



Enables Every Factory To Use Good Robot

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Jihoyen

Industrial robot

**JIHOYEN ROBOT CATALOG**

Wuxi Jihoyen Industrial Automation Co., Ltd.

# Company Profile



## Wuxi Jihoyen Industrial Automation Co., Ltd.

Wuxi Jihoyen company is a high-tech enterprise that independently researches, develops, designs and produces industrial robots and provides solutions for industrial automation systems. Jihoyen has 10 years integration project experience in automation and industrial robots field and has more than 50 related intellectual properties.

We are one of the leading manufacture in China of the industrial robot which used for welding, cutting, stamping, handling. We also provide customers stable, reliable and cost-effective technical solution design; peripheral equipment, robot application technology training. Jihoyen robots are widely used for these applications like motorcycle parts, steel structure, farm machine, steel furniture, construction machinery, new energy, warehouse logistic, etc.

Our vesion is enable every factory to use good robot.



# JIHOYEN ROBOT

01

**High Density:** Die-casting technology was used for the robot arm to make the fore arm and upper arm with high density but lighter.

02

**Flexible Moving:** The ingenious design makes the robot structure reach a golden ratio and with wider working range, flexible movement.

03

**Core Components:** All of the core components adopt leading brand in China to ensure welding quality and performance stable and reliable.

04

**Built-in Cables:** Cables are built in to reduce interference during use and makes the robot look more compact.

05

**3 Yrs /7500h Maintenance-free :** Maintenance is simple, customers themselves can easily operate under our remote support.

06

**Simple operate system:** Operation page is simple and clear, in line with the customer's use habits, simple operation, easy to learn.



6 axis welding robot

# BR-1510 series



1500mm reach

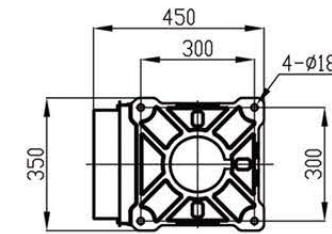
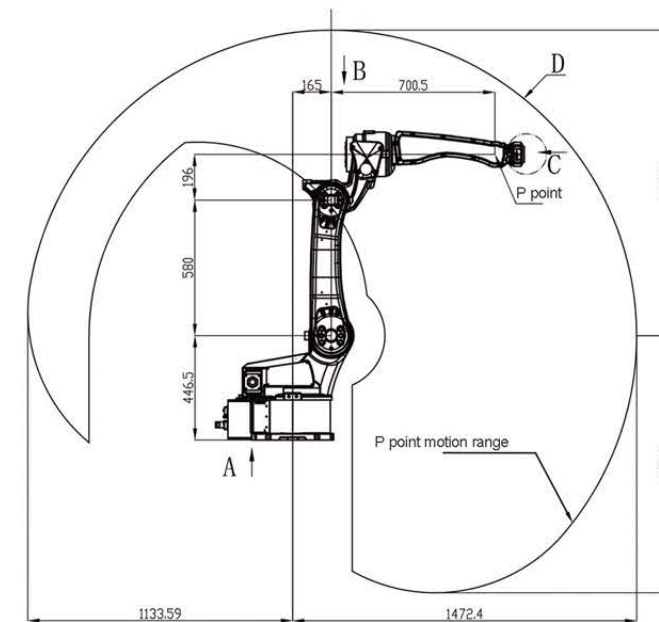
6kg max payload

For MIG welding

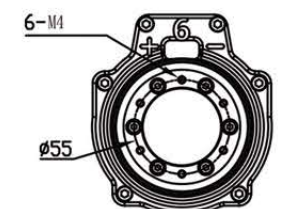
MODEL BR-1510A/ BR-1510 DEX/ BR-1510 PRO/ BR-1510 PLUS

## Robot parameter

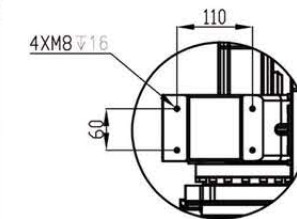
Model	BR-1510	Motion Range	J1	$\pm 170^\circ$	Motion Speed	J1	259.3°/s
Axis	6		J2	+155° ~ -42°		J2	160° /s
Reach(about)	1500mm		J3	$\pm 80^\circ$		J3	296.3° /s
Max Payload	6KG		J4	$\pm 150^\circ$		J4	294.1° /s
Repeatability	$\pm 0.08\text{mm}$		J5	+105° ~ -130°		J5	294.1° /s
Power Capacity	2KVA		J6	$\pm 220^\circ$		J6	426.7° /s
Protection Class	IP65	Installation Method	Ground				
Robot Weight	172KG	Use Environment	0-45°C,20-80%RH(No condensation)				
Function	Welding	Input Voltage	Single-phase 220V $\pm 10\%$ 50/60Hz				



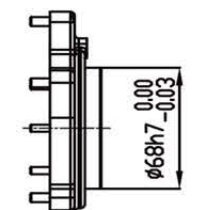
View A



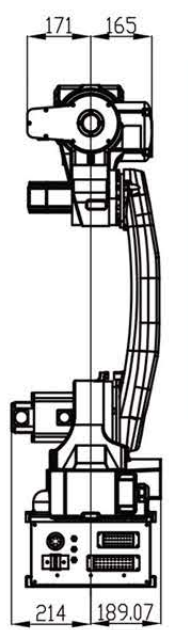
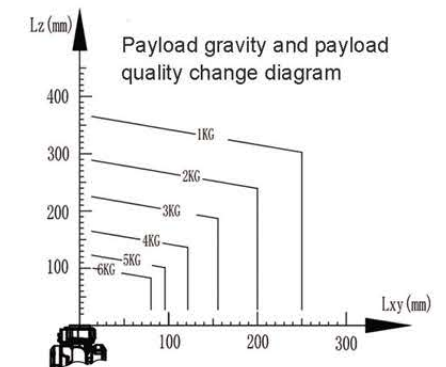
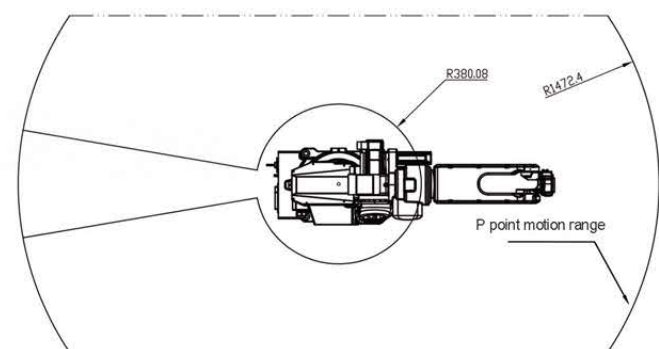
View C



