## deceler



# 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-40S

Payload: 50kg Reach: 1580mm

#### **AWP-20**

Payload: 25kg Reach: 1680mm

#### **AWP-40**

Payload: 45kg Reach: 1780mm

#### AWP-20L

Payload: 20kg Reach: 1880mm

#### AWP-40L

Payload: 40kg Reach: 1980mm

#### Notes:

- 1. Size limit of a single carton: ≤600mm\*650mm (from top view)
- 2. If the weight of a single carton exceeds 30kg, please customize the suction system.



#### **Product Features**

## 

**②** 04

**O** 07

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

With memory function, flexible

switching of palletizing schemes.

Automatic lifting according to the

height of the palletizing, up to 2.5

## **3** 02

Small footprint, flexible site layout.

#### **3** 03

Compatible with different kinds of boxes and stacks.

## (F<sub>x</sub>) 05

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

#### <u>(a)</u> 08

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

## (<del>©</del>) 06

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

## <u>^</u> 09

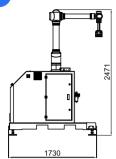
Widely used in various industries such as food, household paper, beverages, pharmaceuticals, daily chemicals, electronics, and appliances.

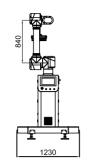
#### **Product Composition**

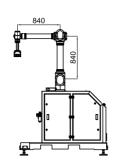
- Collaborative Robot
- 2 Electric Controller Cabinet
- 3 End Suction System such as Vacuum Gripper
- 4 Lifting Column
- 5 Teach Pendant With PalletStudio System
- 6 Pallet Positioning System

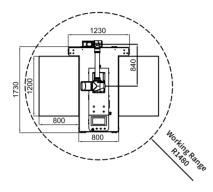


## Product Dimensions







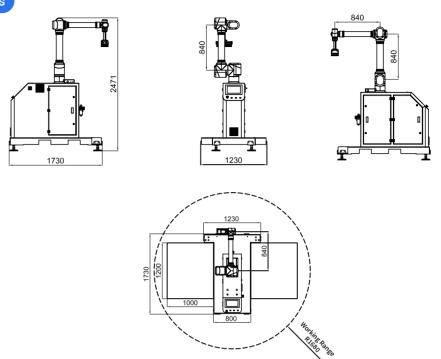


AWP-20S Dimensions (subject to actual objects)

#### Technical Parameters

Payload*  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  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	Model	AWP-20S
Suction cup weight  Maximum carton weight  Reach  Maximum palletizing cycle  Maximum palletizing height  Repeat positioning accuracy  Pallet placement form  Maximum compatible pallet  Dimensions  L1230mm*U1730mm*H2471mm  Dimensions of wooden boxes  L2200mm*W1450mm*H1900mm  Maximum power  3.5KW  Reference gas consumption  Power supply requirements  Communication method  EtherCAT interface, expansion IO  IP level  Ambient temperature  Noise  88pcs/min  20kg  88pcs/min  4800mm  4800mm  490.5mm  40.05mm	Weight	About 600kg
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       0.5~0.7Mpa         Communication method       EtherCAT interface, expansion IO         IP level       Robot arm IP53/Cabinet IP24         Ambient temperature       0-50°C         Noise       <80dB	Payload*	30kg
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	Suction cup weight	10kg
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	Maximum carton weight	20kg
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	Reach	1480mm
Repeat positioning accuracy  Pallet placement form  Manual, one left and one right  1200mm*1000mm  Dimensions  L1230mm*W1730mm*H2471mm  Dimensions of wooden boxes  L2200mm*W1450mm*H1900mm  Maximum power  3.5KW  Reference gas consumption  Power supply requirements  AC220V±10%, 50Hz±5%  Gas supply requirements  0.5~0.7Mpa  Communication method  EtherCAT interface, expansion IO  IP level  Ambient temperature  0-50°C  Noise  **O.5**  **Annual, one left and one right  **Annual, one left and one right  **D.05**  **Annual, one left and one right  **D.05**  **Annual, one left and one right  **D.05**  **Annual, one left and one right  **D.000m*  **Annual, one left and one right  **D.000m*  **D	Maximum palletizing cycle	≦8pcs/min
Pallet placement form  Maximum compatible pallet  Dimensions  L1230mm*W1730mm*H2471mm  Dimensions of wooden boxes  L2200mm*W1450mm*H1900mm  Maximum power  3.5KW  Reference gas consumption  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  AMANUM, one left and one right  1200mm*1000mm  AC200mm*H19471mm  L1230mm*W1730mm*H2471mm  AC220V±10m*H1900mm  3.5KW  AC220V±10m*H1900mm  AC22	Maximum palletizing height	≦2350mm
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	Repeat positioning accuracy	±0.05mm
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	Pallet placement form	Manual, one left and one right
Dimensions of wooden boxes  L2200mm*W1450mm*H1900mm  Maximum power  3.5KW  Reference gas consumption  Power supply requirements  AC220V±10%, 50Hz±5%  Gas supply requirements  0.5~0.7Mpa  EtherCAT interface, expansion IO  IP level  Ambient temperature  0-50°C  Noise  L2200mm*W1450mm*H1900mm  3.5KW  AC220V±10%, 50Hz±5%  0.5~0.7Mpa  EtherCAT interface, expansion IO  Robot arm IP53/Cabinet IP24 <a href="mailto:kings-chi-kings&lt;/td&gt;&lt;td&gt;Maximum compatible pallet&lt;/td&gt;&lt;td&gt;1200mm*1000mm&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;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       &lt;80dB&lt;/td&gt;&lt;/td&gt;&lt;td&gt;Dimensions&lt;/td&gt;&lt;td&gt;L1230mm*W1730mm*H2471mm&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Reference gas consumption  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  &lt;a href=" mailto:240-460l="" min"="">240-460L/min</a> AC220V±10%, 50Hz±5%  0.5~0.7Mpa  EtherCAT interface, expansion IO  Robot arm IP53/Cabinet IP24  Ambient temperature  0-50°C <a href="mailto:480dB">480dB</a>	Dimensions of wooden boxes	L2200mm*W1450mm*H1900mm
Power supply requirements  Gas supply requirements  Communication method  IP level  Ambient temperature  Noise  AC220V±10%, 50Hz±5%  0.5~0.7Mpa  EtherCAT interface, expansion IO  Robot arm IP53/Cabinet IP24  0-50°C <a href="mailto:key"> <a h<="" td=""><td>Maximum power</td><td>3.5KW</td></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	Maximum power	3.5KW
Gas supply requirements  Communication method  EtherCAT interface, expansion IO  IP level  Robot arm IP53/Cabinet IP24  Ambient temperature  0-50°C  Noise  80dB	Reference gas consumption	240-460L/min
Communication method EtherCAT interface, expansion IO  IP level Robot arm IP53/Cabinet IP24  Ambient temperature 0-50°C  Noise <80dB	Power supply requirements	AC220V±10%, 50Hz±5%
IP level Robot arm IP53/Cabinet IP24  Ambient temperature 0-50°C  Noise <80dB	Gas supply requirements	0.5~0.7Mpa
Ambient temperature 0-50°C Noise <a href="mailto:orange-nc-12">o-50°C</a>	Communication method	EtherCAT interface, expansion IO
Noise < <80dB	IP level	Robot arm IP53/Cabinet IP24
	Ambient temperature	0-50°C
Main color Blue gray	Noise	<80dB
	Main color	Blue gray

