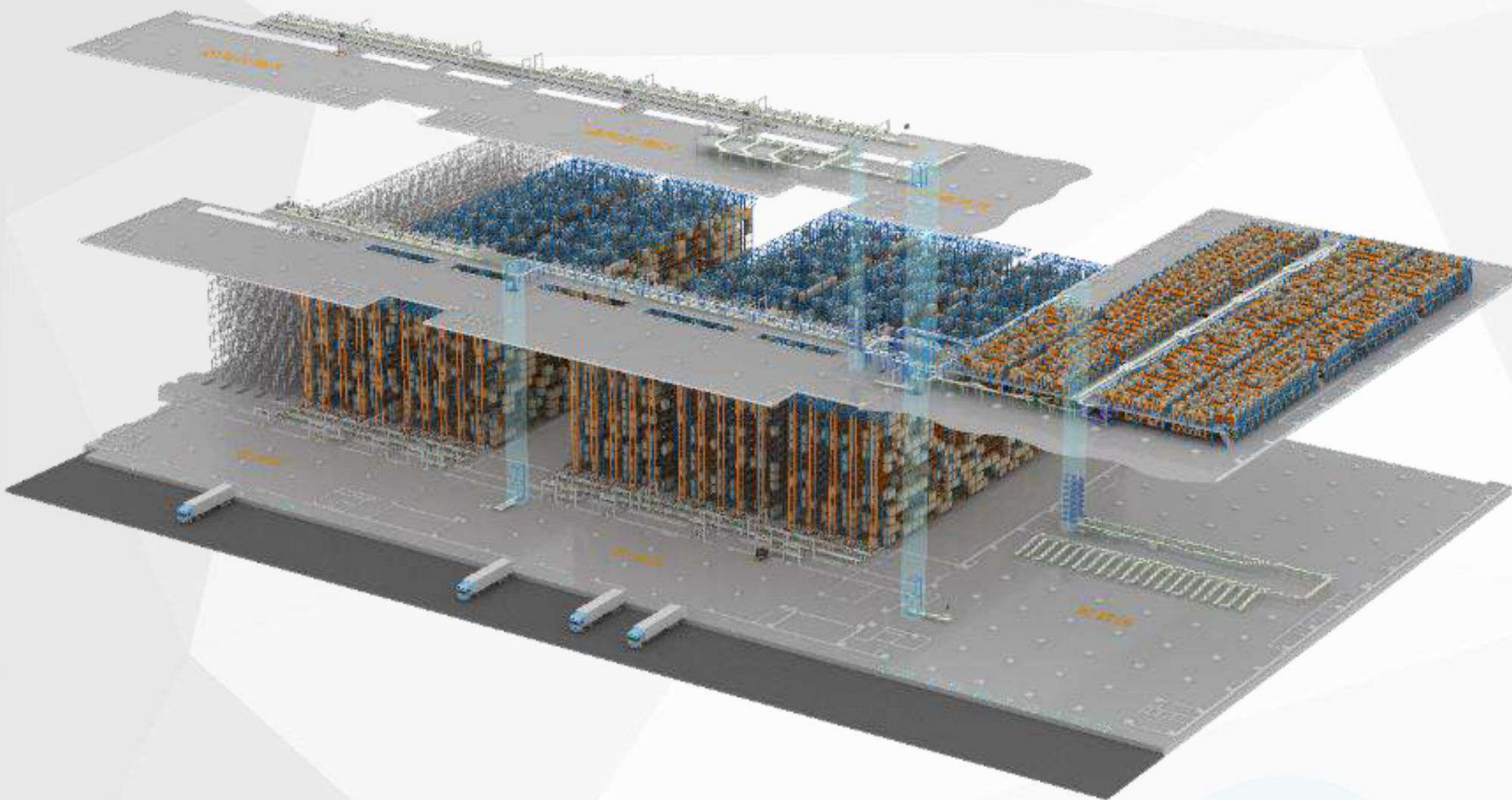


## Value Added

- ◆ Efficient access
- ◆ Intelligent distribution of orders
- ◆ High precise picking
- ◆ Workflow digitalization

|              |   |   |   |   |
|--------------|---|---|---|---|
| Control Part |  |  |  |  |
|              | Raw Material Storage  | Finish Product Storage  | Picking   | Packing   |