View B



View D



6 axis welding robot

# BR-1810 series



1800mm reach

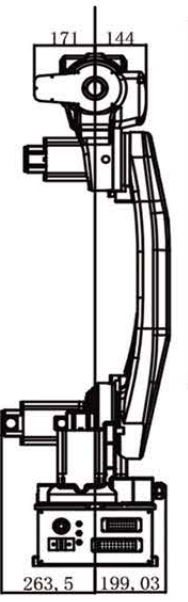
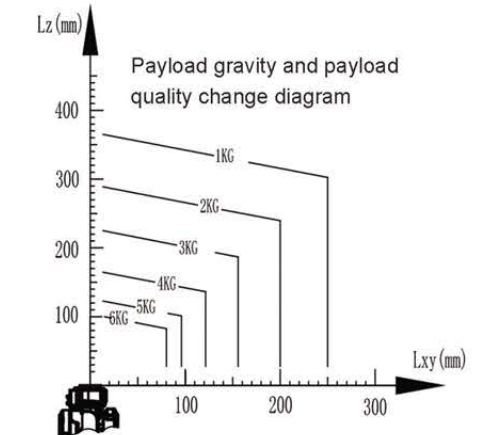
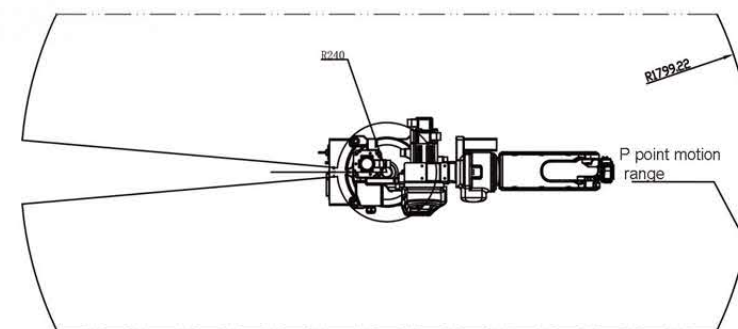
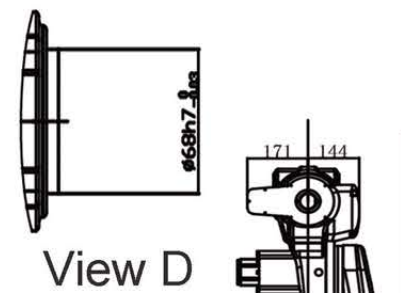
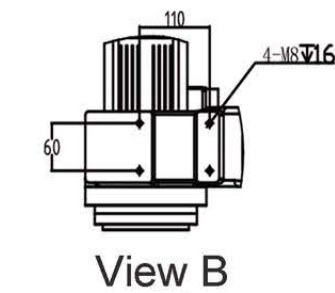
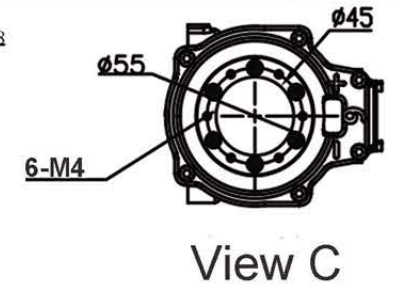
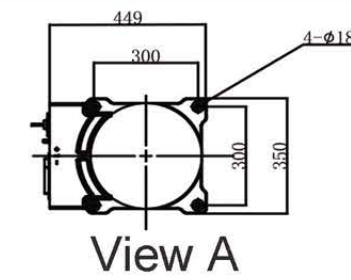
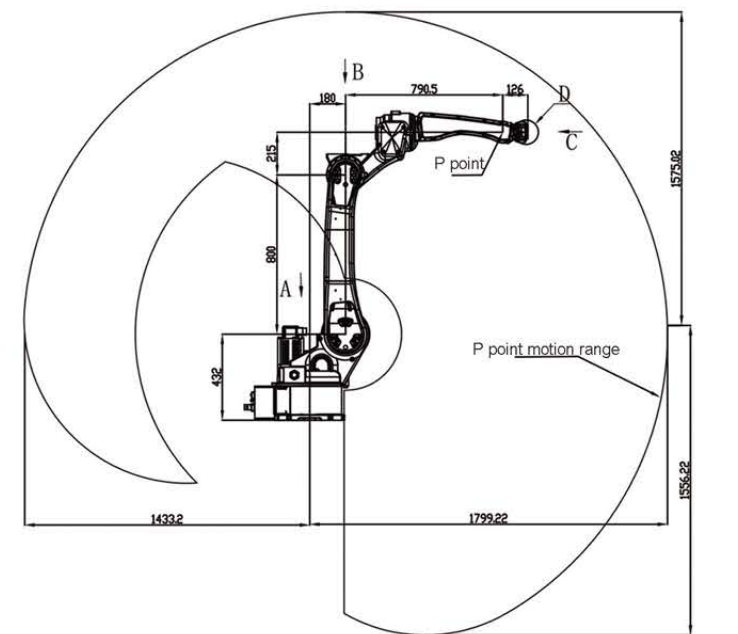
6kg max payload

For MIG welding

MODEL BR-1810A/ BR-1810 DEX/ BR-1810 PRO/ BR-1810 PLUS

## Robot parameter

Model	BR-1810	Motion Range	J1	$\pm 175^\circ$	Motion Speed	J1	$172.1^\circ /s$
Axis	6		J2	$+175^\circ \sim -60^\circ$		J2	$138.8^\circ /s$
Reach(about)	1800mm		J3	$+170^\circ \sim -85^\circ$		J3	$259.3^\circ /s$
Max Payload	6KG		J4	$\pm 150^\circ$		J4	$294.1^\circ /s$
Repeatability	$\pm 0.08mm$		J5	$+105^\circ \sim -130^\circ$		J5	$294.1^\circ /s$
Power Capacity	3KVA		J6	$\pm 220^\circ$		J6	$426.7^\circ /s$
Protection Class	IP65	Installation Method	Ground				
Robot Weight	200KG	Use Environment	$0-45^\circ C, 20-80\%RH$ (No condensation)				
Function	Welding	Input Voltage	Single-phase $220V \pm 10\%$ 50/60Hz				



