





#### Shanghai Innotec Welding Technology Co., LTD.

- Building 8 No.116 Cheyang Road, Songjing District, Shanghai
- **\$** +86 (021) 54883220,34305197
- ➡ +86 (021) 54883224

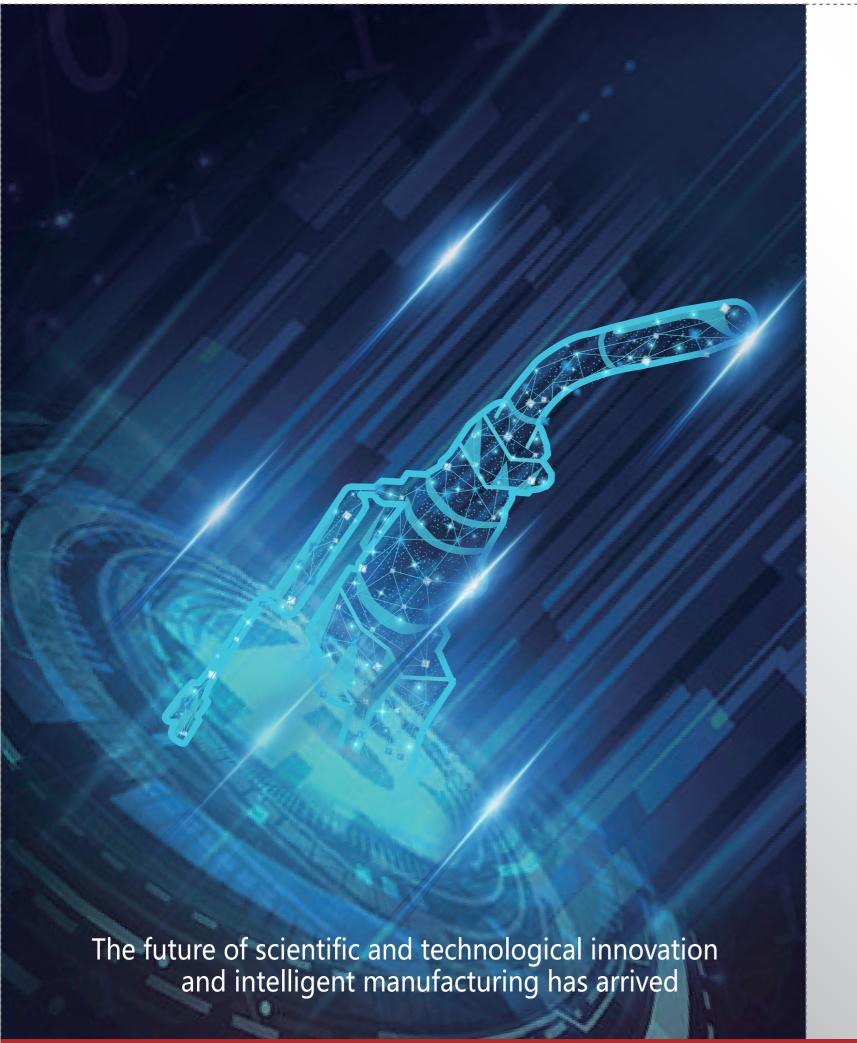
www.minoo-cn.com 2025.3











## **ROBOT WELDING GUN**

	MIG/MAG	
•	350S	_
•	500S	_
•	350D	_
•	500D	_
•	501W	
•	W350 Exter	ſ
•	W500	_
•	W500 Exter	ſ
•	W550	-
•	W550 Exter	ſ
•	W600	_
•	W600 Fixed v	٨
•	W600 Exter	r
•	T320W	-
	TIG T320W PLASMA	
•	CB200	-
	CB200 Servo Push	
•	Servo Push	F
	Collaborative	2
•	CR360/500	
•	CR501W	-
	Fume Extra	
	350S	
•	500S	-
	W550	
•	GC360/500 Cobot F	
•	WG501 Cobot Fur	1
•	Fume Extractio	
	Anti-collisic	
	External anti-co	
•	Hollow anti-co	
	Welding gu	
	MTCS2000	
•	MTCS3000	

nal nal nal	6-10 11-15 16-20 21-25 26-30 31-35 36-40 41-45 46-50 51-55
nal	
	- 66-70
Pull System	
ull Gun	
Torches Syste	79
tion Torch	01.05
me Extraction Torch- e Extraction Torch- Device	- 86-90 -91-95 -96 -97
n device Ilision device	- 99
ision device	
n cleace	101-102 103-104



