



Product Model: AL-Y920-5

## Performance Features

- 1、 Simple operation, suitable even for non-professionals.
- 2、 Achieves arc ignition for conventional welds in just 10 seconds.
- 3、 High welding quality with aesthetically pleasing seams, offering significant product advantages.
- 4、 Flexible application—magnetic base allows the robotic arm to detach and move independently from the trolley.
- 5、 Ideal for large or hard-to-move workpieces; suitable for multiple categories and small-batch production.
- 6、 Easy mobility and strong adaptability.
- 7、 Cost-effective with a quick return on investment.

## Technical Specifications

### Product Model: AL-Y920-5

#### Robot Body

Type: 6-axis collaborative robot  
 Payload: 5kg  
 Repeat Positioning Accuracy:  $\pm 0.02\text{mm}$   
 Maximum Working Range: 920mm  
 Weight: 20kg

#### Robot Controller

#### HMI System

Wired control (standard), wireless module (optional)

#### External Wire Feeder

#### Welding Process Software

Fully Chinese interface  
 Independently developed  
 Comprehensive welding process packages  
 User-friendly operation

#### Welding Power Supply

350A/500A  
 Air-cooled (standard), water-cooled (optional)

#### Portable Mobile Cart (Optional Accessory)

Dimensions: 1200×700×1000mm  
 Model A (Basic): Compact design, easy mobility, clear layout  
 Model B (Protected): Full enclosure structure, modern appearance, all-round protection

### Performance Features



Product Model:AL-Y1400-10

- 1、 Simple operation, suitable even for non-professionals.
- 2、 Achieves arc ignition for conventional welds in just 10 seconds.
- 3、 High welding quality with aesthetically pleasing seams, offering significant product advantages.
- 4、 Ideal for large or hard-to-move workpieces; suitable for multiple categories and small-batch production.
- 5、 Easy mobility and strong adaptability.
- 6、 Cost-effective with a quick return on investment.

### Technical Specifications

#### Product Model: AL-Y1400-10

##### Robot Body

Type: 6-axis collaborative robot  
Payload: 10kg  
Repeat Positioning Accuracy:  $\pm 0.05\text{mm}$   
Maximum Working Range: 1400mm  
Weight: 40kg

##### Robot Controller

##### HMI System

Wired control (standard), wireless module (optional)

##### External Wire Feeder

##### Welding Process Software

Fully Chinese interface  
Independently developed  
Comprehensive welding process packages  
User-friendly operation

##### Welding Power Supply

350A/500A  
Air-cooled (standard), water-cooled (optional)

##### Portable Mobile Cart (Optional Accessory)

Dimensions: 1200×700×1000mm  
Model A (Basic): Compact design, easy mobility, clear layout  
Model B (Protected): Full enclosure structure, modern appearance, all-round protection

### Performance Features



Product Model: AL-1500-TIG

- 1、 Compact and lightweight design for enhanced portability and flexibility.
- 2、 Easy to move with a streamlined appearance, capable of reaching various worksites.
- 3、 Compatible welding types: straight lines, arcs, intermittent welding, and synchronized external axis coordination.
- 4、 The intuitive HMI (Human-Machine Interface) provides real-time visualization of welding parameters, workpiece data, and control elements, allowing operators to easily configure welding trajectories and process profiles.
- 5、 Advanced automated control system simplifies operation—initiates arc welding within 10 seconds without programming, requiring no manual intervention.
- 6、 Autonomous task execution based on predefined welding paths and parameters.
- 7、 Synchronized wire feeding system - Ensures stable and consistent wire delivery.
- 8、 Equipped with quick-access handheld controller

### Technical Specifications

#### Product Model: AL-1500-TIG

##### Robot Body

Type: 6-axis collaborative robot  
Payload: 9kg  
Repeat Positioning Accuracy:  $\pm 0.05\text{mm}$   
Maximum Working Range: 1500mm  
Weight: 37kg

##### Robot Controller

##### HMI System

Wired control (standard), wireless module (optional)

##### External Wire Feeder

##### Welding Power Supply

350A/500A  
Air-cooled (standard), water-cooled (optional)

##### Portable Mobile Cart (Optional Accessory)

Dimensions: 1200×700×1000mm  
Model A (Basic): Compact design, easy mobility, clear layout  
Model B (Protected): Full enclosure structure, modern appearance, all-round protection

### Performance Features



Product Model:AL-1500-CUT

- 1、 Compact and lightweight design for enhanced portability and flexibility.
- 2、 Easy to move with a streamlined appearance, capable of reaching various worksites.
- 3、 Cutting types: straight lines, arcs, and external axis matching.
- 4、 The intuitive HMI (Human-Machine Interface) provides real-time visualization of welding parameters, workpiece data, and control elements, allowing operators to easily configure welding trajectories and process profiles.
- 5、 Equipped with an advanced automated control system for simple operation—enables arc ignition and cutting within 10 seconds without programming, requiring no manual intervention.
- 6、 Autonomous task execution based on predefined welding paths and parameters.
- 7、 Equipped with quick-access handheld controller

### Technical Specifications

#### Product Model: AL-1500-CUT

##### Robot Body

Type: 6-axis collaborative robot  
Payload: 9kg  
Repeat Positioning Accuracy:  $\pm 0.05\text{mm}$   
Maximum Working Range: 1500mm  
Weight: 37kg