6 axis welding robot

# BR-2010 series



2000mm reach

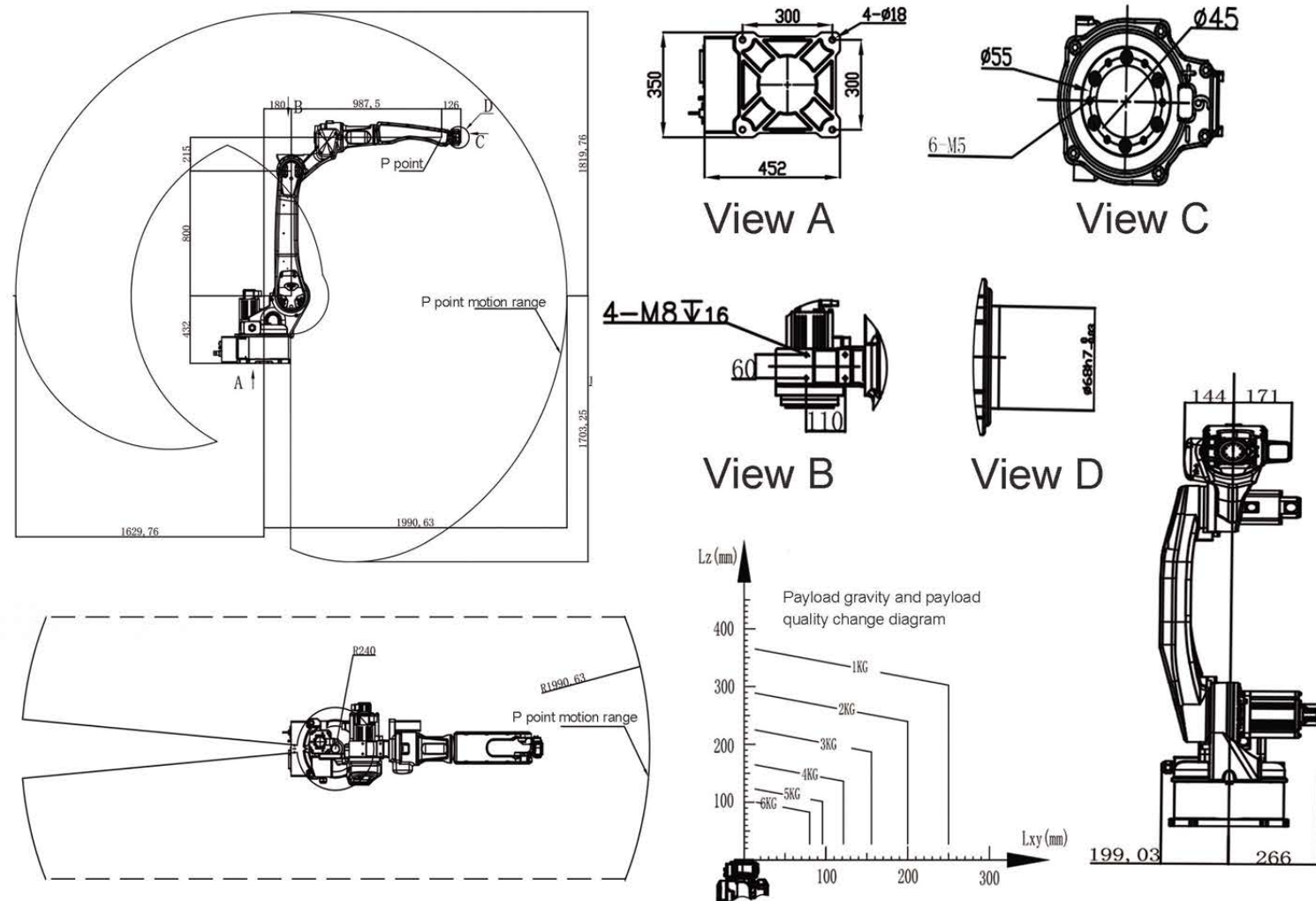
6kg max payload

For MIG welding

MODEL BR-2010A/ BR-2010 DEX/ BR-2010 PRO/ BR-2010 PLUS

## Robot parameter

Model	BR-2010	J1	$\pm 175^\circ$	J1	$172.1^\circ /s$
Axis	6	J2	$+175^\circ \sim -60^\circ$	J2	$135.1^\circ /s$
Reach(about)	2000mm	J3	$+170^\circ \sim -85^\circ$	J3	$259.3^\circ /s$
Max Payload	6KG	J4	$\pm 150^\circ$	J4	$294.1^\circ /s$
Repeatability	$\pm 0.08mm$	J5	$+105^\circ \sim -130^\circ$	J5	$294.1^\circ /s$
Power Capacity	3KVA	J6	$\pm 220^\circ$	J6	$426.7^\circ /s$
Protection Class	IP65	Installation Method	Ground		
Robot Weight	230KG	Use Environment	$0-45^\circ C, 20-80\%RH$ (No condensation)		
Function	Welding	Input Voltage	Single-phase $220V \pm 10\%$ 50/60Hz		



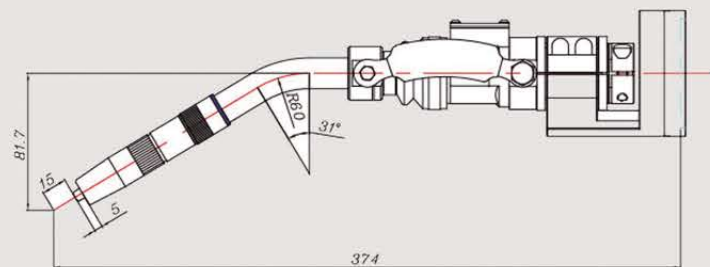
## BR Standard Series

(BR-1510 A /BR-1810 A /BR-2010 A)



This series are used for the processing of thin carbon steel sheet, sheet metal and structural parts.

