



AWP Series Cobot Palletizing Workstation Catalog

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

Notes:

1. Size limit of a single carton: $\leq 600\text{mm} \times 650\text{mm}$ (from top view)
2. If the weight of a single carton exceeds 30kg, please customize the suction system.



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 schemes.

05

Simple parameter input, free selection of stacking patterns, and automatic alignment.

06

With mechanical collision prevention, higher safety, can also be equipped with guardrail or light curtains.

07

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

08

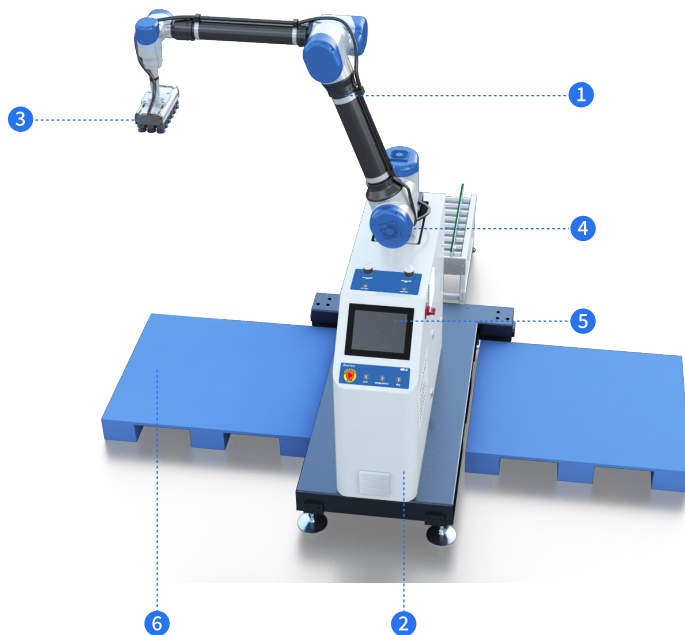
All-day operation, saving time, labor, and effort.

09

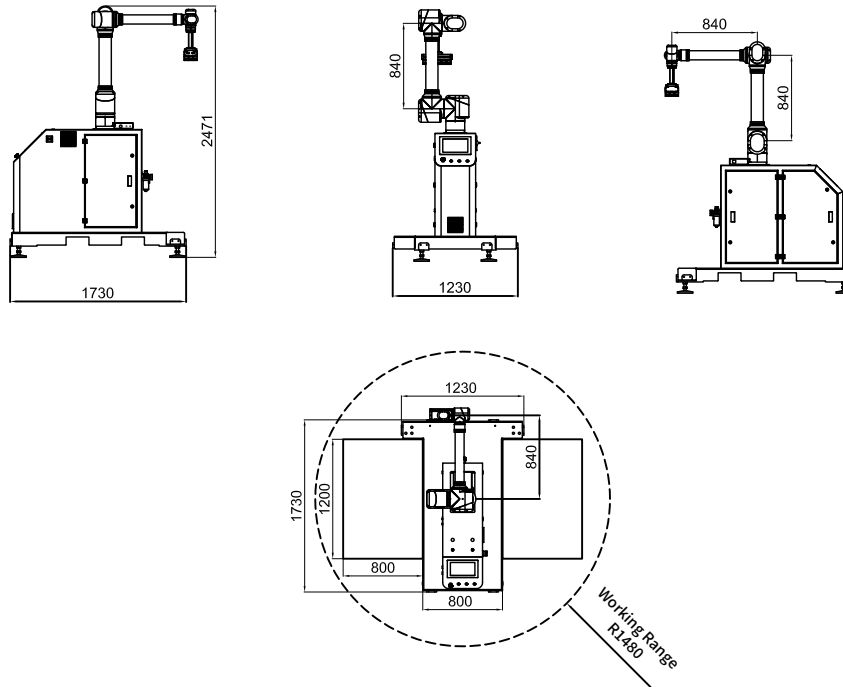
Widely used in various industries such as food, household paper, beverages, pharmaceuticals, daily chemicals, electronics, and appliances.