##### Robot Controller

##### HMI System

Wired control (standard), wireless module (optional)

##### Cutting Power Supply

LGK-125/160/200  
Standard water-cooled

##### Portable Mobile Cart (Optional Accessory)

Dimensions: 1200×700×1000mm  
Model A (Basic): Compact design, easy mobility, clear layout  
Model B (Protected): Full enclosure structure, modern appearance, all-round protection

### Performance Features



Product Model:AL-1500-MIG

- 1、 Compact and lightweight design for enhanced portability and flexibility.
- 2、 Easy to move with a streamlined appearance, capable of reaching various worksites.
- 3、 Compatible welding types: straight lines, arcs, intermittent welding, multi-layer / multipass welding, and synchronized external axis coordination.
- 4、 The intuitive HMI (Human-Machine Interface) provides real-time visualization of welding parameters, workpiece data, and control elements, allowing operators to easily configure welding trajectories and process profiles.
- 5、 Advanced automated control system simplifies operation—initiates arc welding within 10 seconds without programming, requiring no manual intervention.
- 6、 Autonomous task execution based on predefined welding paths and parameters.
- 7、 Equipped with quick-access handheld controller.
- 8、 Adaptive welding posture with tilt/roll angle adjustments for optimal positioning.

### Technical Specifications

#### Product Model: AL-1500-MIG

##### Robot Body

Type: 6-axis collaborative robot  
Payload: 9kg  
Repeat Positioning Accuracy:  $\pm 0.05\text{mm}$   
Maximum Working Range: 1500mm  
Weight: 37kg

##### Robot Controller

##### HMI System

Wired control (standard), wireless module (optional)

##### Welding Power Supply

350PLUSEA / 500PLUSEA  
Standard with Water Cooling

##### Portable Mobile Cart (Optional Accessory)

Dimensions: 1200×700×1000mm  
Model A (Basic): Compact design, easy mobility, clear layout  
Model B (Protected): Full enclosure structure, modern appearance, all-round protection

### Performance Features



Product Model:AL-1300-MIG

- 1、 Compact and lightweight design for enhanced portability and flexibility.
- 2、 Easy to move with a streamlined appearance, capable of reaching various worksites.
- 3、 Compatible welding types: straight lines, arcs, intermittent welding, multi-layer/multi-pass welding, and synchronized external axis coordination.
- 4、 The intuitive HMI (Human-Machine Interface) provides real-time visualization of welding parameters, workpiece data, and control elements, allowing operators to easily configure welding trajectories and process profiles.
- 5、 Advanced automated control system simplifies operation—initiates arc welding within 10 seconds without programming, requiring no manual intervention.
- 6、 Autonomous task execution based on predefined welding paths and parameters.
- 7、 Equipped with quick-access handheld controller.
- 8、 Adaptive welding posture with tilt/roll angle adjustments for optimal positioning.

### Technical Specifications

#### Product Model: AL-1300-MIG

##### Robot Body

Type: 6-axis collaborative robot  
Payload: 4kg  
Repeat Positioning Accuracy:  $\pm 0.05\text{mm}$   
Maximum Working Range: 1300mm  
Weight: 22kg

##### Robot Controller

##### HMI System

Wired control (standard), wireless module (optional)

##### Welding Power Supply

350PLUSEA / 500PLUSEA  
Standard with Water Cooling

##### Portable Mobile Cart (Optional Accessory)

Dimensions: 1200×700×1000mm  
Model A (Basic): Compact design, easy mobility, clear layout  
Model B (Protected): Full enclosure structure, modern appearance, all-round protection

### Performance Features



Product Model:AL-1400-LASER

- 1、 Compact and lightweight design for enhanced portability and flexibility.
- 2、 Easy to move with a streamlined appearance, capable of reaching various worksites.
- 3、 Welding capabilities: straight lines, arcs, intermittent welding, and synchronized external axis coordination.
- 4、 The intuitive HMI (Human-Machine Interface) provides real-time visualization of welding parameters, workpiece data, and control elements, allowing operators to easily configure welding trajectories and process profiles.
- 5、 Advanced automated control system enables programming-free arc ignition within 10 seconds for autonomous operation.
- 6、 Autonomous task execution based on predefined welding paths and parameters.
- 7、 Synchronized wire feeding system - Ensures stable and consistent wire delivery.
- 8、 Equipped with quick-access handheld controller.

### Technical Specifications

#### Product Model: AL-1400-LASER

##### Robot Body

Type: 6-axis collaborative robot  
Payload: 10kg  
Repeat Positioning Accuracy:  $\pm 0.05\text{mm}$   
Maximum Working Range: 1400mm  
Weight: 37kg

##### Robot Controller

##### HMI System

Wired control (standard), wireless module (optional)

##### External Wire Feeder

##### Welding Power Supply

1500/2000/3000w  
Water cooling as standard, air cooling as an option

##### Portable Mobile Cart (Optional Accessory)

Dimensions: 1200×700×1000mm  
Model A (Basic): Compact design, easy mobility, clear layout  
Model B (Protected): Full enclosure structure, modern appearance, all-round protection

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