## Welding Torch



Rated Current ( MIG )	350A
Rated Current ( MAG )	300A
Duty Rate	60 %
Wire Match	φ0.8-1.2
Cooling Way	AIR Cooling

## Ehava CM350

Heavy-duty Full Digital Intelligent Welding Machine

- First-choice for harsh heavy-duty working environment
- Extensively applied in various carbon steel welding industries: rail transit, automobile, shipbuilding, steel structure, container, machining, metal hardware, etc



MIG welding machine	Carbon Steel	Stainless Steel	Aluminium Alloy	Ultra Low Splash	Water-cooling
Ehava CM350	●				



## Welding machine parameter

Model	MEGMEET Ehava CM350
Control mode	Full Digital
Input voltage	3 phase 380Vac±25%,285V~475V
Input current frequency	30Hz~80Hz
Input capacity	13.5KVA
Rated Open-circuit voltage	63.7V
Output current range	30A~400A
Output voltage range	12V~38V
Rated duty cycle	60%@350A@40°C
Welding method	CO <sub>2</sub> /MAG/MMA,solid wire,flux-cored wire,electrode
Wire diameter	φ0.8 / 1.0 / 1.2/mm
Welding Type	Carbon Steel
Protection grade	IP23S
Cooling mode	Intelligent air cooling
Arc dynamic	-9~+9
Dimensions	300mm×480mm×620mm
Weight	48kg

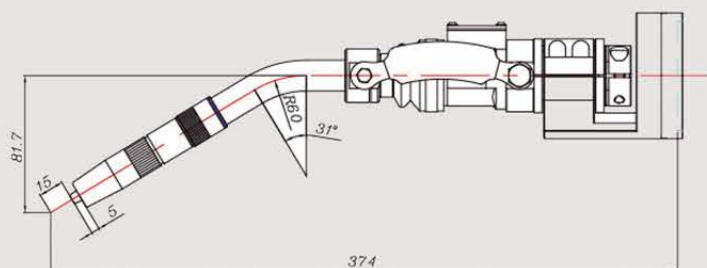
## BR Dex Series

(BR-1510 Dex /BR-1810 Dex /BR-2010 Dex)



This series are used for the processing of thin carbon steel sheet under 2mm, sheet metal and structural parts, with ultra low splash. The most cost-effective series.

## Welding Torch



Rated Current ( MIG )	350A
Rated Current ( MAG )	300A
Duty Rate	60 %
Wire Match	φ0.8-1.2
Cooling Way	AIR Cooling

## MAG-350RL

MIG/MAG Intelligent Welding Machine

- Can realize ultra-low spatter welding of 0.8-3mm carbon steel and galvanized sheet

The heat input is reduced by 10% to 20%, small welding deformation and stable welding quality



MIG welding machine	Carbon Steel	Stainless Steel	Aluminium Alloy	Ultra Low Splash	Water-cooling
Aotai 350RL	●			●	



## Welding machine parameter

Model	AOTAI MAG-350RL
Control mode	Full digital
Input voltage	3 phase 380V ±10% 50Hz
Rated Input current	21A
Rated Input capacity	14KVA
Rated Output voltage	31.5V
Rated Open-circuit voltage	96V
Output current range	60A-350A
Output voltage range	17V-31.5V
Rated duty cycle	60%
Welding method	MIG/MAG
Wire diameter	φ0.8 /1.0 / 1.2 mm
Welding Type	Carbon Steel
Protection grade	IP23
Cooling mode	air cooling
Gas flow	15-20(L/min)
Dimensions	660X320X560mm
Weight	55kg



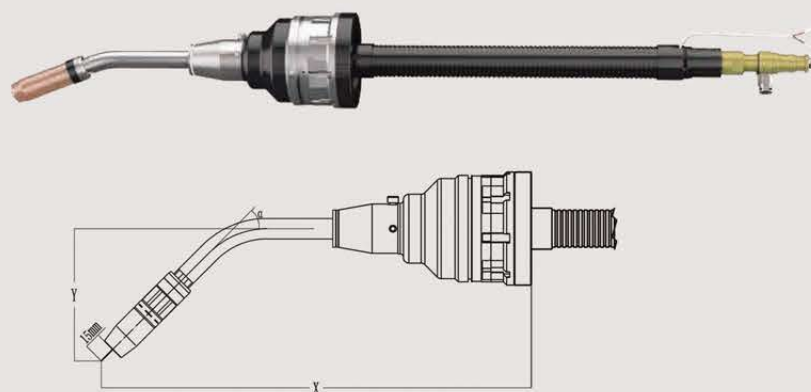
## BR Plus Series

(BR-1510 Plus /BR-1810 Plus /BR-2010 Plus)



This series are used for the processing of medium thick carbon steel sheet and structural parts.

## Welding Torch



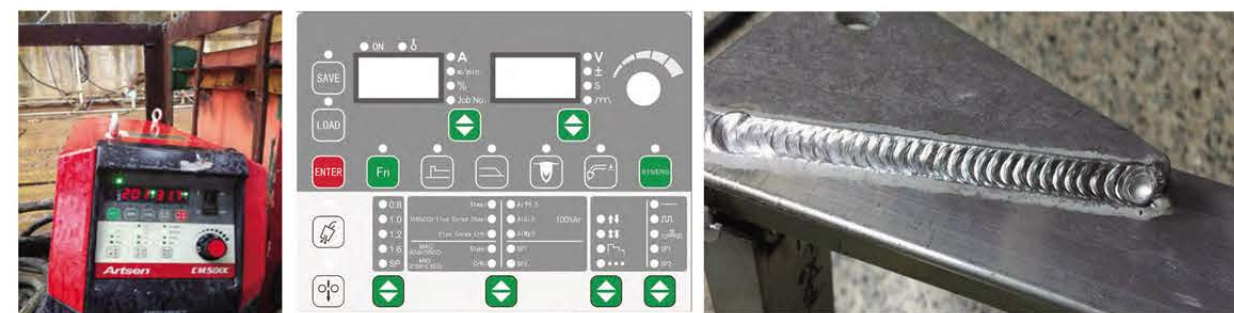
Rated Current ( MIG )	350A Co <sub>2</sub> 300A mixed gas M21
Duty Rate	100 %
Wire Match	φ0.8-1.2mm
Cooling Way	AIR Cooling
Welding torch angle	31°/45°

