



AUCTECH Makes Human Life  
and Manufacturing More Convenient



## AHP Series High Payload 4-axis Palletizing Robot Catalog

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# AUCTECH

To be a world-leading robot expert

AUCTECH industrial robots are faster, more reliable, and more precise.

Every second and every motion of industrial robots matter throughout manufacturing, and that explains why robot reliability and speed come first for us. After years of updating and improving, our products have become faster and more reliable, with more functions integrated into a compact size. That makes applications easier, production more stable, and intelligent manufacturing more efficient.



# Product Advantages



## Wide Payload Range

- The rated payload ranges from 50kg to 800kg, catering to diverse production scenarios.
- For example, the AHP-50-1600 has a rated payload of 50kg, while the AHP-800-3150 can handle up to 800kg, making it suitable for handling, palletizing, and other tasks.

## Large Working Range

- The maximum working radius ranges from 1600mm to 3200mm, with maximum working heights ranging from 1400mm to 2800mm.
- For instance, the AHP-180-3200 has a maximum working radius of 3200mm, making it ideal for large workpiece processing or material handling.

## High Precision Positioning

- The repeatable positioning accuracy is as high as  $\pm 0.05\text{mm}$ , ensuring precision in multiple operations.
- Especially suitable for applications requiring high accuracy, such as assembly and machining.

## Flexible Drive and Control

- Driven by AC servo motors, providing stable power output.
- Paired with a teach pendant programming mode, operators can quickly adjust tasks and easily program the robot for various operations.

## Convenient Installation Options

- Supports both floor and mobile installation type, offering flexibility to adapt to the layout and process requirements of the production site.
- Reduces installation costs and time, allowing the robot to quickly adapt to different work environments.

## Strong Environmental Adaptability

- Capable of operating stably in temperatures ranging from  $-5^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ , suitable for harsh industrial environments.
- Ensures reliable performance in various climatic conditions or special production environments.



# Product Series



**AHP-50-1600**

Payload: 50kg  
Reach: 1600mm

**AHP-120-2100**

Payload: 120kg  
Reach: 2100mm

**AHP-150-2600**

Payload: 150kg  
Reach: 2600mm

**AHP-180-3200**

Payload: 180kg  
Reach: 3200mm

**AHP-200-3000**  
**AHP-300-3150**

Payload: 200kg 300kg  
Reach: 3000mm 3150mm

**AHP-500-3150**  
**AHP-800-3150**

Payload: 500kg 800kg  
Reach: 3150mm 3150mm



# AHP-50-1600

- Latest structural optimization design, providing high rigidity during robot movement.
- Supports various installation methods: floor type and mobile type.
- Outstanding stability and industry-leading motion speed to meet quality and cycle time requirements.

Name	Scope of work	Speed
J1	-360° to +360°	173°/s
J2	-86° to +47°	113°/s
J3	-58° to +24°	110°/s
J4	-360° to +360°	197°/s
Number of axis	4	
Payload	50kg	
Reach	1600mm	
Palletizing height	1400mm	
Repeatability	±0.05mm	
Power supply	Three-phase 380V 4.5KW	
Power consumption	Three-phase 380V 2.5-3.5KW (According to the running speed)	
Weight	300kg	
Drive type	AC servo motor	
Control method	Teach pendant	
Mounting type	Floor/mobile type	
Ambient temperature	-5°C to +40°C	

## Applications



Palletizing





# AHP-120-2100

- Latest structural optimization design, providing high rigidity during robot movement.
- Supports various installation methods: floor type and mobile type.
- Outstanding stability and industry-leading motion speed to meet quality and cycle time requirements.

Name	Scope of work	Speed
J1	-360° to +360°	120°/s
J2	-73° to +50°	100°/s
J3	-73° to +75°	100°/s
J4	-360° to +360°	346°/s
Number of axis	4	
Payload	120kg	
Reach	2100mm	
Palletizing height	1500mm	
Repeatability	±0.05mm	
Power supply	Three-phase 380V 5KW	
Power consumption	Three-phase 380V 2.7-3.8KW (According to the running speed)	
Weight	525kg	
Drive type	AC servo motor	
Control method	Teach pendant	
Mounting type	Floor/mobile type	
Ambient temperature	-5°C to +40°C	

## Applications



Palletizing





# AHP-150-2600

- Latest structural optimization design, providing high rigidity during robot movement.
- Supports various installation methods: floor type and mobile type.
- Outstanding stability and industry-leading motion speed to meet quality and cycle time requirements.