# 7 Industry Solution (Shoes)



## System

- ◆ High pallet stacker crane
- ◆ Online picking channel
- ◆ E-commerce dismantled zero picking
- ◆ Picking robot
- ◆ Slipping sorting module

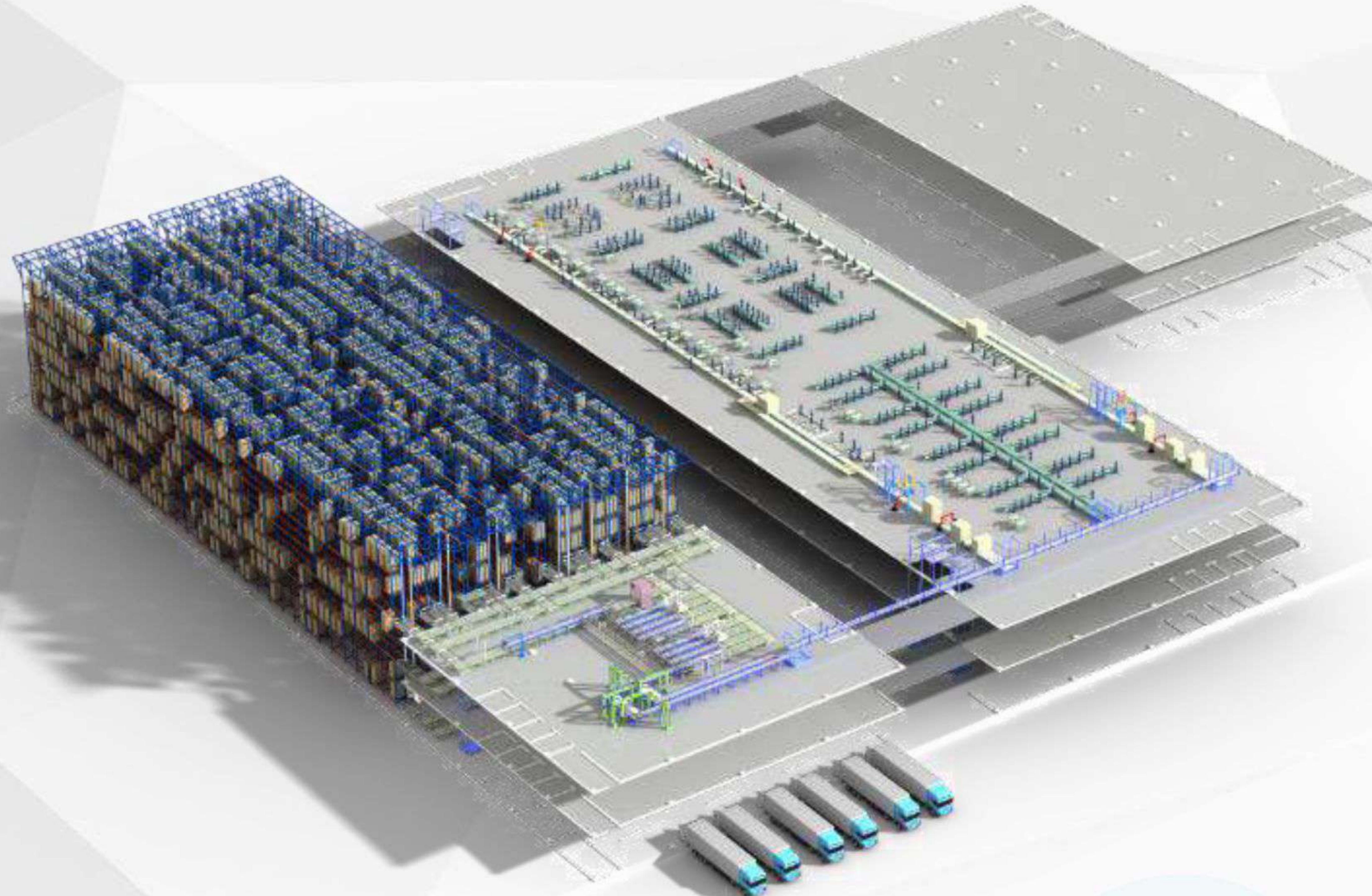


## Value Added

- ◆ Efficient Access
- ◆ Online real-time replenishment
- ◆ Intelligent distribution of orders
- ◆ Dismantled zero picking
- ◆ Workflow Digitalization

|              |   |  |   |   |
|--------------|---|--|---|---|
| Control Part |  |  |  |  |
|              | <b>Storage</b>  | <b>Sorting</b>   | <b>Picking</b>  | <b>Distribution</b>   |