Product Composition

- 1 Collaborative Robot
- 2 Electric Controller Cabinet
- 3 End Suction System such as Vacuum Gripper
- 4 Lifting Column
- 5 Teach Pendant With PalletStudio System
- 6 Pallet Positioning System



Product Dimensions



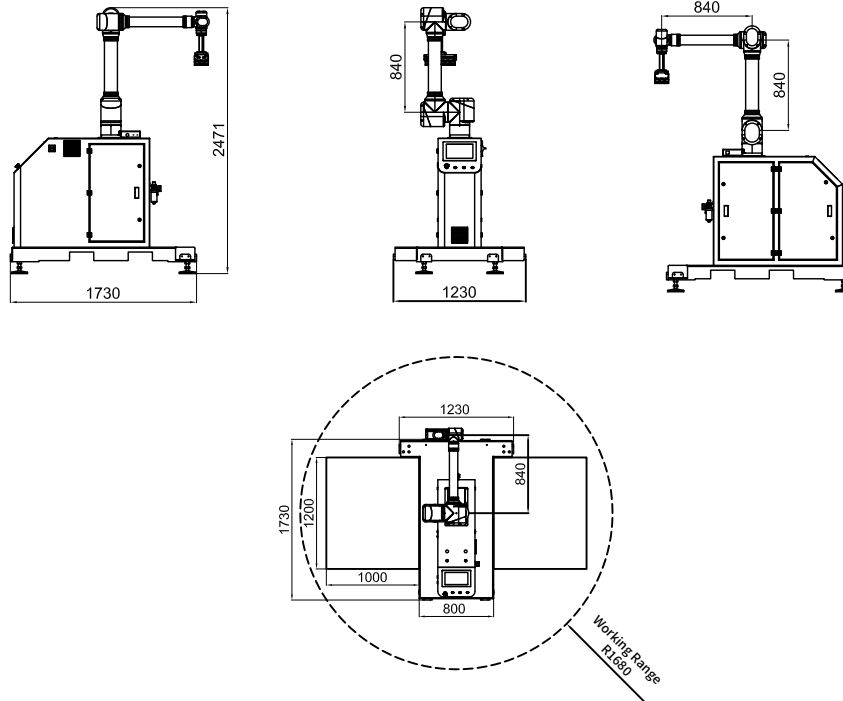
AWP-20S Dimensions (subject to actual objects)

Technical Parameters

Model	AWP-20S
Weight	About 600kg
Payload*	30kg
Suction cup weight	10kg
Maximum carton weight	20kg
Reach	1480mm
Maximum palletizing cycle	≅8pcs/min
Maximum palletizing height	≅2350mm
Repeat positioning accuracy	±0.05mm
Pallet placement form	Manual, one left and one right
Maximum compatible pallet	1200mm*1000mm
Dimensions	L1230mm*W1730mm*H2471mm
Dimensions of wooden boxes	L2200mm*W1450mm*H1900mm
Maximum power	3.5KW
Reference gas consumption	240-460L/min
Power supply requirements	AC220V±10%, 50Hz±5%
Gas supply requirements	0.5~0.7Mpa
Communication method	EtherCAT interface, expansion IO
IP level	Robot arm IP53/Cabinet IP24
Ambient temperature	0-50°C
Noise	<80dB
Main color	Blue gray