Name	Scope of work	Speed
J1	-360° to +360°	187°/s
J2	-73° to +43°	76°/s
J3	-75° to +43°	69°/s
J4	-360° to +360°	233°/s
Number of axis	4	
Payload	150kg	
Reach	2600mm	
Palletizing height	2000mm	
Repeatability	±0.05mm	
Power supply	Three-phase 380V 6.5KW	
Power consumption	Three-phase 380V 3-5.5KW (According to the running speed)	
Weight	1120kg	
Drive type	AC servo motor	
Control method	Teach pendant	
Mounting type	Floor/mobile type	
Ambient temperature	-5°C to +40°C	






# AHP-180-3200

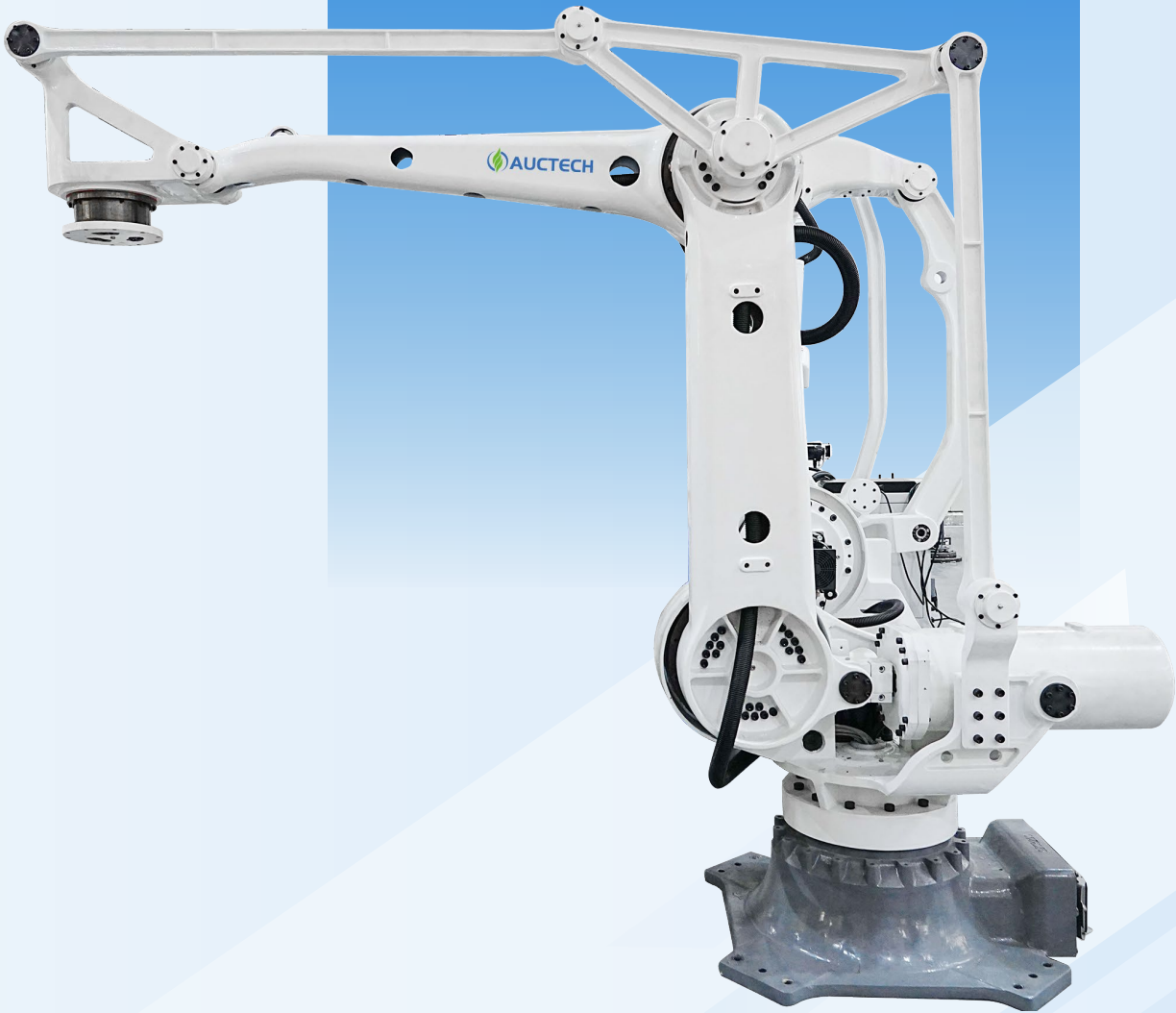
- Latest structural optimization design, providing high rigidity during robot movement.
- Supports various installation methods: floor type and mobile type.
- Outstanding stability and industry-leading motion speed to meet quality and cycle time requirements.