## Artsen CM500C

Heavy-duty CO<sub>2</sub>/MAG Carrier Intelligent Welding Machine

- Designed for ultra-long distance(up to 100 meters) welding in large structure industries as shipbuilding, offshore, steel structure, etc.
- Industry-leading digital bi-directional high-speed carrier communication

MIG welding machine	Carbon Steel	Stainless Steel	Aluminium Alloy	Ultra Low Splash	Water-cooling
Artsen CM500C	●				



## Welding machine parameter

Model	MEGMEET Artsen CM500C
Control mode	Full Digital
Input voltage	3 phase 380Vac±25%,285V~475V
Input current frequency	30 ~ 80Hz
Input capacity	24KVA/22.3KW
Rated Open-circuit voltage	75V
Output current range	50A~500A
Output voltage range	12V~50V
Rated duty cycle	100%@500A@40°C
Welding method	Co <sub>2</sub> / MAG/MMA,solid wire,flux-cored wire,electrode
Wire diameter	φ 1.0 / 1.2/1.4/1.6/mm
Welding Type	Carbon Steel
Protection grade	IP23S
Cooling mode	Intelligent air cooling
Arc dynamic	-9~+9
Dimensions	300mm×480mm×620mm
Weight	52kg

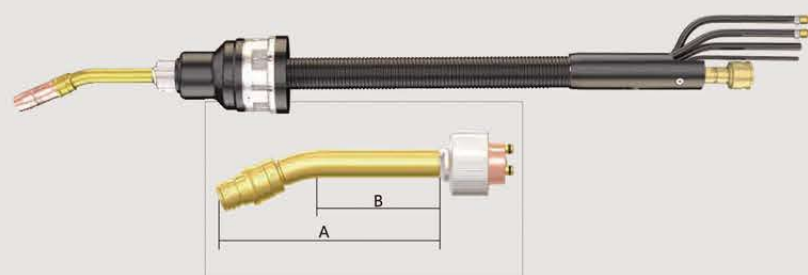
# BR Pro Series

(BR-1510 Pro /BR-1810 Pro /BR-2010 Pro)



This series are used for the processing of thick carbon steel sheet and structural parts, especially for construction machinery workpieces.

## Welding Torch



Model	Description	A	B
605W22	syphon(22°)	159	86
605W22L	syphon(22°longer)	333	260

Rated Current ( MIG ) 550A Co<sub>2</sub>

500A mixed gas M21

Duty Rate 100 %

Wire Match φ 0.8-1.6mm

Cooling Way water Cooling

Welding torch angle 22°/36°/45°/180°

# Artsen Pro 500P

Intelligent Welding Machine With Extendable Process Platform

- Strong functions: multi communication mode+high and low voltage positioning+arc tracking+integrated push-pull welding torch drive
- New JOB mode brings collection of welding process. Dual Pulse? Dual DC? DC+Pulse? All up to you!

MIG welding machine	Carbon Steel	Stainless Steel	Aluminium Alloy	Ultra Low Splash	Water-cooling
Artsen Pro500P	●	●		●	●



## Welding machine parameter

Model	MEGMEET Artsen Pro500P
Control mode	Full Digital
Input voltage	3 phase 380V AC
Input current frequency	50 ~ 60Hz
Input capacity	24KVA/22.3KW
Rated open-circuit voltage	85V
Output current range	30A~500A
Output voltage range	12V~45V
Rated duty cycle	60%@500A@40°C
Welding method	Co <sub>2</sub> / MAG/MIG,short arc pulse
Wire diameter	φ0.8 /1.0 / 1.2/1.6/SPmm
Welding Type	Carbon Steel +Stainless Steel
Protection grade	IP23S
Cooling mode	Intelligent air cooling
Arc dynamic	-7~+7
Dimensions	300mm×480mm×620mm
Weight	57.5kg