## **ROBOT 350S**

**Air-Cooled Robotic Torch** 



# flexible cables ensure welding stability.

#### **PRODUCT ADVANTAGES**

- Strong and durable, without fear of collision
- Anti-collision device made of high-strength aviation aluminum alloy to ensure accurate "reset accuracy"
- Convenient installation and simple operation
- Standardized parts reduce maintenance costs
- Available for all hollow welding robots



Torch 350S is equipped with the all-enclosed Anti-collision iHIT mini. With a compact structure, it can adapt to a wider welding range. The interchangeable torch head, high precision resetting, and highly

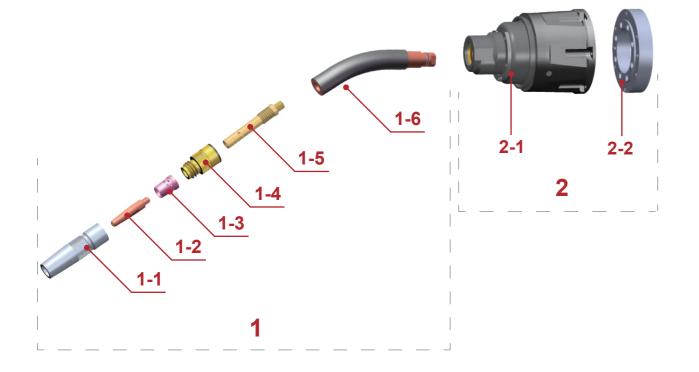
#### **SPECIFICATIONS**

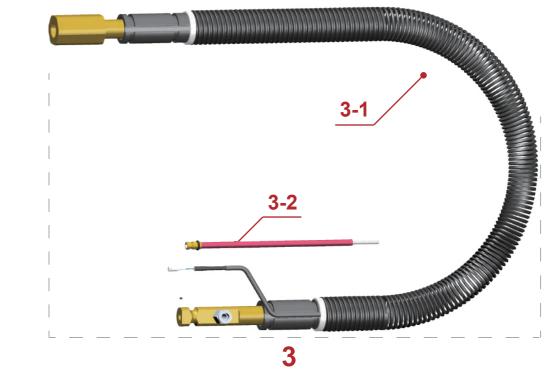
poling mode: Air-cooled
ated value: 350A CO2/300A,MIXED GAS
uty cycle: 100%
iameter of welding wires: 0.8-1.2mm
ngle of gun_neck: 35°
stant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm

1

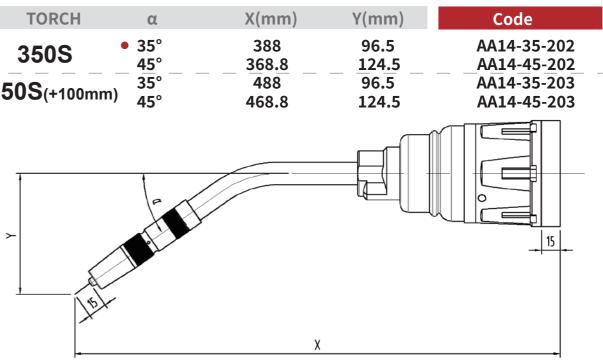


# • **ROBOT 350S Air Cooled**





ТСР		
TORCH	α	X(mm)
350S	35° 45°	388 368.8
350S(+100mm)	35° 45°	488 468.8



- 1-1 Gas nozzle
  - 1-2 Contact tip
  - 1-3 Gas diffuser
  - **1-4 Insulator**
  - 1-5 Guide rod
  - 1-6 Torch head