*Payload= Suction cup weight + Maximum carton weight

Product Dimensions



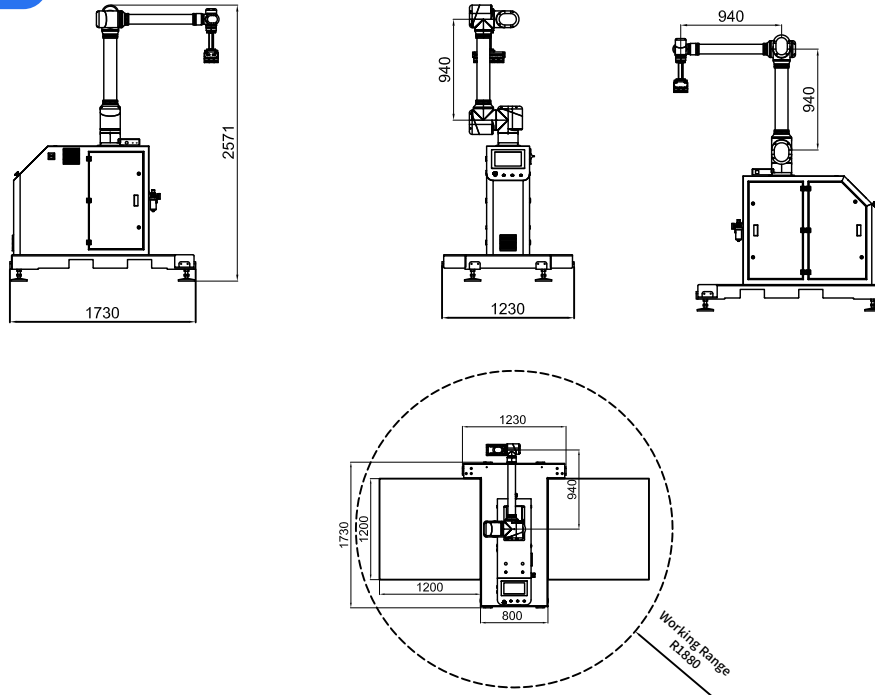
AWP-20 Dimensions (subject to actual objects)

Technical Parameters

Model	AWP-20
Weight	About 600kg
Payload*	25kg
Suction cup weight	7kg
Maximum carton weight	18kg
Reach	1680mm
Maximum palletizing cycle	≦ 10pcs/min
Maximum palletizing height	≦ 2450mm
Repeat positioning accuracy	±0.05mm
Pallet placement form	Manual, one left and one right
Maximum compatible pallet	1200mm*1100mm
Dimensions	L1230mm*W1730mm*H2471mm
Dimensions of wooden boxes	L2200mm*W1450mm*H1900mm
Maximum power	3.5KW
Reference gas consumption	240-460L/min
Power supply requirements	AC220V±10%, 50Hz±5%
Gas supply requirements	0.5~0.7Mpa
Communication method	EtherCAT interface, expansion IO
IP level	Robot arm IP53/Cabinet IP24
Ambient temperature	0-50°C
Noise	<80dB
Main color	Blue gray

*Payload= Suction cup weight + Maximum carton weight

Product Dimensions



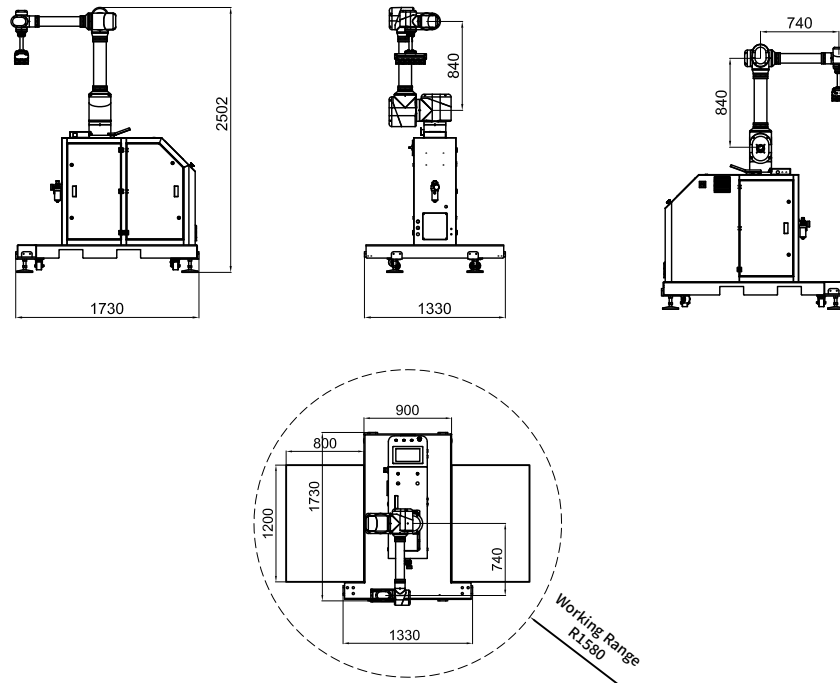
AWP-20L Dimensions (subject to actual objects)