Name	Scope of work	Speed
J1	-360° to +360°	132°/s
J2	-74° to +52°	119°/s
J3	-60° to +50°	119°/s
J4	-360° to +360°	346°/s
Number of axis	4	
Payload	180kg	
Reach	3200mm	
Palletizing height	2500mm	
Repeatability	±0.05mm	
Power supply	Three-phase 380V 15KW	
Power consumption	Three-phase 380V 7.5-9.5KW (According to the running speed)	
Weight	1370kg	
Drive type	AC servo motor	
Control method	Teach pendant	
Mounting type	Floor/mobile type	
Ambient temperature	-5°C to +40°C	

Applications



Palletizing





# AHP-200-3000/AHP-300-3150

- Latest structural optimization design, providing high rigidity during robot movement.
- Supports various installation methods: floor type and mobile type.
- Outstanding stability and industry-leading motion speed to meet quality and cycle time requirements.

Name	AHP-200-3000		AHP-300-3150	
J1	-360° to +360°	132°/s	-360° to +360°	133°/s
J2	-42° to +65°	104°/s	-42° to +68°	83°/s
J3	-50° to +70°	104°/s	-50° to +70°	83°/s
J4	-360° to +360°	346°/s	-360° to +360°	222°/s
Number of axis	4		4	
Payload	200kg		300kg	
Reach	3000mm		3150mm	
Palletizing height	2500mm		2800mm	
Repeatability	±0.05mm		±0.05mm	
Power supply	Three-phase 380V 15KW			
Power consumption	Three-phase 380V 8-10KW (According to the running speed)			
Weight	2150kg		1800kg	
Drive type	AC servo motor			
Control method	Teach pendant			
Mounting type	Floor/mobile type			
Ambient temperature	-5°C to +40°C			