# 6 Axis Multi-funtional robot

## BR-1610



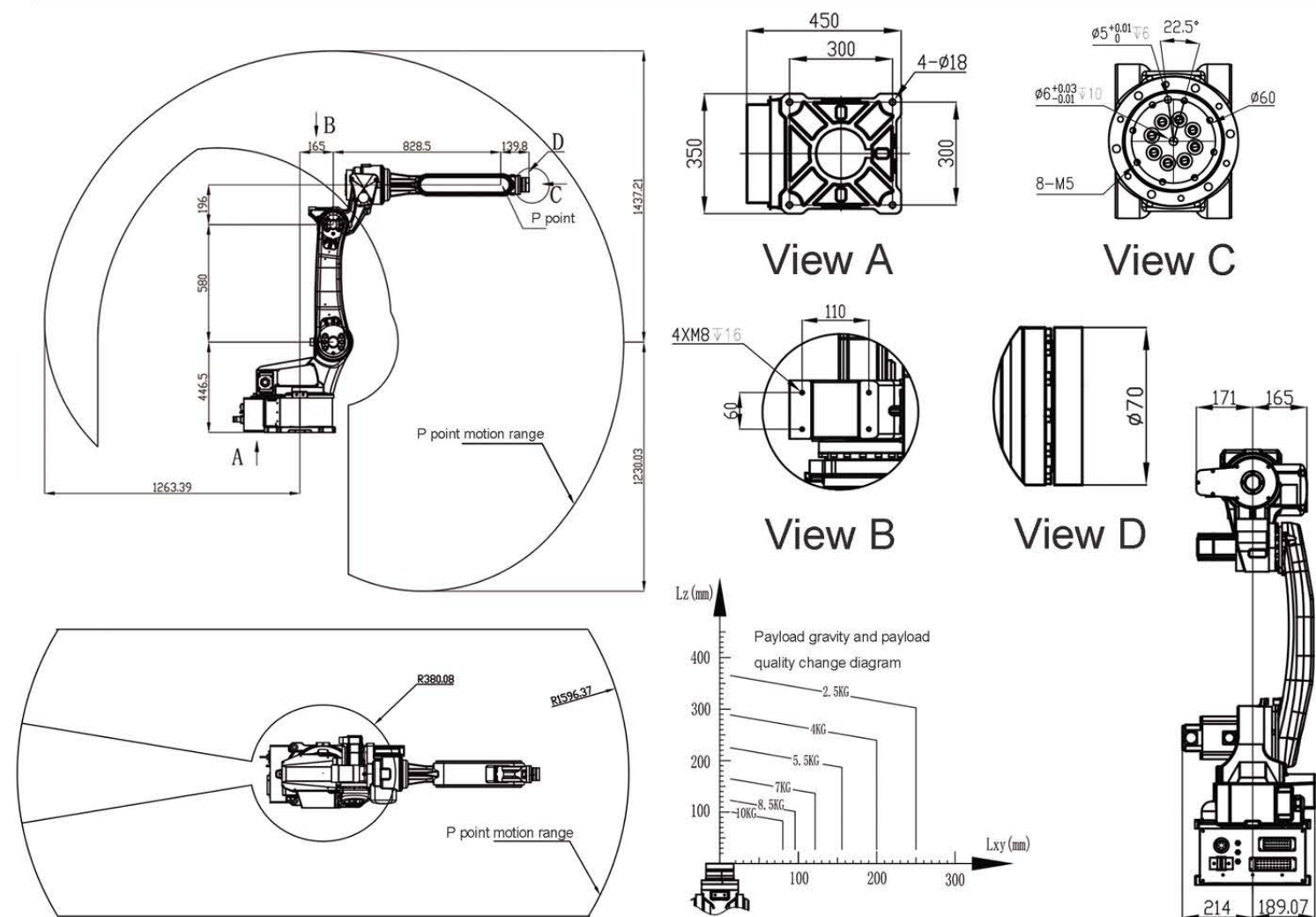
1600mm reach

10kg max payload

For handling, welding

### Robot parameter

Model	BR-1610	Motion Range	J1	$\pm 170^\circ$	Motion Speed	J1	259.3° /s
Axis	6		J2	$+170^\circ \sim -40^\circ$		J2	160° /s
Reach(about)	1600mm		J3	$+150^\circ \sim -90^\circ$		J3	296.3° /s
Max Payload	10KG		J4	$\pm 150^\circ$		J4	294.1° /s
Repeatability	$\pm 0.08\text{mm}$		J5	$\pm 135^\circ$		J5	270° /s
Power Capacity	2.5KVA		J6	$\pm 360^\circ$		J6	265.8° /s
Protection Class	IP65	Installation Method	Ground				
Robot Weight	180KG	Use Environment	0-45°C, 20-80%RH(No condensation)				
Function	handling welding	Input Voltage	Single-phase 220V $\pm 10\%$ 50/60Hz				



# 6 Axis Multi-funtional robot

## BR-1916



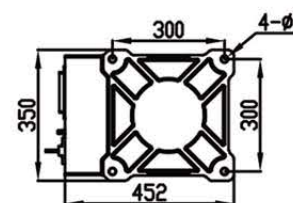
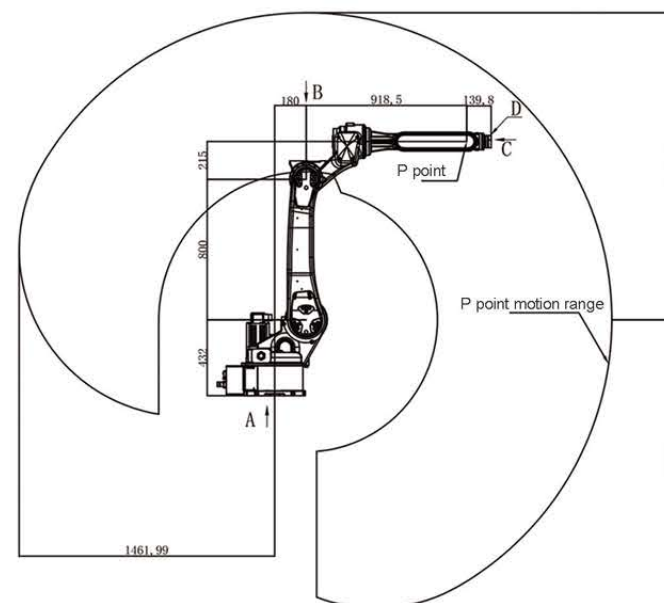
1900mm reach

16kg max payload

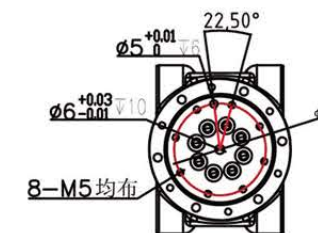
For handling, welding

### Robot parameter

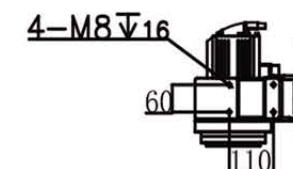
Model	BR-1916	Motion Range	J1	$\pm 175^\circ$	Motion Speed	J1	$172.1^\circ /s$
Axis	6		J2	$+175^\circ \sim -60^\circ$		J2	$138.8^\circ /s$
Reach(about)	1900mm		J3	$+170^\circ \sim -85^\circ$		J3	$259.3^\circ /s$
Max Payload	16KG		J4	$\pm 150^\circ$		J4	$294.1^\circ /s$
Repeatability	$\pm 0.08mm$		J5	$\pm 135^\circ$		J5	$270^\circ /s$
Power Capacity	3KVA		J6	$\pm 360^\circ$		J6	$265.8^\circ /s$
Protection Class	IP65	Installation Method	Ground				
Robot Weight	200KG	Use Environment	$0-45^\circ C, 20-80\%RH$ (No condensation)				
Function	handling welding	Input Voltage	Single-phase $220V \pm 10\%$ 50/60Hz				