Technical Parameters

Model	AWP-20L
Weight	About 600kg
Payload*	20kg
Suction cup weight	7kg
Maximum carton weight	13kg
Reach	1880mm
Maximum palletizing cycle	≅ 12pcs/min
Maximum palletizing height	≅ 2550mm
Repeat positioning accuracy	±0.05mm
Pallet placement form	Manual, one left and one right
Maximum compatible pallet	1300mm*1200mm
Dimensions	L1230mm*W1730mm*H2571mm
Dimensions of wooden boxes	L2200mm*W1450mm*H1900mm
Maximum power	3.5KW
Reference gas consumption	240-460L/min
Power supply requirements	AC220V±10%, 50Hz±5%
Gas supply requirements	0.5~0.7Mpa
Communication method	EtherCAT interface, expansion IO
IP level	Robot arm IP53/Cabinet IP24
Ambient temperature	0-50°C
Noise	<80dB
Main color	Blue gray

*Payload= Suction cup weight + Maximum carton weight

Product Dimensions



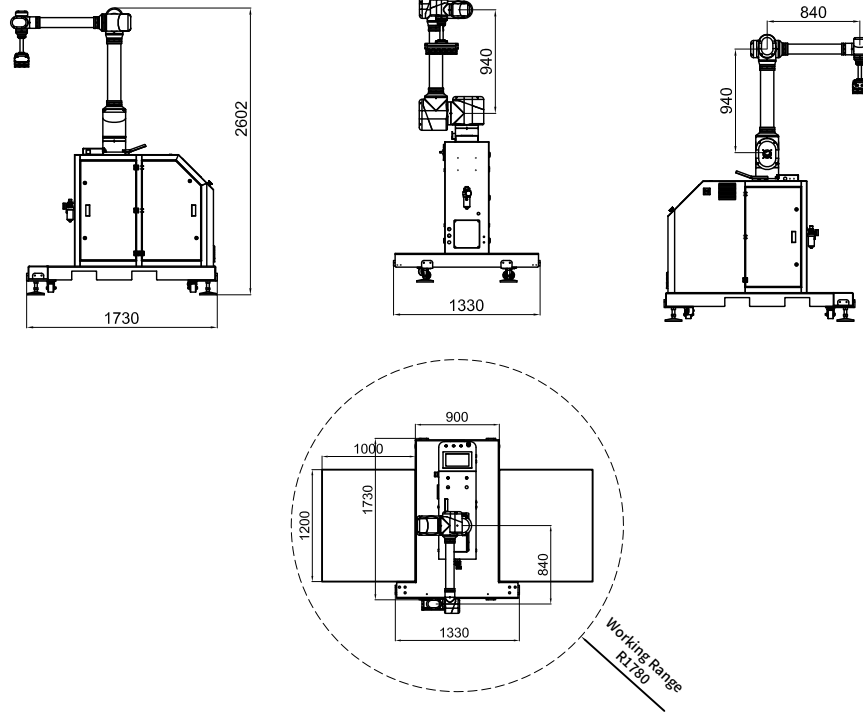
AWP-40S Dimensions (subject to actual objects)

