AUCTECH

AWP Series Cobot Palletizing Workstation Catalog

AUCTECH 2025-V2.1

AWP Series Palletizing Workstation

AUCTECH can deeply cultivate the application of palletizing industry, cooperate with industry partners, and provide turnkey mode palletizing workstation products for end customers relying on AUCTECH's technical reserve and R&D capability. Excellent application interaction, rapid application deployment, and short investment return period make palletizing a very light work.

AWP-20S Payload: 30kg Reach: 1480mm	**AWP-20** Payload: 25kg Reach: 1680mm	**AWP-20L** Payload: 20kg Reach: 1880mm
AWP-40S Payload: 50kg Reach: 1580mm	**AWP-40** Payload: 45kg Reach: 1780mm	**AWP-40L** Payload: 40kg Reach: 1980mm

Product features

01
Easy operation, plug-and-play, and convenient commissioning

02
Small footprint, flexible site layout

03
Compatible with different kinds of boxes and stacks

04
With memory function, flexible switching of palletizing recipes

05
Simple parameter input, free selection of palletizing patterns, and automatic alignment

06
With mechanical collision prevention, higher safety, can also be equipped with safety fence or safety light curtain.

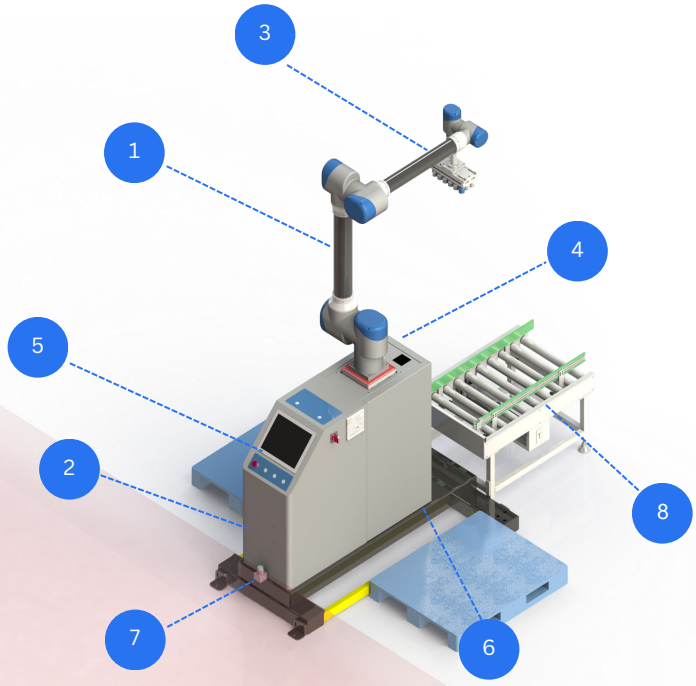
07
Automatic lifting according to the height of the palletizing, up to 2.5 meters

08
All-day operation, saving time, labor, and effort

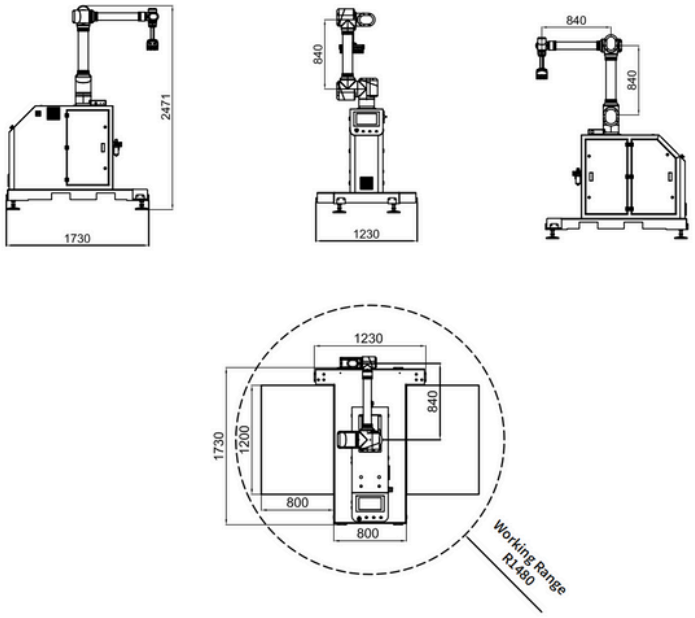
09
Widely used in various industries such as food, household paper, beverages, pharmaceuticals, daily chemicals, electronics, and appliances