## **Product Dimensions**



AWP-20 Dimensions (subject to actual objects)

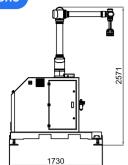
#### Technical Parameters

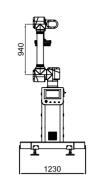
Model	AWP-20
Weight	About 600kg
Payload*	25kg
Suction cup weight	7kg
Maximum carton weight	18kg
Reach	1680mm
Maximum palletizing cycle	≦10pcs/min
Maximum palletizing height	≦2450mm
Repeat positioning accuracy	±0.05mm
Pallet placement form	Manual, one left and one right
Maximum compatible pallet	1200mm*1100mm
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

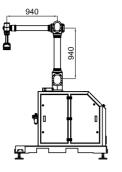
<sup>\*</sup>Payload= Suction cup weight + Maximum carton weight

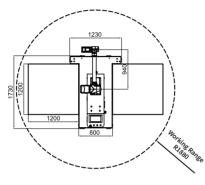


## **Product Dimensions**









AWP-20L Dimensions (subject to actual objects)

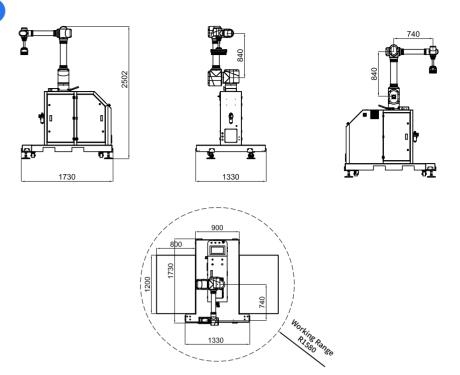
#### Technical Parameters

Model

 Payload*	
Suction cup weight	
<u> </u>	
Maximum carton weight	
Reach	
Maximum palletizing cycle	
Maximum palletizing height	
Repeat positioning accuracy	
Pallet placement form	
Maximum compatible pallet	
Dimensions	
Dimensions of wooden boxes	
Maximum power	
Reference gas consumption	
Power supply requirements	
Gas supply requirements	
Communication method	
P level	
Ambient temperature	
Noise	
Main color	

AWP-20L	
About 600kg	
20kg	
7kg	
13kg	
1880mm	
≦12pcs/min	
≦2550mm	
±0.05mm	
Manual, one left and one right	
1300mm*1200mm	
L1230mm*W1730mm*H2571mm	
L2200mm*W1450mm*H1900mm	
3.5KW	
240-460L/min	
AC220V±10%, 50Hz±5%	
0.5∼0.7Mpa	
EtherCAT interface, expansion IO	
Robot arm IP53/Cabinet IP24	
0-50°C	
<80dB	
Blue gray	