# 7 Industry Solution (Furniture)



## System

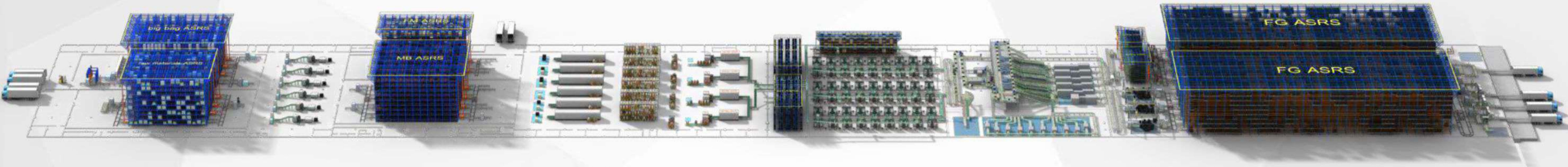
- ◆ Double Deep ASRS
- ◆ Palletizing Robot
- ◆ AGV
- ◆ Lifter
- ◆ Picking Robot

## Value Added

- ◆ Increase warehouse utilization
- ◆ Production JIT supply material
- ◆ Human-Robot operation
- ◆ Integrated management and control of warehousing, production and distribution

|              |   |  |   |   |   |   |
|--------------|---|--|---|---|---|---|
| Control Part |  |  |  |  |  |  |
|              | Line side warehouse   | Finish Product Storage   | Manufacturing Process   | Raw Material Storage  | Accessories storage   | Distribution  |

# 7 Industry Solution (Tyre)



## System

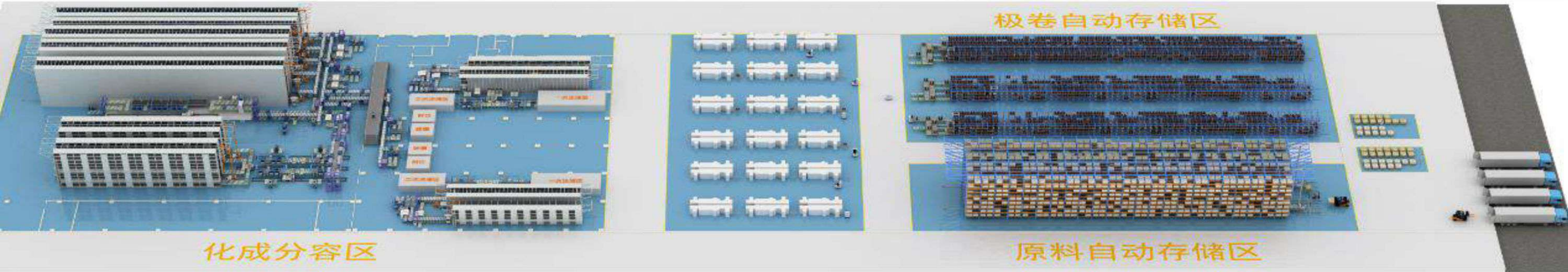
- ◆ Pallet stacker crane ASRS (Raw materials)
- ◆ Empty base stacker crane (Raw tyre)
- ◆ Overhead hang robot
- ◆ Inspection
- ◆ Sorting robot
- ◆ Pelletizing robot

## Value Added

- ◆ Increase warehouse utilization
- ◆ High speed sorting
- ◆ Precise Positioning
- ◆ Workflow Digitalization

|              |   |   |   |
|--------------|---|---|---|
| Control Part |  |  |  |
|              | <b>Storage</b>  | <b>Sorting</b>  | <b>Distribution</b>   |