Product composition

1. Collaborative robot
2. Electric controller cabinet
3. Suction cup gripper
4. Lifting column
5. Teach pendant with PalletStudio System
6. Movable base and pallet positioning system
7. LiDAR area sensor
8. Roller conveyor with box detection sensors



Product dimensions

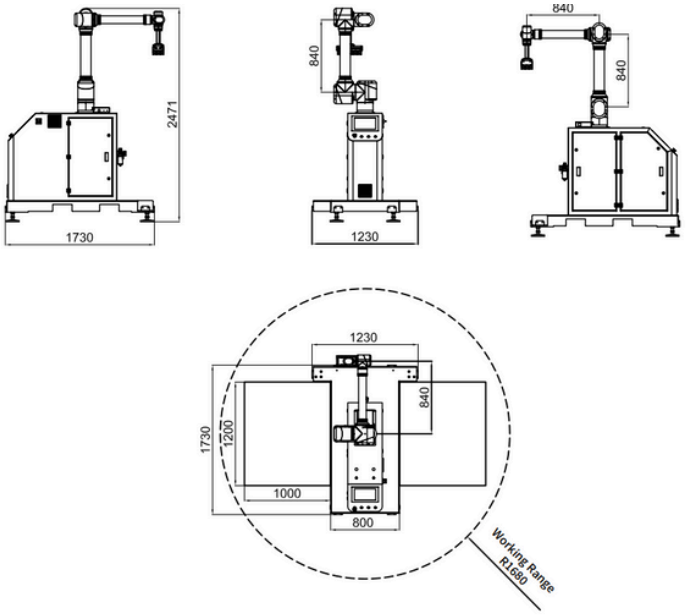


AWP-20S Dimensions (subject to actual objects)

Technical parameters

Model	AWP-20S	**System Inputs/Outputs**	32 Digital Inputs/Outputs
Weight	~600 kg	**Maximum box detection**	4 boxes
Payload	30 kg	**Safety features**	Collision detection LiDAR area sensors
Reach	1480 mm	**Number of LiDAR**	1 sensors (front)
Maximum palletizing cycle	≤8 pcs/min	**Detection range (target 10% reflectivity)**	8 m
Maximum palletizing height	≤2350 mm	**Maximum detection range**	0.05 - 25 m
Repeatability	±0.05 mm	**Measurement accuracy**	±3 cm
Maximum compatible pallet	1200*1000 mm	**Resolution**	5 mm at 3 m 10 mm at 5 m 15 mm at 8 m
Dimensions	L1230*W1730*H2471 mm	**Scanning frequency**	15 Hz
Storage box dimensions	L2200*W1450*H1900 mm	**Laser type**	905 nm, Class 1 eye-safe laser (Complies with GB7247.1-2012)
Maximum power consumption	3.5 kw		
Power supply	1-phase 220 VAC ±10 % at 50 Hz ±5 %		
Compressed air consumption	240 - 460 L/min		
Compressed air supply	0.5 - 0.7 Mpa (5-7 Bar)		
IP rating	IP54		
Operating temperature	0-50 °C		