# AHP-500-3150/AHP-800-3150

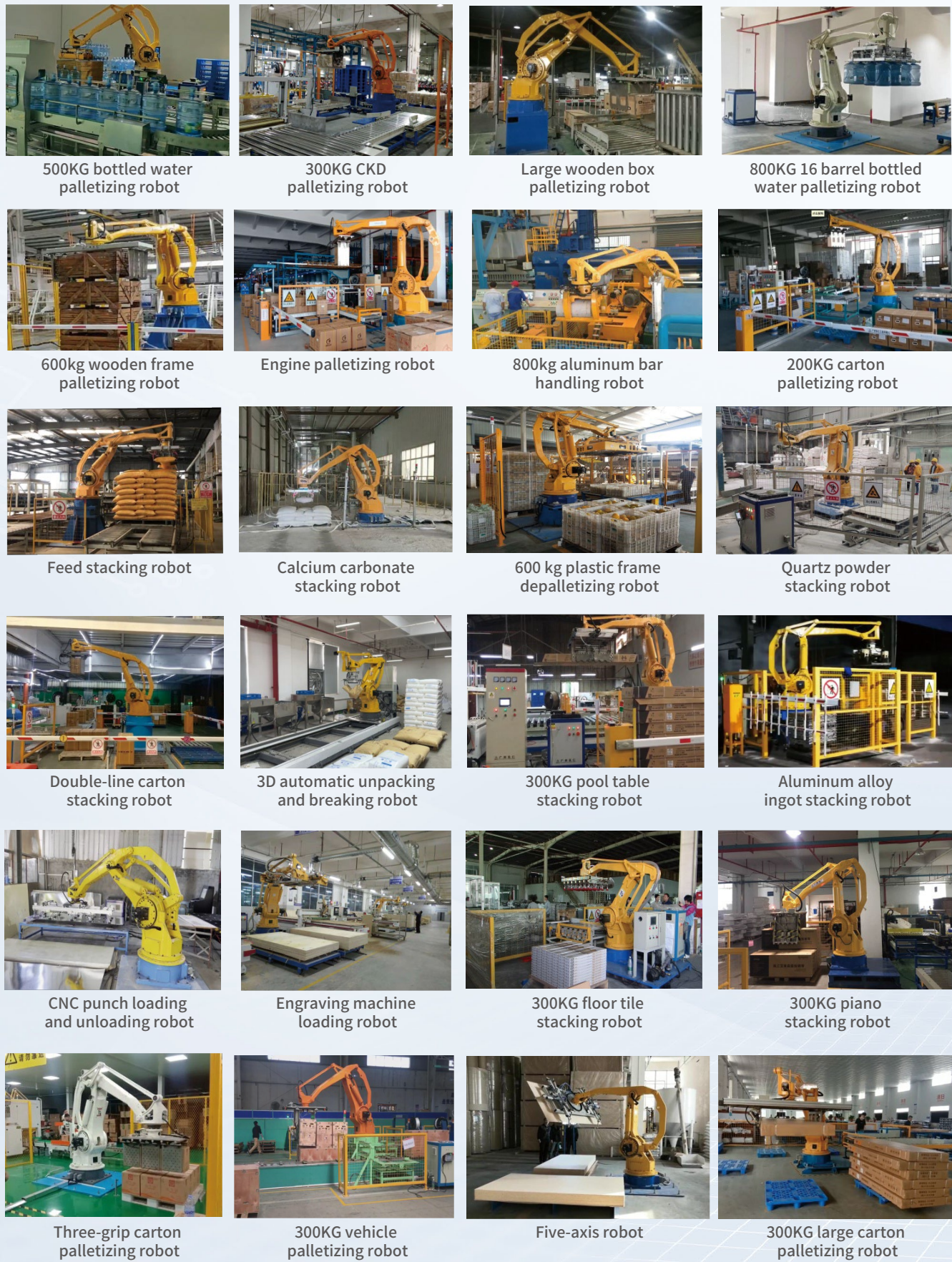
- Latest structural optimization design, providing high rigidity during robot movement.
- Supports various installation methods: floor type and mobile type.
- Outstanding stability and industry-leading motion speed to meet quality and cycle time requirements.

Name	AHP-500-3150		AHP-800-3150	
J1	-180° to +180°	133°/s	-180° to +180°	133°/s
J2	-42° to +68°	81°/s	-42° to +68°	67°/s
J3	-50° to +70°	81°/s	-50° to +70°	67°/s
J4	-180° to +180°	104°/s	-180° to +180°	150°/s
Number of axis	4		4	
Payload	500kg		800kg	
Reach	3150mm		3150mm	
Palletizing height	2800mm		2800mm	
Repeatability	±0.05mm		±0.05mm	
Power supply	Three-phase 380V 15KW			
Power consumption	Three-phase 380V 8-10KW (According to the running speed)			
Weight	1800kg			
Drive type	AC servo motor			
Control method	Teach pendant			
Mounting type	Floor type		Floor/mobile type	
Ambient temperature	-5°C to +40°C			