# 7 Industry Solution (New Energy)



## System

- ◆ Pallet stacker crane ASRS
- ◆ Special customized stacker crane
- ◆ Sorting robot
- ◆ Picking robot



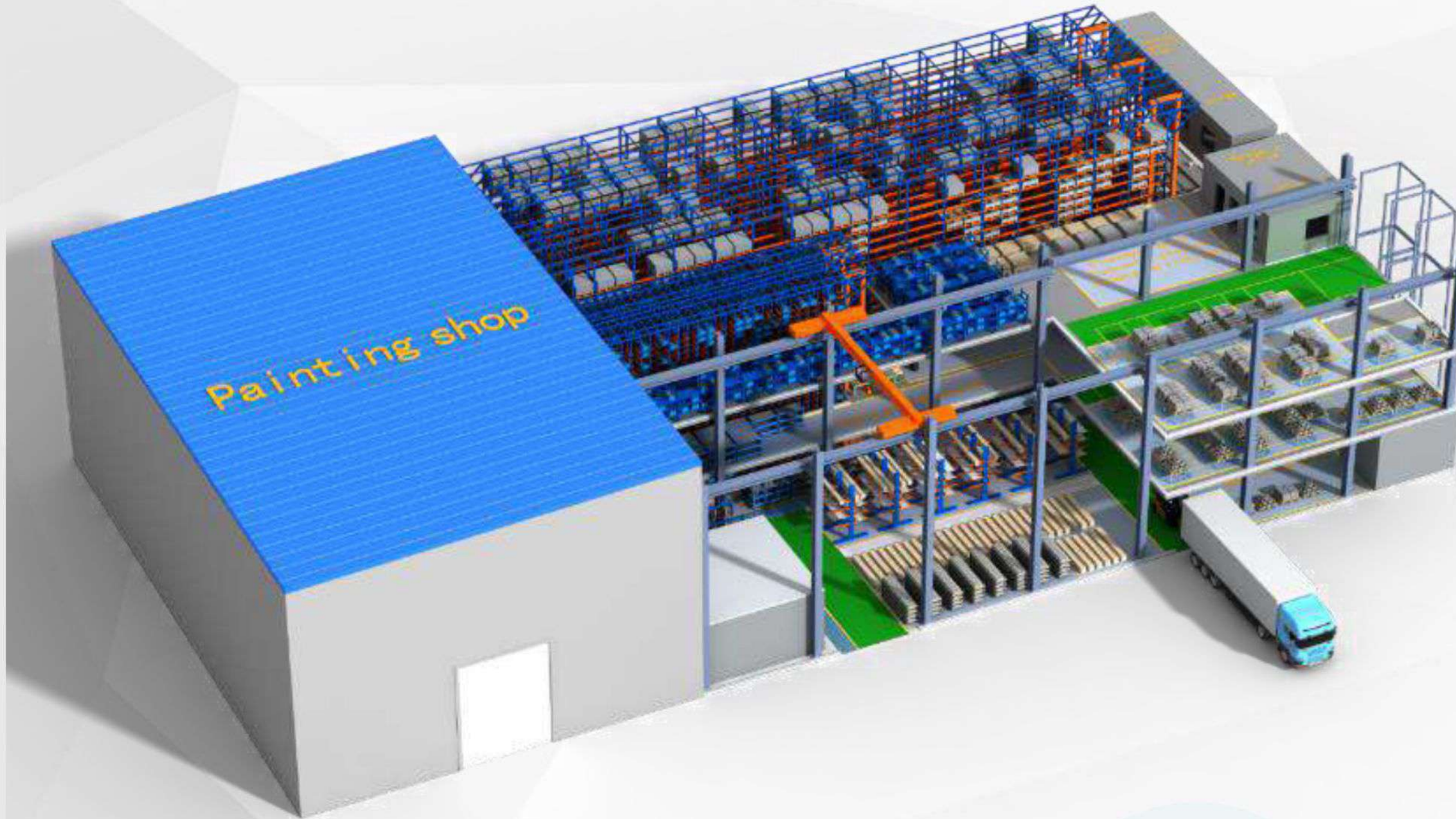
## Value added

- ◆ Flexible manufacturing
- ◆ Whole process control
- ◆ Production data visualization

|              |                          |                          |                            |
|--------------|--------------------------|--------------------------|----------------------------|
| Control Part |                          |                          |                            |
|              | Room temperature storage | High temperature storage | Production process control |