Product dimensions

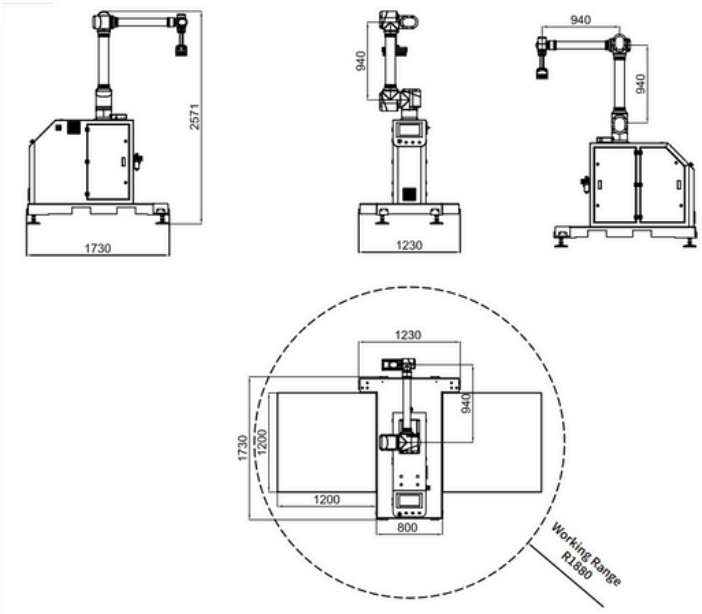


AWP-20 Dimensions (subject to actual objects)

Technical parameters

Model	AWP-20	**System Inputs/Outputs**	32 Digital Inputs/Outputs
Weight	~600 kg	**Maximum box detection**	4 boxes
Payload	25 kg	**Safety features**	Collision detection LiDAR area sensors
Reach	1680 mm	**Number of LiDAR**	1 sensors (front)
Maximum palletizing cycle	≤10 pcs/min	**Detection range (target 10% reflectivity)**	8 m
Maximum palletizing height	≤2450 mm	**Maximum detection range**	0.05 - 25 m
Repeatability	±0.05 mm	**Measurement accuracy**	±3 cm
Maximum compatible pallet	1200*1100 mm	**Resolution**	5 mm at 3 m 10 mm at 5 m 15 mm at 8 m
Dimensions	L1230*W1730*H2471 mm	**Scanning frequency**	15 Hz
Storage box dimensions	L2200*W1450*H1900 mm	**Laser type**	905 nm, Class 1 eye-safe laser (Complies with GB7247.1-2012)
Maximum power consumption	3.5 kw		
Power supply	1-phase 220 VAC ±10 % at 50 Hz ±5 %		
Compressed air consumption	240 - 460 L/min		
Compressed air supply	0.5 - 0.7 Mpa (5-7 Bar)		
IP rating	IP54		
Operating temperature	0-50 °C		

Product dimensions

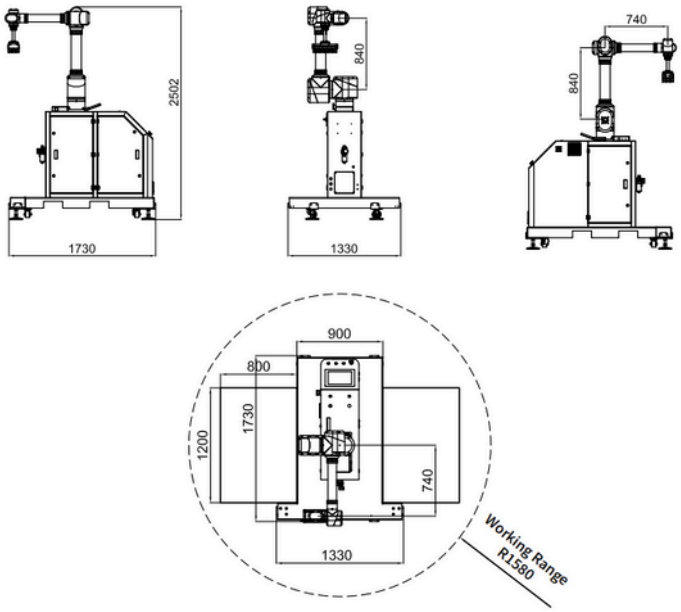


AWP-20L Dimensions (subject to actual objects)