- 2-1 Anti collision device 2-2 Flange
- 3-1 Cable 3-2 Liner





# • **ROBOT 350S** Ordering information

	Complete	
	Purchase number	Description
	BB07-2087-01	Robot welding gun/PAN rear interface
	Purchase number	Description
1-6 Torch head	<ul> <li>AA14-35-202</li> <li>AA14-35-203</li> <li>AA14-45-202</li> <li>AA14-45-203</li> </ul>	PAN Torch head/35 °/Standard PAN Torch head/35 °/Long+100mm PAN Torch head/45 °/Standard PAN Torch head/45 °/Long+100mm
1-5 Guide rod	• AE11-13-001 AE11-13-002 AE11-13-003 AE11-13-004	PAN guide rod/L=73.5/H62 PAN guide rod/L=68.5/H62 PAN guide rod/L=73.5/T1 PAN guide rod/L=68.5/T1
1-4 Insulator	ICS6605	PAN Insulator
1-3 Gas diffuser	ICF0976-01	Ceramic gas diffuser
1-2 Contact tip	XCU0746-78 XCU0746-80 • XCU0746-82 XCU0747-78 XCU0747-80 XCU0747-82	0.8/M6*45/Cr-Zr-Cu 1.0/M6*45/Cr-Zr-Cu 1.2/M6*45/Cr-Zr-Cu 0.8/M6*40/Cr-Zr-Cu 1.0/M6*40/Cr-Zr-Cu 1.2/M6*40/Cr-Zr-Cu
1-1 Gas nozzle	AB51-21-001     AB51-21-002     AB51-21-003     AB51-21-004     AB51-21-005     AB51-21-007	Tapered gas nozzle/Φ13/L=73 Tapered gas nozzle/Φ13/L=64 Tapered gas nozzle/Φ13/L=70 Straight tube nozzle/Φ16/L=73 Straight tube nozzle/Φ16/L=64 Bottle spray/Φ10/L=73

## 2-1 Anti collision Purchase number device

#### iHIT mini hollow anti-collision device BA02-30-801



Size: Maxim Weight: app **Trigger pres** 

Maximum of

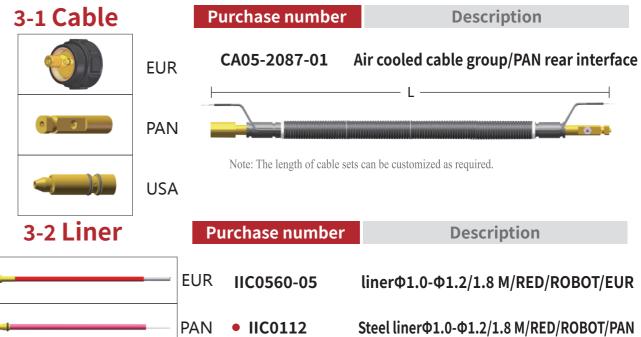
Instant stop

Repeatabili Safety switc

## 2-2 Flange

#### **Customized conversion flange** AF06-85-001

Note: Flange interface can be customized as required.





Description

#### Technical Parameter

num outer diameter83mm,height90mm	
proximately 1100 g	
ssure: approximately 5KG in the X and Y axis directions,	
and approximately 45KG in the Z axis direction	
offset: approximately 10 ° in the X and Y planes;	
Approximately 5mm in the Z plane	
o: The deviation between X axis and Y axis is around1.5°	
The deviation of the Z axis is around 1mm	
ty: less than 0.3mm (at 300mm from the robot flange)	
ch: 12V DC 2A	

#### Purchase number

Description

number	Description
number	Description
0-05	linerФ1.0-Ф1.2/1.8 M/RED/ROBOT/EUR
112	Steel linerФ1.0-Ф1.2/1.8 M/RED/ROBOT/PAN



# ROBOT 500S

**Air-Cooled Robotic Torch** 



- strong and durable, without fear of collision
- Anti-collision device made of high-strength aviation aluminum alloy to ensure accurate "reset accuracy"
- Convenient installation and simple operation
- Standardized parts reduce maintenance costs
- Available for all hollow welding robots

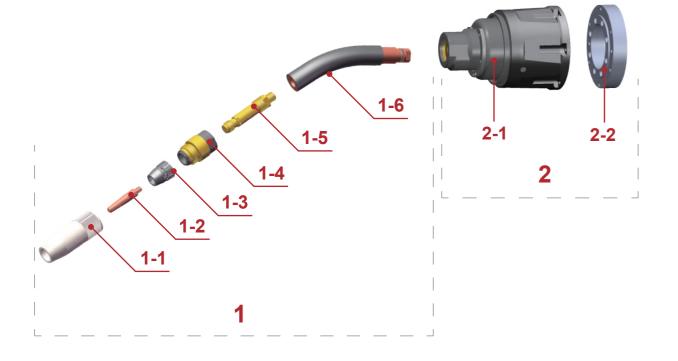
Torch 500S is equipped with the all-enclosed Anti-collision iHIT mini. With a compact structure, it can adapt to a wider welding range. The interchangeable torch head, high precision resetting, and highly flexible cables ensure welding stability.