Technical Parameters

Model	AWP-40S
Weight	About 650kg
Payload*	50kg
Suction cup weight	12kg
Maximum carton weight	38kg
Reach	1580mm
Maximum palletizing cycle	≤6pcs/min
Maximum palletizing height	≤2450mm
Repeat positioning accuracy	±0.05mm
Pallet placement form	Manual, one left and one right
Maximum compatible pallet	1200mm*1000mm
Dimensions	L1330mm*W1730mm*H2502mm
Dimensions of wooden boxes	L2250mm*W1450mm*H1900mm
Maximum power	3.5KW
Reference gas consumption	240-460L/min
Power supply requirements	AC220V±10%, 50Hz±5%
Gas supply requirements	0.5~0.7Mpa
Communication method	EtherCAT interface, expansion IO
IP level	Robot arm IP53/Cabinet IP24
Ambient temperature	0-50°C
Noise	<80dB
Main color	Blue gray

*Payload= Suction cup weight + Maximum carton weight

Product Dimensions



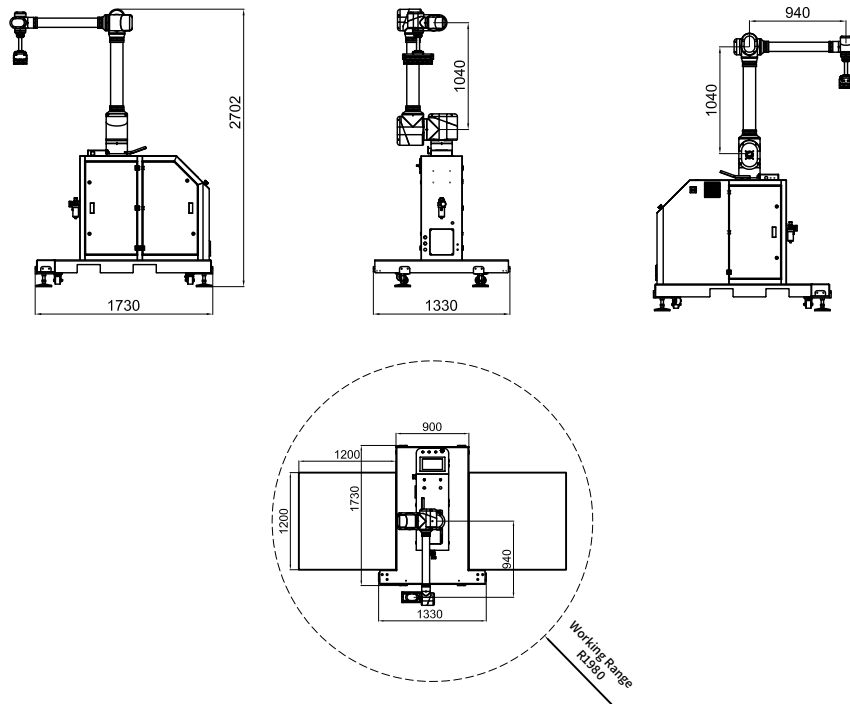
AWP-40 Dimensions (subject to actual objects)

Technical Parameters

Model	AWP-40
Weight	About 650kg
Payload*	45kg
Suction cup weight	12kg
Maximum carton weight	33kg
Reach	1780mm
Maximum palletizing cycle	≦ 8pcs/min
Maximum palletizing height	≦ 2550mm
Repeat positioning accuracy	±0.05mm
Pallet placement form	Manual, one left and one right
Maximum compatible pallet	1200mm*1200mm
Dimensions	L1330mm*W1730mm*H2602mm
Dimensions of wooden boxes	L2250mm*W1450mm*H1900mm
Maximum power	3.5KW
Reference gas consumption	240-460L/min
Power supply requirements	AC220V±10%, 50Hz±5%
Gas supply requirements	0.5~0.7Mpa
Communication method	EtherCAT interface, expansion IO
IP level	Robot arm IP53/Cabinet IP24
Ambient temperature	0-50°C
Noise	<80dB
Main color	Blue gray

*Payload= Suction cup weight + Maximum carton weight

Product Dimensions



AWP-40L Dimensions (subject to actual objects)