Technical parameters

Model	AWP-20L	**System Inputs/Outputs**	32 Digital Inputs/Outputs
Weight	~600 kg	**Maximum box detection**	4 boxes
Payload	20 kg	**Safety features**	Collision detection LiDAR area sensors
Reach	1880 mm	**Number of LiDAR**	1 sensors (front)
Maximum palletizing cycle	≤12 pcs/min	**Detection range (target 10% reflectivity)**	8 m
Maximum palletizing height	≤2550 mm	**Maximum detection range**	0.05 - 25 m
Repeatability	±0.05 mm	**Measurement accuracy**	±3 cm
Maximum compatible pallet	1300*1200 mm	**Resolution**	5 mm at 3 m 10 mm at 5 m 15 mm at 8 m
Dimensions	L1230*W1730*H2471 mm	**Scanning frequency**	15 Hz
Storage box dimensions	L2200*W1450*H1900 mm	**Laser type**	905 nm, Class 1 eye-safe laser (Complies with GB7247.1-2012)
Maximum power consumption	3.5 kw		
Power supply	1-phase 220 VAC ±10 % at 50 Hz ±5 %		
Compressed air consumption	240 - 460 L/min		
Compressed air supply	0.5 - 0.7 Mpa (5-7 Bar)		
IP rating	IP54		
Operating temperature	0-50 °C		

Product dimensions

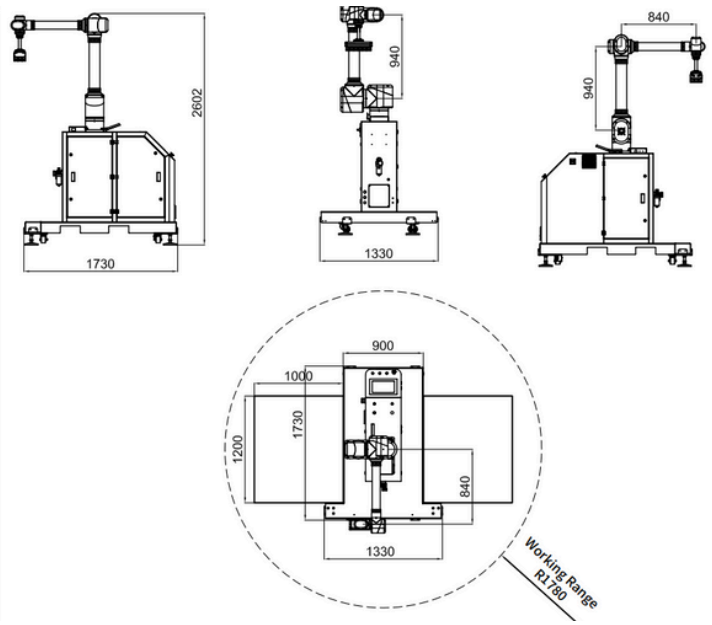


AWP-40S Dimensions (subject to actual objects)

Technical parameters

Model	AWP-40S	**System Inputs/Outputs**	32 Digital Inputs/Outputs
Weight	~650 kg	**Maximum box detection**	4 boxes
Payload	50 kg	**Safety features**	Collision detection LiDAR area sensors
Reach	1580 mm	**Number of LiDAR**	1 sensors (front)
Maximum palletizing cycle	≤6 pcs/min	**Detection range (target 10% reflectivity)**	8 m
Maximum palletizing height	≤2450 mm	**Maximum detection range**	0.05 - 25 m
Repeatability	±0.05 mm	**Measurement accuracy**	±3 cm
Maximum compatible pallet	1200*1000 mm	**Resolution**	5 mm at 3 m 10 mm at 5 m 15 mm at 8 m
Dimensions	L1330*W1730*H2502 mm	**Scanning frequency**	15 Hz
Storage box dimensions	L2250*W1450*H1900 mm	**Laser type**	905 nm, Class 1 eye-safe laser (Complies with GB7247.1-2012)
Maximum power consumption	3.5 kw		
Power supply	1-phase 220 VAC ±10 % at 50 Hz ±5 %		
Compressed air consumption	240 - 460 L/min		
Compressed air supply	0.5 - 0.7 Mpa (5-7 Bar)		
IP rating	IP54		
Operating temperature	0-50 °C		