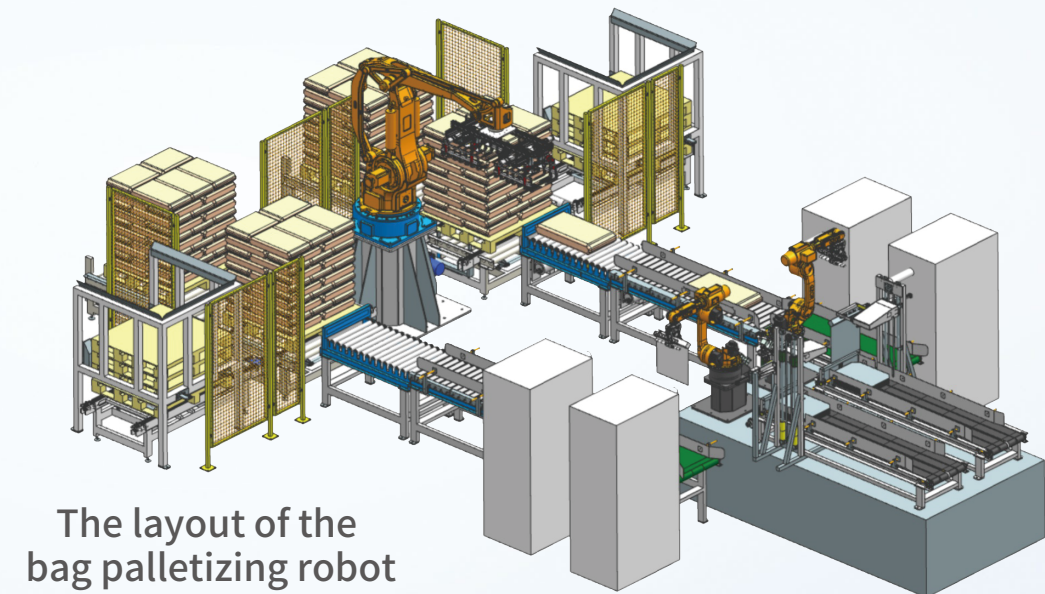




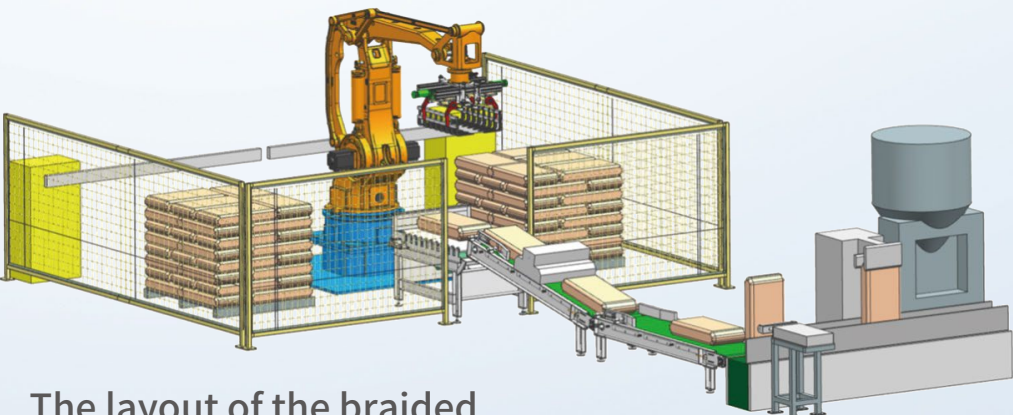
# Application Cases



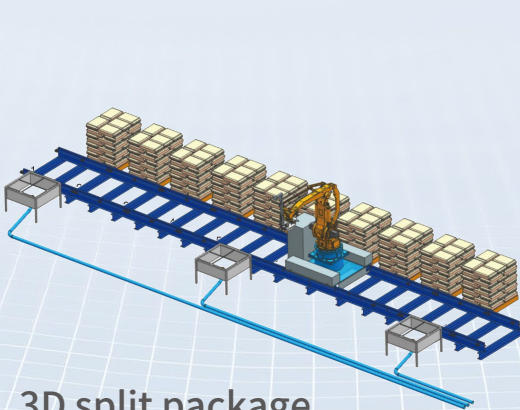
# Industry 4.0 integrated application solutions