Technical Parameters

Model	AWP-40L
Weight	About 650kg
Payload*	40kg
Suction cup weight	10kg
Maximum carton weight	30kg
Reach	1980mm
Maximum palletizing cycle	≅ 10pcs/min
Maximum palletizing height	≅ 2650mm
Repeat positioning accuracy	±0.05mm
Pallet placement form	Manual, one left and one right
Maximum compatible pallet	1400mm*1200mm
Dimensions	L1330mm*W1730mm*H2702mm
Dimensions of wooden boxes	L2250mm*W1450mm*H1900mm
Maximum power	3.5KW
Reference gas consumption	240-460L/min
Power supply requirements	AC220V±10%, 50Hz±5%
Gas supply requirements	0.5~0.7Mpa
Communication method	EtherCAT interface, expansion IO
IP level	Robot arm IP53/Cabinet IP24
Ambient temperature	0-50°C
Noise	<80dB
Main color	Blue gray

*Payload= Suction cup weight + Maximum carton weight

AWP Series Palletizing Workstation

Operator Interface

Working User Setting Advanced Recipe Setting Administrator

50% **Warning** Appl. Def. Message: ✓

Start **Pause/Con...** **Stop**

Enable **GoHome** **Reset**

Robot speed 50.00 % UPM 0.00 Pcs/m

Pallet left status **Pallet right status**

PalletLeft Active ☐ **Close**

Selected recipe name

Pallet total Num. 0

Finished Box 0 **Reset Count** 0

Finished Pallets 0 **Reset 0**

Working

Main Page

Working	User Setting	Advanced	Recipe Setting	Administrator
Cl.	Time	St.	Description	
1/20/25 3:32:2...			ECAT: Mandatory slave 'ECKIO00_RTU' not found (vendor ID = 2800, product code = 53).	
1/20/25 3:32:2...			ECKIO00_RTU: Hardware not found	
1/20/25 3:32:2...			InoSV630N: Hardware not found	
1/20/25 3:32:2...			InoSV630N_1: Hardware not found	
1/20/25 3:32:2...			InoSV630N_2: Hardware not found	
1/20/25 3:32:2...			InoSV630N_3: Hardware not found	
1/20/25 3:32:2...			InoSV630N_4: Hardware not found	
1/20/25 3:32:2...			InoSV630N_5: Hardware not found	
1/20/25 3:32:2...			ArtArm.jogPath: unsupported or not achievable default settings have been corrected	
1/20/25 3:32:2...			Robot ArtArm (ROBOT) has been created	
1/20/25 3:32:2...			----- System ready -----	
1/20/25 3:32:2...			PalAdv: V3.1.3.6 initializing!	
1/20/25 3:32:5...			ArtArm: Not all drives become ready during bootup - check configuration	
1/20/25 3:32:5...			HCAxis1: No communication with drive possible.	
1/20/25 3:32:5...			HCAxis2: No communication with drive possible.	
1/20/25 3:32:5...			HCAxis3: No communication with drive possible.	
1/20/25 3:32:5...			HCAxis4: No communication with drive possible.	
1/20/25 3:32:5...			HCAxis5: No communication with drive possible.	
1/20/25 3:32:5...			HCAux1: No communication with drive possible.	
1/20/25 3:42:2...			PalAdv: V3.1.3.6 ready to use	
1/20/25 3:42:2...			Appl. Def. Message: Machine, Token, Error, I, ...	