Product dimensions

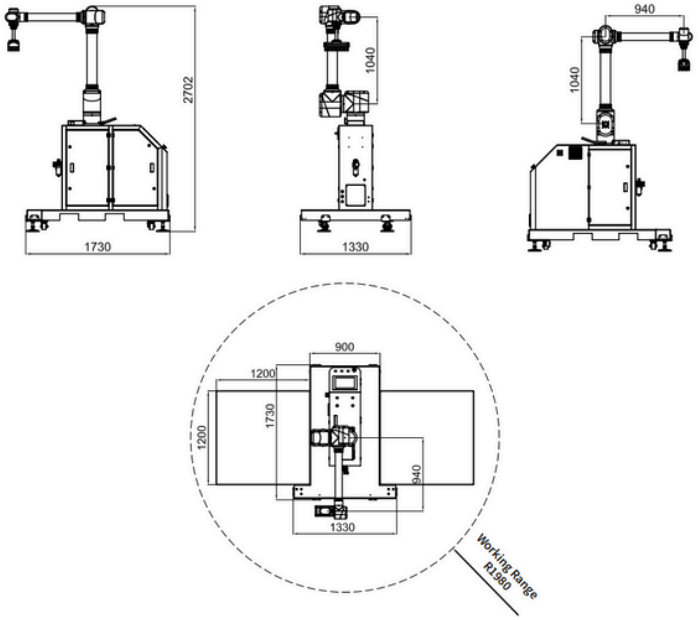


AWP-40 Dimensions (subject to actual objects)

Technical parameters

Model	AWP-40	**System Inputs/Outputs**	32 Digital Inputs/Outputs
Weight	~650 kg	**Maximum box detection**	4 boxes
Payload	45 kg	**Safety features**	Collision detection LiDAR area sensors
Reach	1780 mm	**Number of LiDAR**	1 sensors (front)
Maximum palletizing cycle	≤8 pcs/min	**Detection range (target 10% reflectivity)**	8 m
Maximum palletizing height	≤2550 mm	**Maximum detection range**	0.05 - 25 m
Repeatability	±0.05 mm	**Measurement accuracy**	±3 cm
Maximum compatible pallet	1200*1200 mm	**Resolution**	5 mm at 3 m 10 mm at 5 m 15 mm at 8 m
Dimensions	L1330*W1730*H2602 mm	**Scanning frequency**	15 Hz
Storage box dimensions	L2250*W1450*H1900 mm	**Laser type**	905 nm, Class 1 eye-safe laser (Complies with GB7247.1-2012)
Maximum power consumption	3.5 kw		
Power supply	1-phase 220 VAC ±10 % at 50 Hz ±5 %		
Compressed air consumption	240 - 460 L/min		
Compressed air supply	0.5 - 0.7 Mpa (5-7 Bar)		
IP rating	IP54		
Operating temperature	0-50 °C		

Product dimensions



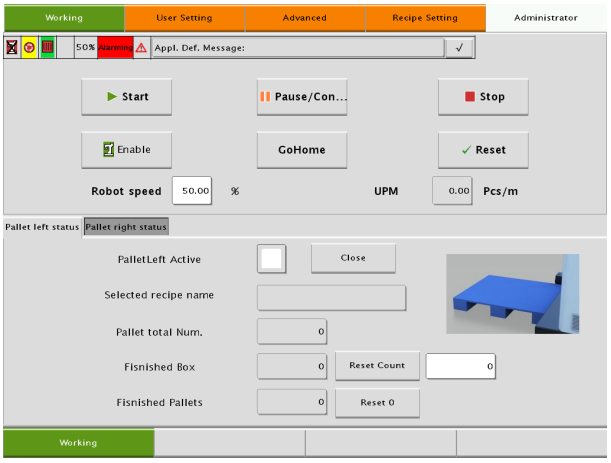
AWP-40L Dimensions (subject to actual objects)