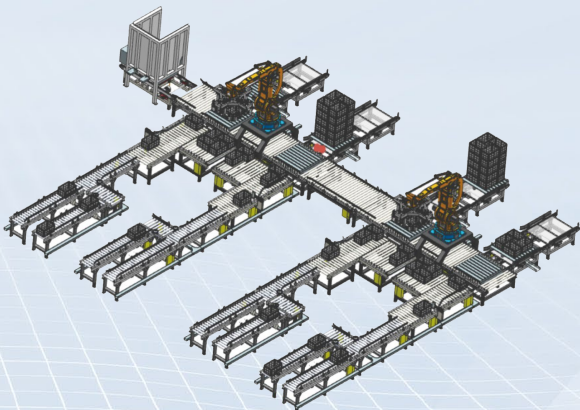
The layout of the bag palletizing robot



The layout of the braided bag palletizing robot



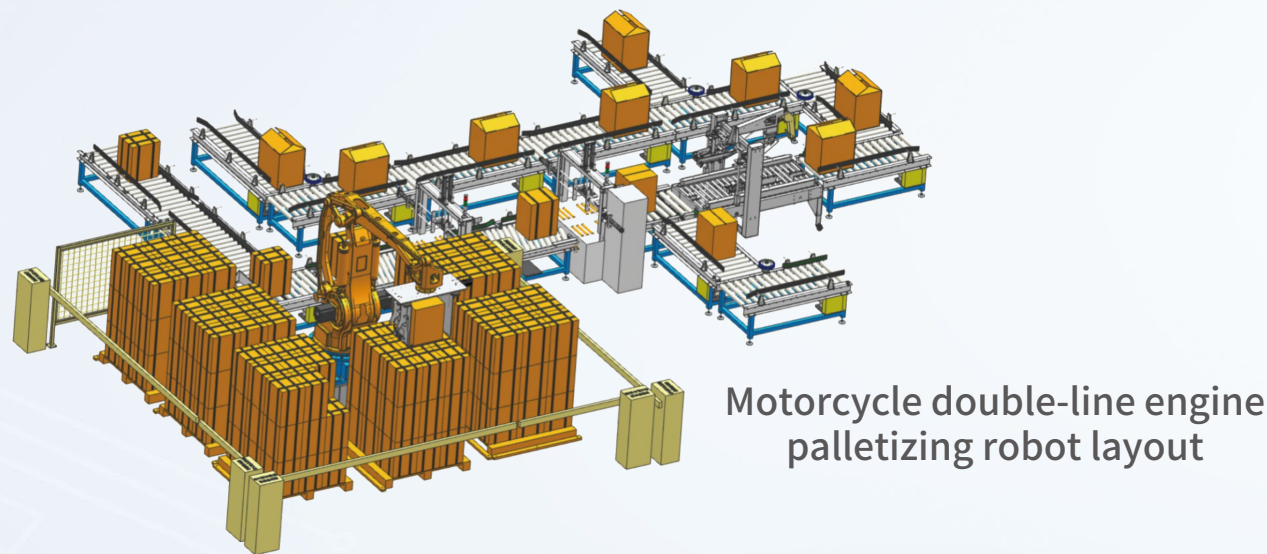
3D split package ingredient robot



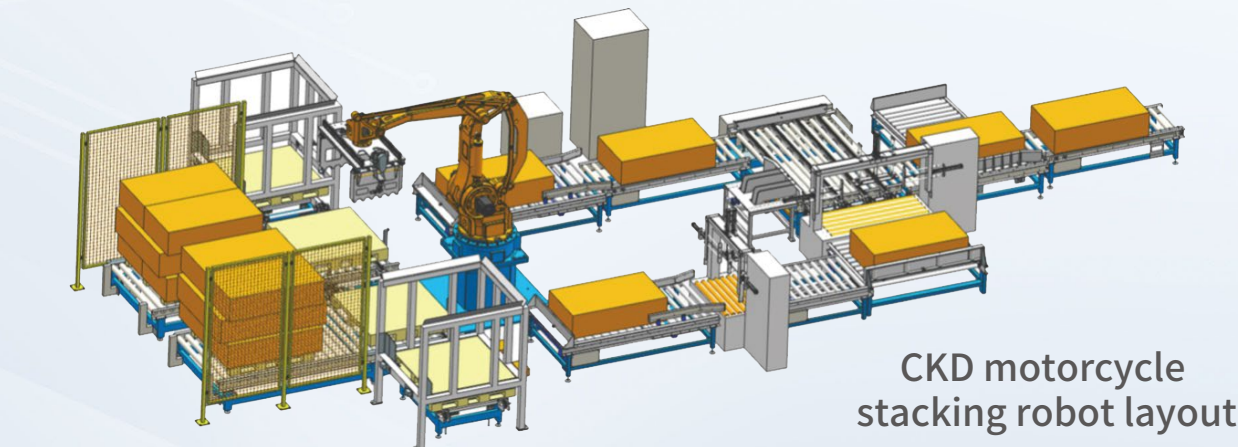