# 7 Industry Solution (Machinery/automotive)





## System

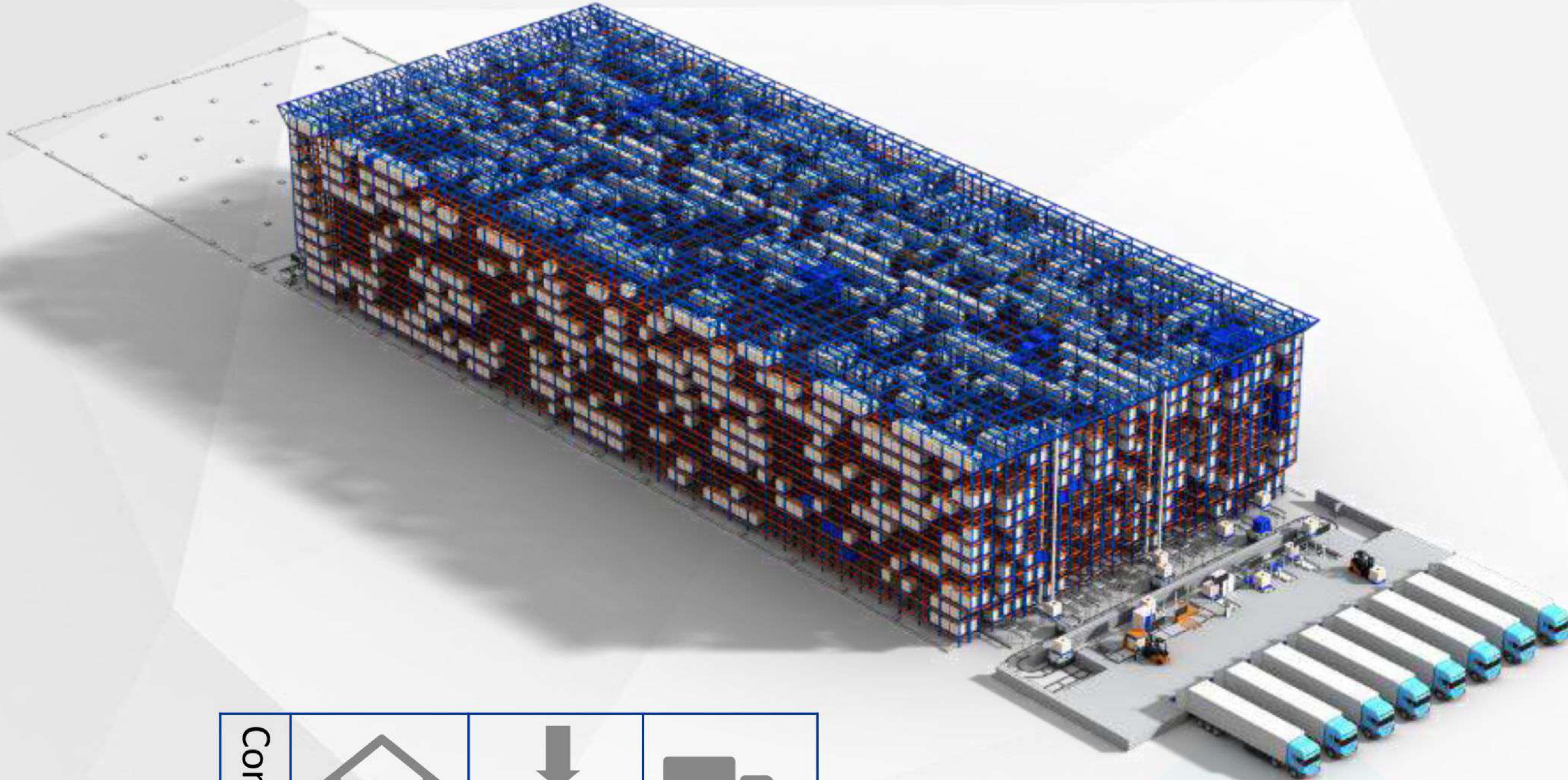
- ◆ Pallet stacker crane ASRS
- ◆ Miniload
- ◆ Picking station
- ◆ Rail Shuttle