Technical parameters

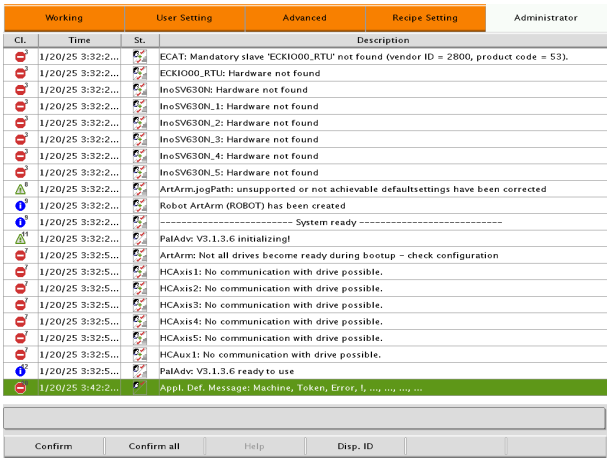
Model	AWP-40L	**System Inputs/Outputs**	32 Digital Inputs/Outputs
Weight	~650 kg	**Maximum box detection**	4 boxes
Payload	40 kg	**Safety features**	Collision detection LiDAR area sensors
Reach	1980 mm	**Number of LiDAR**	1 sensors (front)
Maximum palletizing cycle	≤10 pcs/min	**Detection range (target 10% reflectivity)**	8 m
Maximum palletizing height	≤2650 mm	**Maximum detection range**	0.05 - 25 m
Repeatability	±0.05 mm	**Measurement accuracy**	±3 cm
Maximum compatible pallet	1400*1200 mm	**Resolution**	5 mm at 3 m 10 mm at 5 m 15 mm at 8 m
Dimensions	L1330*W1730*H2702 mm	**Scanning frequency**	15 Hz
Storage box dimensions	L2250*W1450*H1900 mm	**Laser type**	905 nm, Class 1 eye-safe laser (Complies with GB7247.1-2012)
Maximum power consumption	3.5 kw		
Power supply	1-phase 220 VAC ±10 % at 50 Hz ±5 %		
Compressed air consumption	240 - 460 L/min		
Compressed air supply	0.5 - 0.7 Mpa (5-7 Bar)		
IP rating	IP54		
Operating temperature	0-50 °C		