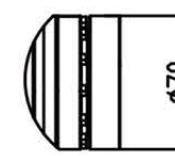
View A



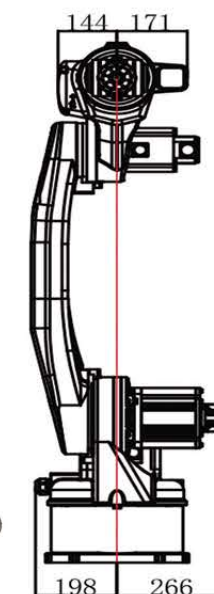
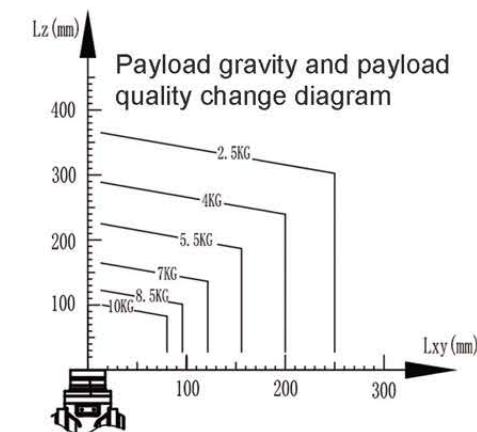
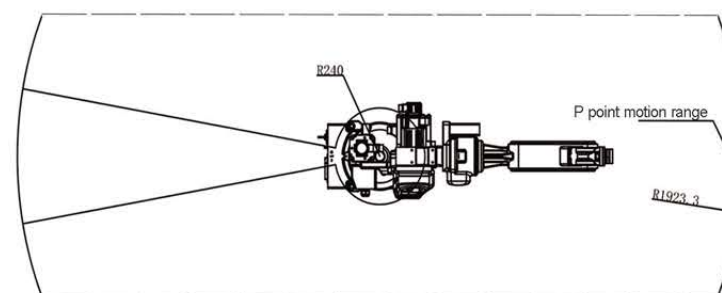
View C



View B



View D



## JHY4030D-080

1 AXIS



<b>Model</b>	<b>JHY4030D-080</b>
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	Diameter 800mm(can be customized)
Weight	About 400kg
Max. Payload	Axial Payload ≤300kg / ≤500kg / ≤1000kg (> 1000kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY4030A-180/250

1 AXIS



<b>Model</b>	<b>JHY4030A-180 / JHY4030A-250</b>
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	1800X800mm / 2500X800mm (can be customized)
Weight	About 600kg/ About 800kg
Max. Payload	Axial Payload ≤300kg / ≤500kg/ ≤1000kg (> 1000kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY4010T-065

1 AXIS



<b>Model</b>	<b>JHY4010T-065</b>
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	650mm(can be customized)
Weight	About 400kg
Max. Payload	Axial Payload ≤100kg / ≤500kg / ≤1000kg (> 1000kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY4010U-050/120

2 AXIS



<b>Model</b>	<b>JHY4010U-050 / JHY4010U-120</b>
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	Diameter 500mm / 1200X1200mm (can be customized)
Weight	Refer to actual weight
Max. Payload	Axial Payload ≤100kg / ≤500kg/ ≤1000kg (> 1000kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY4030P-080

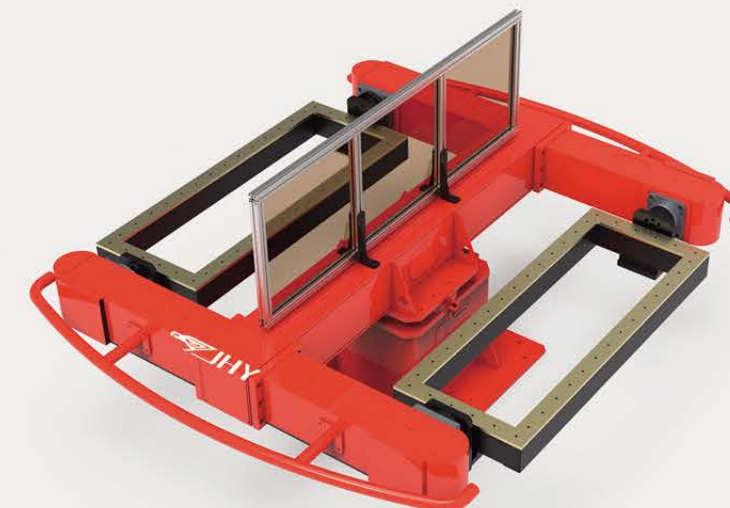
**2 AXIS**



<b>Model</b>	<b>JHY4030P-080</b>
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	Diameter 800mm (can be customized)
Weight	About 400kg
Max. Payload	Axial Payload ≤300kg / ≤500kg (>500kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY4030S-180/250

**3 AXIS**



<b>Model</b>	<b>JHY4030S-180 / JHY4030S-250</b>
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	1800X800mm / 2500X800mm (can be customized)
Weight	About 1600kg
Max. Payload	Axial Payload ≤100kg / ≤300kg / ≤500kg (>500kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY4050L-080

**L2 AXIS**



<b>Model</b>	<b>JHY4050L-080</b>
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	800mm (can be customized)
Weight	About 400kg
Max. Payload	Axial Payload ≤500kg / ≤1000kg (>1000kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY6030A/6050A/6100A

**≥ 3 m**



<b>Model</b>	<b>JHY6030A/ 6050A/ 6100A</b>
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	500X500mm (can be customized)
Weight	About 450kg
Max. Payload	Axial Payload ≤300kg / ≤500kg / ≤1000kg (>1000kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY4030L-080

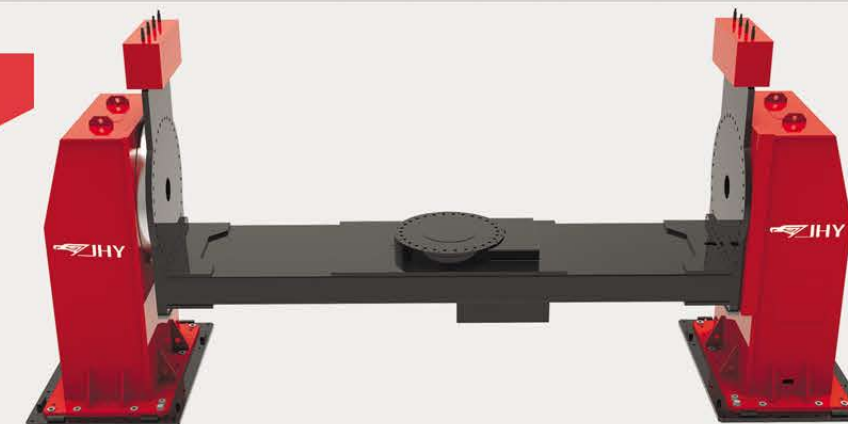
3 AXIS



Model	JHY4030L-080
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	Diameter 800mm (can be customized)
Lifting height	1200mm
Max. Payload	Axial Payload ≤300kg / ≤500kg / ≤1000kg (>1000kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY4500U