Stack board library automatically transports palletizing robot



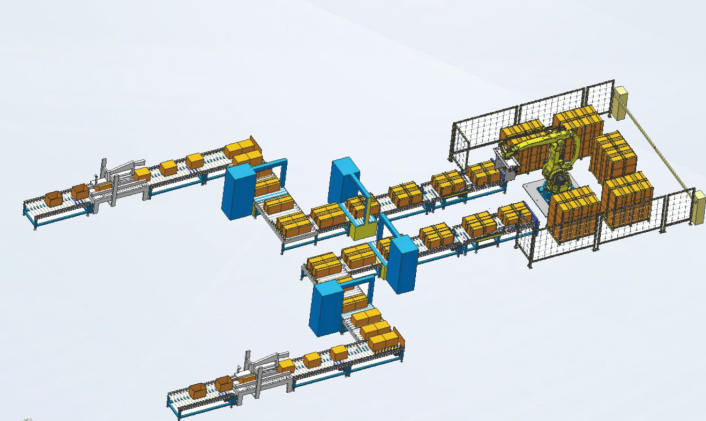
Industry 4.0 integrated application solutions



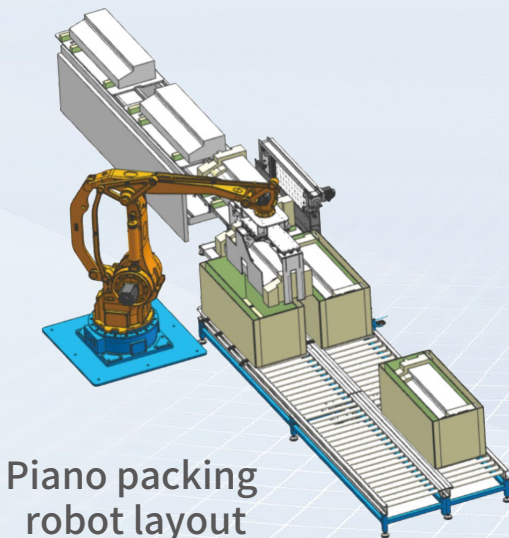
Motorcycle double-line engine palletizing robot layout