AWP Series Palletizing Workstation

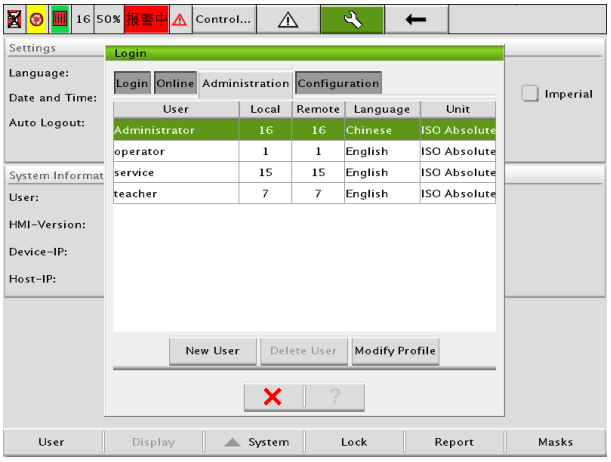
Operator Interface



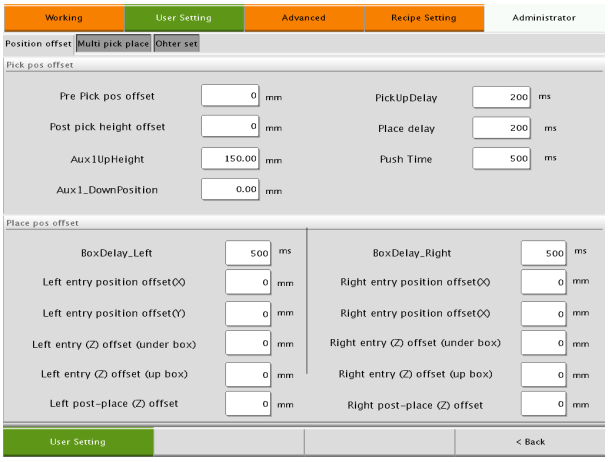
Main Page



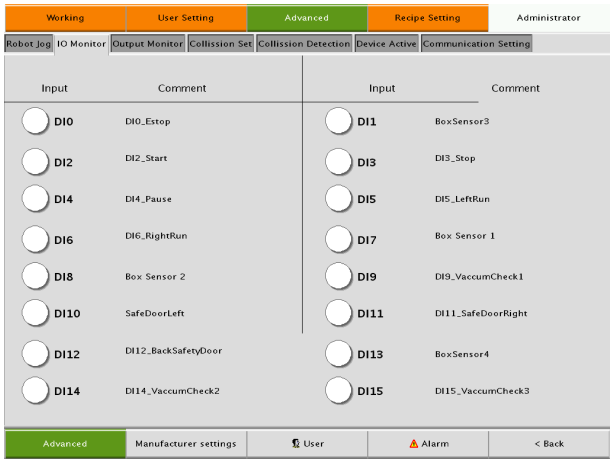
Alarm Page



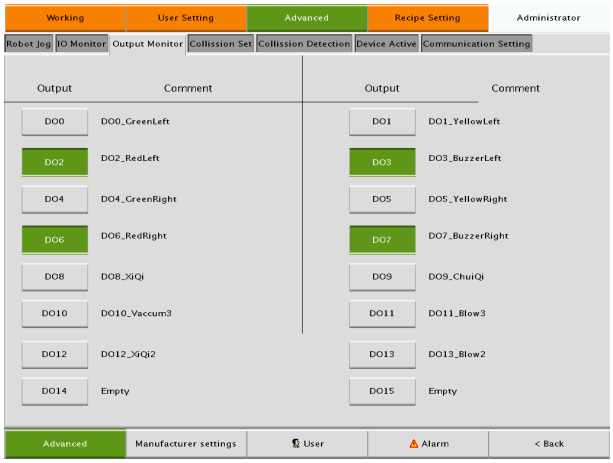
User Control Permissions



Robot Pick-and-place
Compensation and Delay Settings



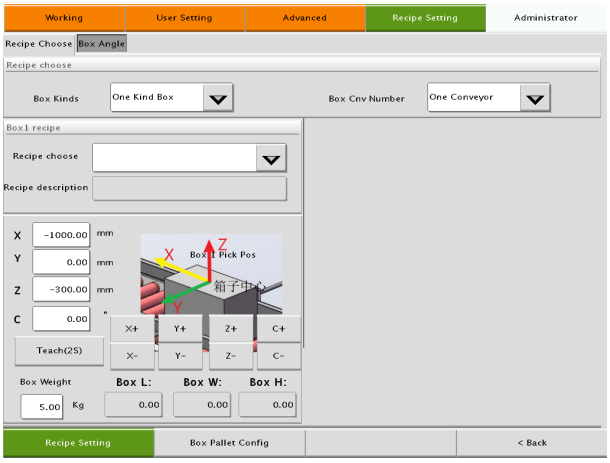
Robot IO Input Monitoring



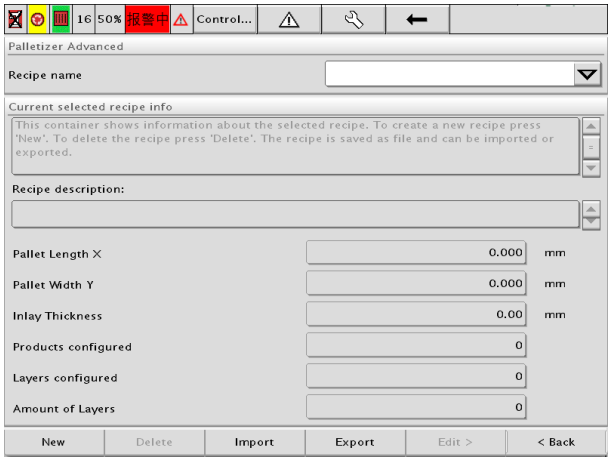
Robot IO Output Monitoring

AWP Series Palletizing Workstation