2 AXIS



Model	JHY4500U
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	can be customized
Lifting height	1700mm
Max. Payload	500~10000kg (can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## JHY4050C

2 AXIS



Model	JHY4050C
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	can be customized
Lifting height	1200mm
Max. Payload	Axial Payload ≤300kg / ≤500kg (>500kg can be customized)
Repeatability	±0.1mm
Stop Position	Any Position
Installation	Hanging/ Ground / Side

## JHY41000

2 AXIS



Model	JHY41000
Rated Input Voltage	Single-phase 220V, 50/60HZ
Motor Insulation Calss	F
Work Table	Varie length workpieces compatible,moving distance can be customized
Lifting height	2200mm
Max. Payload	500~10000kg (can be customized)
Repeatability	±0.1mm
Stop Position	Any Position

## Standard workstation

### 8 axis workstation

- \* one 6 axis robot
- \* two 1-axis head-tail positioners
- \* one torch clean device



### 7 axis workstation

- \* one 6 axis robot
- \* one 1-axis horizontal rotary positioner



## Standard workstation

### 8 axis workstation

- \* one 6 axis robot
- \* one 2-axis P type positioner



### 8 axis workstation

- \* one 6 axis robot
- \* one 2-axis L type positioner



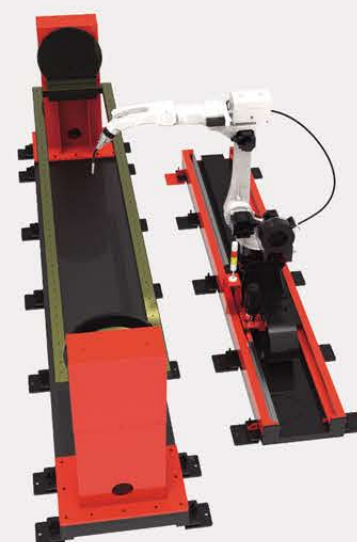
### 7 axis workstation

- \* one 6 axis robot
- \* one 1-axis headstock positioner



### 8 axis workstation

- \* one 6 axis robot
- \* one 1-axis head-tail positioner
- \* one ground rail



### 8 axis workstation

- \* one 6 axis robot
- \* one 2-axis U type positioner



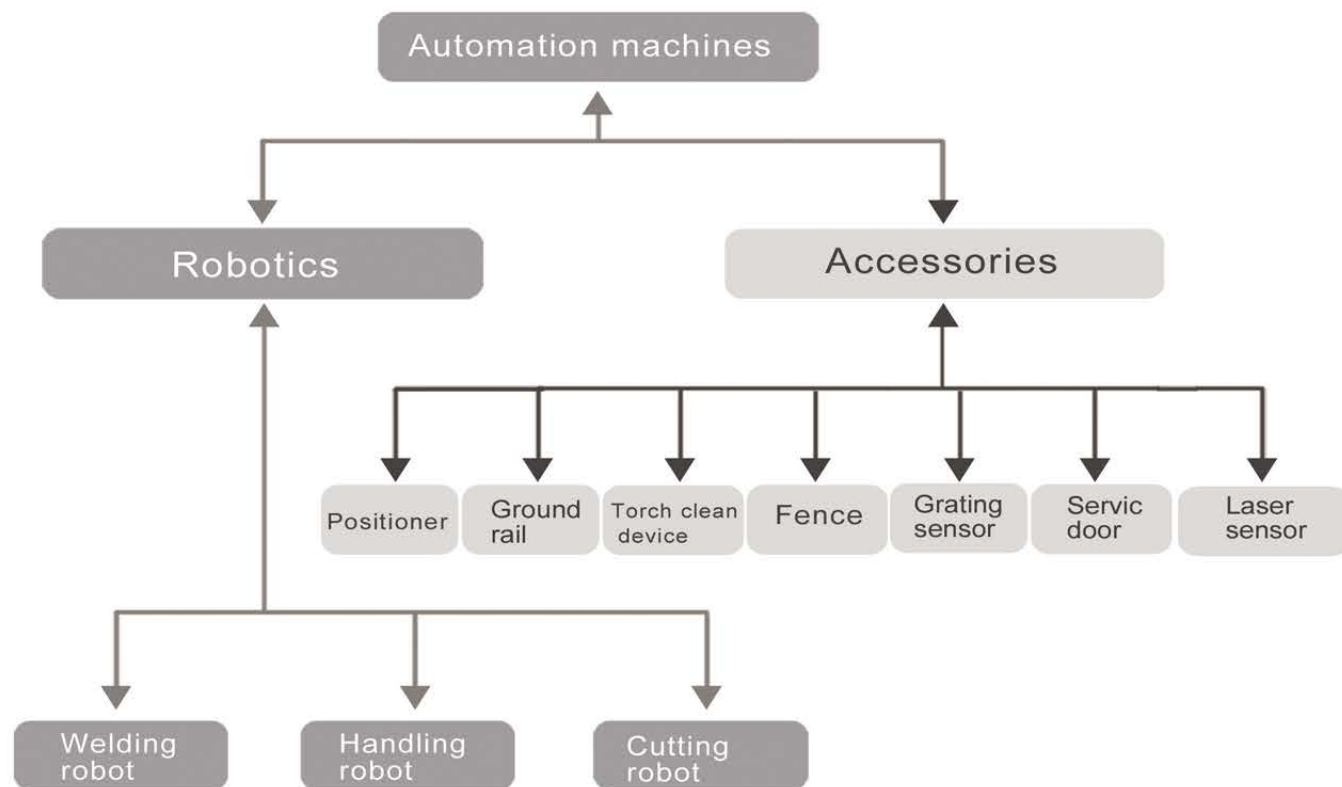
### 9 axis workstation

- \* one 6 axis robot
- \* one 3-axis rotary positioner





## Robot workstation equipment selection guide



## Robot accessories selection

### Torch clean device

- Cleaning torch, cutting welding wire, spraying oil.
- It can be installed on the welding worktable or moved with the robot's ground rail.
- Imported pneumatic motor, stable speed, large torque, easy and quick slag removal.
- Any type of welding robot can be connected.
- The reamer can be replaced according to the welding gun nozzle, and the cleaning depth is adjustable.