CKD motorcycle stacking robot layout

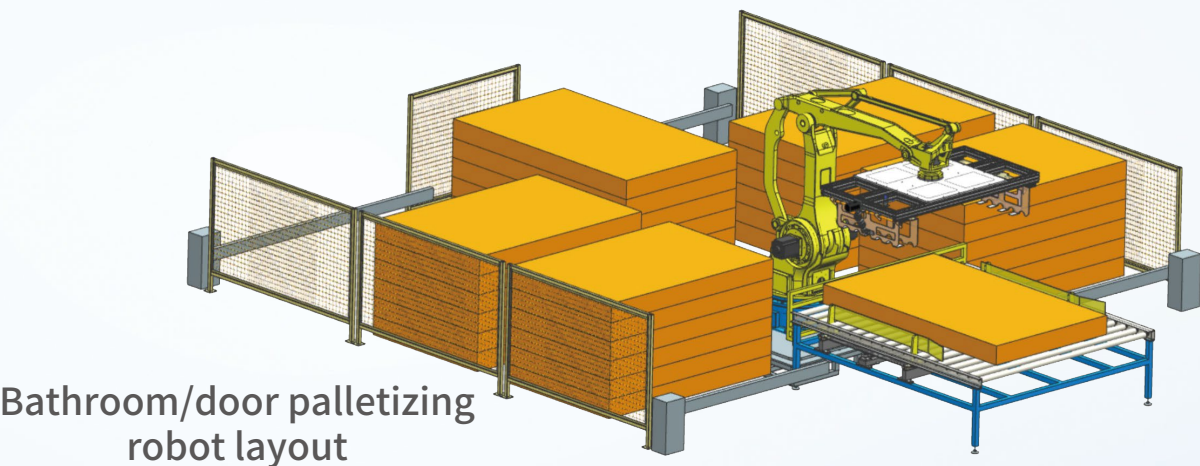


Layout of double-line Carton stacking robot

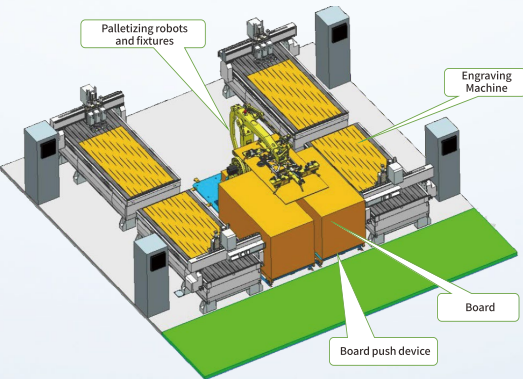


Piano packing robot layout

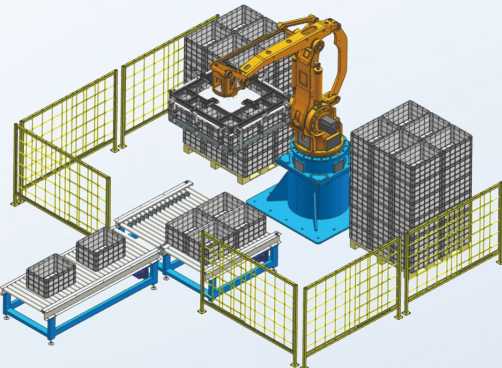
Industry 4.0 integrated application solutions



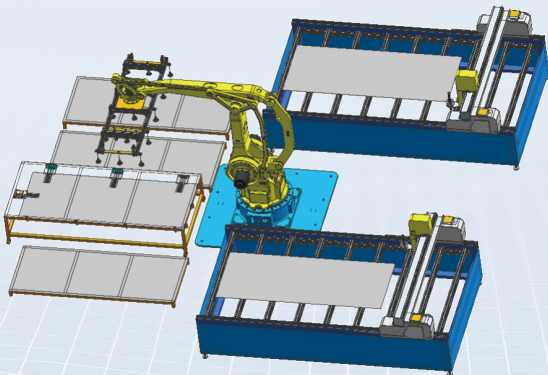
Bathroom/door palletizing robot layout



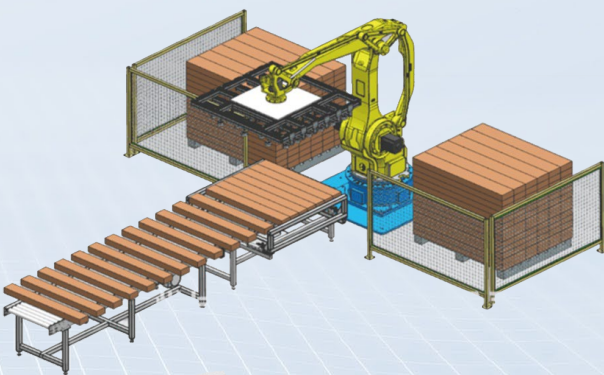
Layout of Engraving Machine Loading Robot



Frame type stacking robot layout



NC machine tool feeding and unloading robot layout



Plastic floor tile stacking robot layout