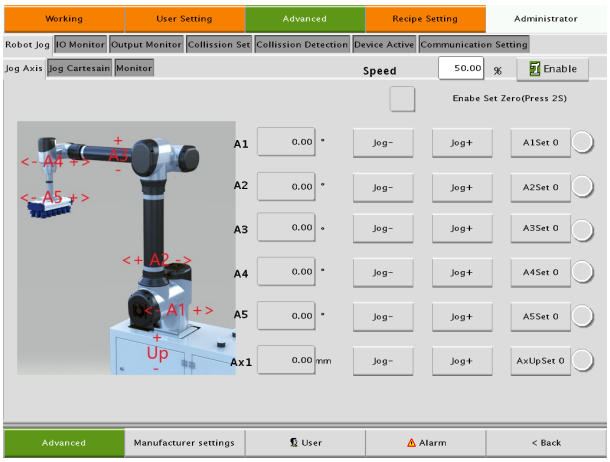
Operator Interface



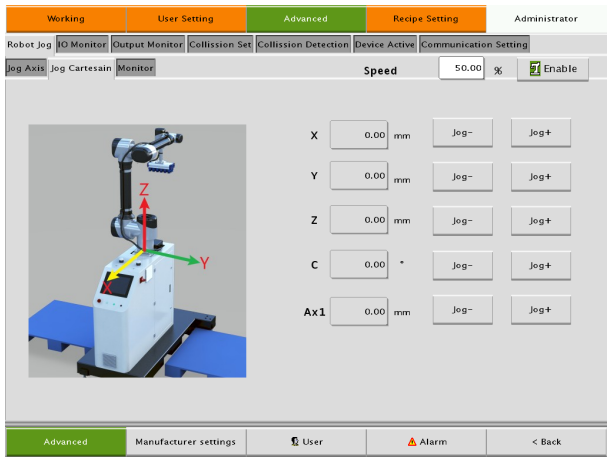
Carton Grabbing Configuration



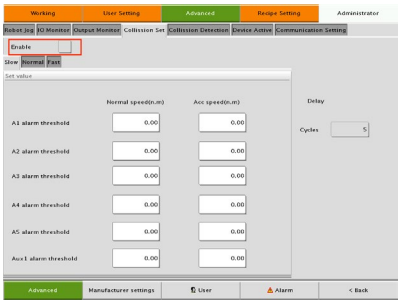
Carton Stacking Configuration



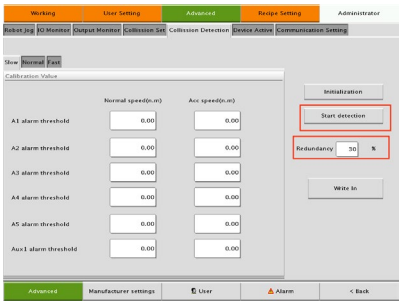
Robot Single-axis Jog Page



Robot Jog Button



Anti-collision Settings



Anti-collision Detection

Manufacturer's Pallet Parameter Settings

AUCTECH Makes Human Life
and Manufacturing More Convenient

AUCTECH Robotics

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