## Value Added

- ◆ Integrated management and control of warehousing, production and distribution
- ◆ Flexible manufacturing
- ◆ Workflow Digitalization

|              |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|
| Control Part |  |  |  |  |  |  |
|              | Raw Material Storage  | Semi-finishing storage  | Finish Product Storage  | Manufacturing Process   | Line side warehouse   | Distribution  |

# 7 Industry Solution (New Material)



## System

- ◆ Double Deep Crane System
- ◆ Looping RGV
- ◆ Palletizing Robot
- ◆ Auto Pallet Swap
- ◆ Auto Loading



## Value Added

- ◆ Storage and Logistic
- ◆ High Throughput
- ◆ Full Automation Process

|              |   |   |   |
|--------------|---|---|---|
| Control Part |  |  |  |
|              | <b>Storage</b>  | <b>Packaging</b>  | <b>Distribution</b>   |

# 7 Industry Solution (Printing)



## System

- ◆ Pallet stacker crane ASRS
- ◆ Rail shuttle
- ◆ AGV
- ◆ Palletizing robot

## Value Added

- ◆ Flexible Manufacturing
- ◆ Workflow digitalization
- ◆ Visualize production data

|              |   |  |   |   |   |
|--------------|---|--|---|---|---|
| Control Part |  |  |  |  |  |
|              | Raw Material Storage  | Semi-finish product storage  | Finish Product Storage  | Manufacturing Process   | Line side warehouse   |

# 1 Turnkey Project Service



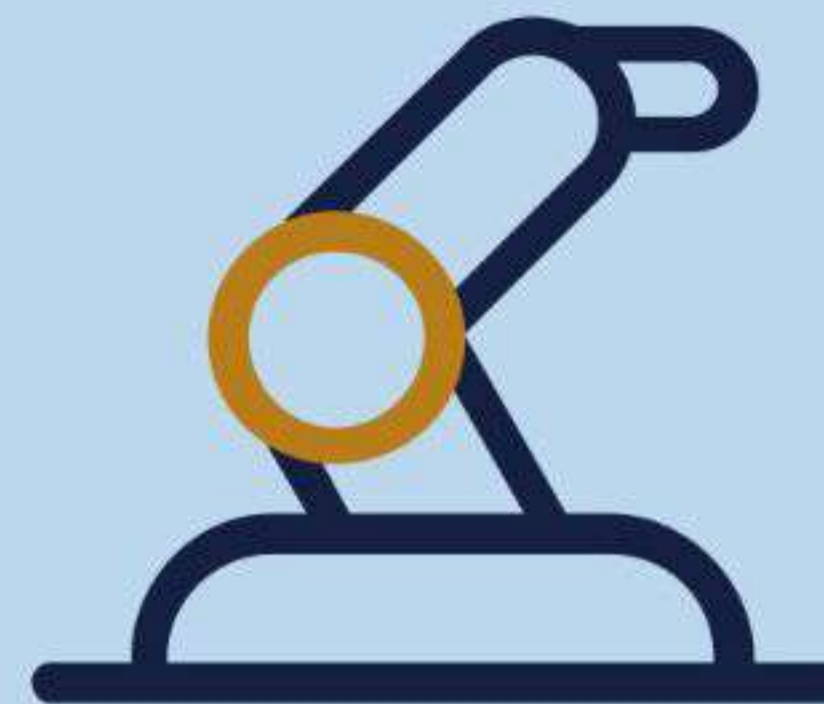
## Consulting planning

Request study  
Research data analysis  
Process Re-engineering  
Proposal Design



## System Design

Detailed design  
Design output  
Process Optimization  
Virtual delivery



## Manufacturing

Manufacturing  
Quality system  
Progress control  
Factory inspection



## Project implementation

Equipment installation  
System debugging  
Online training  
Operation guidance



## After Sales Services

Online diagnosis  
Regular inspection  
Resident service  
Technical Support