Confirm Confirm all Help Disp. ID

Alarm Page

Settings

Language: **Login** **Online** **Administration** **Configuration**

Date and Time: **User** **Local** **Remote** **Language** **Unit**

Auto Logout: **Administrator** 16 16 Chinese ISO Absolute

System Information: **operator** 1 1 English ISO Absolute

User: **service** 15 15 English ISO Absolute

HMI-Version: **teacher** 7 7 English ISO Absolute

Device-IP: **New User** **Delete User** **Modify Profile**

Host-IP: **User** **Display** **System** **Lock** **Report** **Masks**

User Control Permissions

Working User Setting Advanced Recipe Setting Administrator

Position offset **Multi pick place** **Other set**

Pick pos offset

Pre Pick pos offset 0 mm PickUpDelay 200 ms

Post pick height offset 0 mm Place delay 200 ms

Aux1UpHeight 150.00 mm Push Time 500 ms

Aux1_DownPosition 0.00 mm

Place pos offset

BoxDelay_Left 500 ms BoxDelay_Right 500 ms

Left entry position offset(O) 0 mm Right entry position offset(O) 0 mm

Left entry position offset(O) 0 mm Right entry position offset(O) 0 mm



Left entry (Z) offset (under box) 0 mm Right entry (Z) offset (under box) 0 mm

Left entry (Z) offset (up box) 0 mm Right entry (Z) offset (up box) 0 mm



Left post-place (Z) offset 0 mm Right post-place (Z) offset 0 mm

User Setting < Back

Robot Pick-and-place Compensation and Delay Settings

Working		User Setting		Advanced		Recipe Setting		Administrator	
Robot Jog	IO Monitor	Output Monitor	Collision Set	Collision Detection	Device Active	Communication Setting			
Input				Comment					
<input type="radio"/> DI0				DI0_Estop					
<input type="radio"/> DI2				DI2_Start					
<input type="radio"/> DI4				DI4_Pause					
<input type="radio"/> DI6				DI6_RightRun					
<input type="radio"/> DI8				Box Sensor 2					
<input type="radio"/> DI10				SafeDoorLeft					
<input type="radio"/> DI12				DI12_BackSafetyDoor					
<input type="radio"/> DI14				DI14_VaccumCheck2					
<input type="radio"/> DI1				BoxSensor3					
<input type="radio"/> DI3				DI3_Stop					
<input type="radio"/> DI5				DI5_LeftRun					
<input type="radio"/> DI7				Box Sensor 1					
<input type="radio"/> DI9				DI9_VaccumCheck1					
<input type="radio"/> DI11				DI11_SafeDoorRight					
<input type="radio"/> DI13				BoxSensor4					
<input type="radio"/> DI15				DI15_VaccumCheck3					
Advanced		Manufacturer settings		 User		 Alarm		< Back	

Robot IO Input Monitoring

Working		User Setting		Advanced		Recipe Setting		Administrator			
Robot Jog	IO Monitor	Output Monitor	Collision Set	Collision Detection	Device Active	Communication Setting					
Output			Comment			Output			Comment		
<div>DO0</div>			DO0_GreenLeft			<div>DO1</div>			DO1_YellowLeft		
<div>DO2</div>			DO2_RedLeft			<div>DO3</div>			DO3_BuzzerLeft		
<div>DO4</div>			DO4_GreenRight			<div>DO5</div>			DO5_YellowRight		
<div>DO6</div>			DO6_RedRight			<div>DO7</div>			DO7_BuzzerRight		
<div>DO8</div>			DO8_XQ1			<div>DO9</div>			DO9_ChuiQi		
<div>DO10</div>			DO10_Vaccum3			<div>DO11</div>			DO11_Blow3		
<div>DO12</div>			DO12_XQ2			<div>DO13</div>			DO13_Blow2		
<div>DO14</div>			Empty			<div>DO15</div>			Empty		
Advanced		Manufacturer settings			 User		 Alarm		< Back		

Robot IO Output Monitoring

AWP Series Palletizing Workstation

Operator Interface

Working User Setting Advanced Recipe Setting Administrator

Recipe Choose **Box Angle**

Recipe choose

Box Kinds **One Kind Box** Box Cnv Number **One Conveyor**

Box1 recipe

Recipe choose

Recipe description

X **-1000.00** mm Y **0.00** mm Z **-300.00** mm C **0.00**

Box 1 Pick Pos

箱子中心

X+ X- Y+ Y- Z+ Z- C+ C-

Teach(2S)

Box Weight **5.00** Kg Box L: **0.00** Box W: **0.00** Box H: **0.00**

Recipe Setting Box Pallet Config < Back

Carton Grabbing Configuration

16 50% 报警中 Control...