## **Product Dimensions**



AWP-40S Dimensions (subject to actual objects)

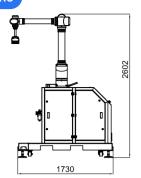
#### Technical Parameters

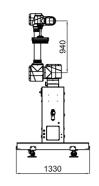
AWP-40S
About 650kg
50kg
12kg
38kg
1580mm
≦6pcs/min
≦2450mm
±0.05mm
Manual, one left and one right
1200mm*1000mm
L1330mm*W1730mm*H2502mm
L2250mm*W1450mm*H1900mm
3.5KW
240-460L/min
AC220V±10%, 50Hz±5%
0.5~0.7Mpa
EtherCAT interface, expansion IO
Robot arm IP53/Cabinet IP24
0-50°C
<80dB
Blue gray

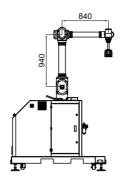
<sup>\*</sup>Payload= Suction cup weight + Maximum carton weight

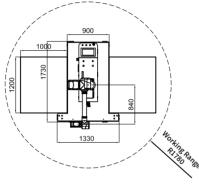


## **Product Dimensions**









AWP-40 Dimensions (subject to actual objects)

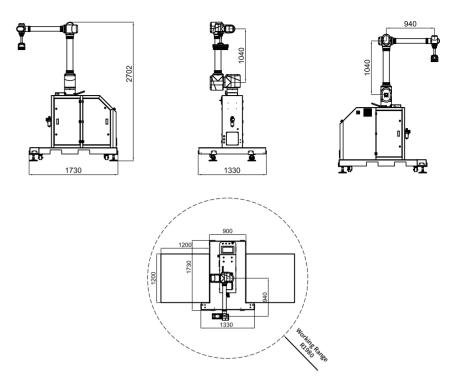
0-50°C <80dB Blue gray

## Technical Parameters

Model	
Weight	
Payload*	
Suction cup weight	
Maximum carton weight	
Reach	
Maximum palletizing cycle	
Maximum palletizing height	
Repeat positioning accuracy	
Pallet placement form	
Maximum compatible pallet	
Dimensions	
Dimensions of wooden boxes	
Maximum power	
Reference gas consumption	
Power supply requirements	
Gas supply requirements	
Communication method	
IP level	
Ambient temperature	
Noise	
Main color	

A	WP-40
Α	bout 650kg
4	5kg
1	2kg
3	3kg
1	780mm
É	≦8pcs/min
É	≦2550mm
±	0.05mm
Ν	Manual, one left and one right
1	200mm*1200mm
L	1330mm*W1730mm*H2602mm
L	2250mm*W1450mm*H1900mm
3	.5KW
2	40-460L/min
Δ	C220V±10%, 50Hz±5%
0	.5∼0.7Mpa
Е	therCAT interface, expansion IO
P	obot arm IP53/Cabinet IP24

## **Product Dimensions**



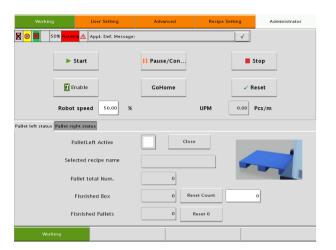
AWP-40L Dimensions (subject to actual objects)

#### 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

## **AWP Series Palletizing Workstation**

#### Operator Interface



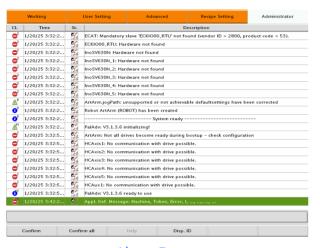
Main Page



**User Control Permissions** 



**Robot IO Input Monitoring** 



Alarm Page



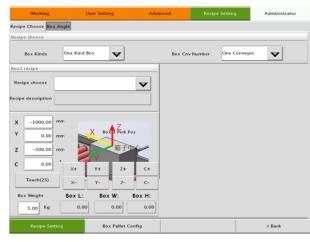
Robot Pick-and-place Compensation and Delay Settings



**Robot IO Output Monitoring** 

## **AWP Series Palletizing Workstation**

#### **Operator Interface**



**Carton Grabbing Configuration** 



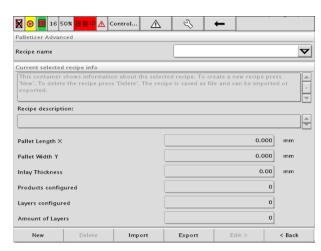
Robot Single-axis Jog Page



**Anti-collision Settings** 



**Anti-collision Detection** 



**Carton Stacking Configuration** 



**Robot Jog Button** 



Manufacturer's Pallet **Parameter Settings** 





AUCTECH Makes Human Life and Manufacturing More Convenient

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