Palletizer Advanced

Recipe name

Current selected recipe info

This container shows information about the selected recipe. To create a new recipe press 'New'. To delete the recipe press 'Delete'. The recipe is saved as file and can be imported or exported.

Recipe description:

Pallet Length X **0.000** mm

Pallet Width Y **0.000** mm

Inlay Thickness **0.00** mm

Products configured **0**

Layers configured **0**

Amount of Layers **0**

New Delete Import Export Edit > < Back

Carton Stacking Configuration

Working User Setting Advanced Recipe Setting Administrator

Robot Jog JO Monitor Output Monitor Collision Set Collision Detection Device Active Communication Setting

Jog Axis **Jog Cartesian Monitor** Speed **50.00** % ☒ Enable

Enable Set Zero(Press 2S)

A1 0.00 * Jog- Jog+ A1Set 0

A2 0.00 * Jog- Jog+ A2Set 0

A3 0.00 * Jog- Jog+ A3Set 0

A4 0.00 * Jog- Jog+ A4Set 0

A5 0.00 * Jog- Jog+ A5Set 0

Ax1 0.00 mm Jog- Jog+ AxUpSet 0

Advanced Manufacturer settings User Alarm < Back

Robot Single-axis Jog Page

Working User Setting Advanced Recipe Setting Administrator

Robot Jog JO Monitor Output Monitor Collision Set Collision Detection Device Active Communication Setting

Jog Axis **Jog Cartesian Monitor** Speed **50.00** % ☒ Enable

X 0.00 mm Jog- Jog+

Y 0.00 mm Jog- Jog+

Z 0.00 mm Jog- Jog+

C 0.00 * Jog- Jog+

Ax1 0.00 mm Jog- Jog+

Advanced Manufacturer settings User Alarm < Back

Robot Jog Button

Working User Setting Advanced Recipe Setting Administrator

Robot Jog JO Monitor Output Monitor Collision Set Collision Detection Device Active Communication Setting

Enable

Show Normal Page

Set value

Normal speed(m/s) Acc speed(m/s) Delay

A1 alarm threshold 0.00 0.00

A2 alarm threshold 0.00 0.00

A3 alarm threshold 0.00 0.00

A4 alarm threshold 0.00 0.00

A5 alarm threshold 0.00 0.00

Aux1 alarm threshold 0.00 0.00

Cycle 5

Advanced Manufacturer settings User Alarm < Back

Anti-collision Settings

Working User Setting Advanced Recipe Setting Administrator

Robot Jog JO Monitor Output Monitor Collision Set Collision Detection Device Active Communication Setting

Size **Normal Fast**

Calibration Value

Normal speed(m/s) Acc speed(m/s)

A1 alarm threshold 0.00 0.00

A2 alarm threshold 0.00 0.00

A3 alarm threshold 0.00 0.00

A4 alarm threshold 0.00 0.00

A5 alarm threshold 0.00 0.00

Aux1 alarm threshold 0.00 0.00

Redundancy **30** %

Initiation Start detection Write In

Advanced Manufacturer settings User Alarm < Back

Anti-collision Detection

Working User Setting Advanced Recipe Setting Administrator

Stacking plate coordinate system Advanced Parameter Other setting

RobotSpeedLimit **100.00** % PalletTest_Left PalletTest_Right

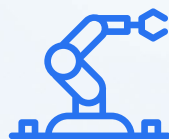
X **-595.00** mm Y **-400.00** mm Z **-1010.00** mm

Weight of stacker **3.55** Kg

Left height offset **-100.00** mm Right height offset **-100.00** mm

Advanced Manufacturer settings User Alarm < Back

Manufacturer's Pallet Parameter Settings



AUCTECH Makes Human Life
and Manufacturing More Convenient

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