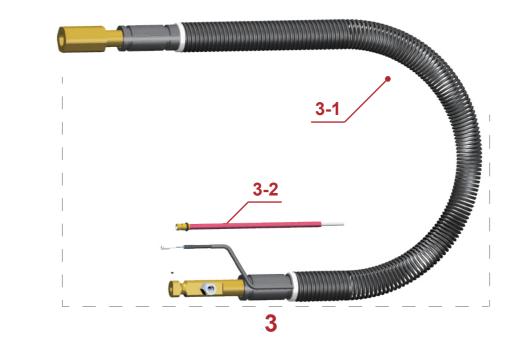


poling mode: Air-cooled
ated value: 500A CO2/400A , MIXED GAS
uty cycle: 100%
iameter of welding wires: 1.2-1.6mm
ngle of gun neck: 35°
stant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm



# • **ROBOT 500S Air Cooled**





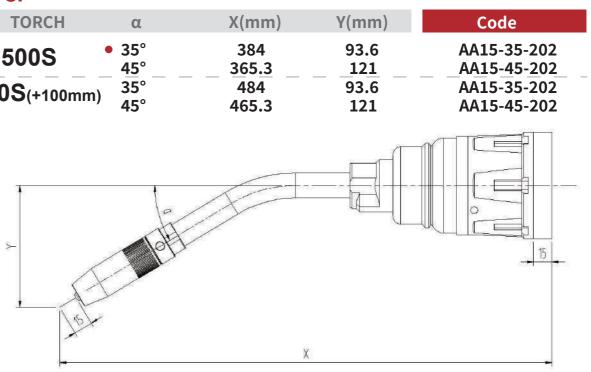
1-1	Gas	nozzle

- 1-2 Contact tip
- 1-3 Gas diffuser
- **1-4 Insulator**
- 1-5 Guide rod
- 1-6 Torch head

• 2-1 Anti collision device 2-2 Flange

• 3-1 Cable 3-2 Liner

ТСР		
TORCH	α	X(mm)
500S •	35° 45°	384 365.3
500S(+100mm)	35° 45°	484 465.3







# • **ROBOT 500S** Ordering information

	Complete	
	Purchase number	Description
	BB08-2087-01	Robot welding gun/PAN rear interface
01-50	Purchase number	Description
1.0	• AA15-35-202	PAN Torch head/31 °/Standard
1-6	AA15-35-203	PAN Torch head/31 °/Long+100mm
Torch head	AA15-45-202	PAN Torch head/45 °/Standard
	AA15-45-203	PAN Torch head/45 °/Long+100mm
1-5 Guide rod	• AE11-15-002 AE11-15-001	PAN guide rod/L=68.5/H62 PAN guide rod/L=68.5/T1
Guide i du		<b>o</b> <i>i i</i>
1-4 Insulator	ICS6602	PAN Insulator
1-3 Gas diffuser	<ul> <li>ICF0031 ICF0977</li> </ul>	Bakelite gas diffuser Ceramic gas diffuser
	XCU0746-78	0.8/M6*45/Cr-Zr-Cu
	XCU0746-80	1.0/M6*45/Cr-Zr-Cu
1-2	M6 • XCU0746-82	1.2/M6*45/Cr-Zr-Cu
Contact tin	XCU0747-78	0.8/M6*40/Cr-Zr-Cu
45	XCU0747-80	1.0/M6*40/Cr-Zr-Cu
	XCU0747-82	1.2/M6*40/Cr-Zr-Cu
1-1 Gas nozzle	<ul> <li>ICS0697 ICS0697-01</li> </ul>	Tapered gas nozzle/Φ15/L=70 Straight tube nozzle/Φ21/L=70

#### 2-1 Anti collision Purchase number device BA02-30-801

#### Technical Parameter

Size: Maximu Weight: app Trigger press

Maximum of

Instant stop:

Repeatability Safety switch

#### Purchase number

#### **Customized conversion flange** AF06-85-001

Note: Flange interface can be customized as required.

# 3-1 Cable EUR

2-2 Flange



## 3-2 Liner





#### Description

## iHIT mini hollow anti-collision device

um outer diameter83mm,height90mm
roximately 1100 g
sure: approximately 5KG in the X and Y axis directions,
and approximately 45KG in the Z axis direction
ffset: approximately 10 ° in the X and Y planes;
Approximately 5mm in the Z plane
: The deviation between X axis and Y axis is around1.5°
The deviation of the Z axis is around 1mm
ty: less than 0.3mm (at 300mm from the robot flange)
h: 12V DC 2A

Description

Purchase number

Description

#### Air cooled cable group/PAN rear interface CA06-2087-01



Note: The length of cable sets can be customized as required.

## Purchase number Description linerФ1.2-Ф1.6/1.8 M/BLACK/ROBOT/EUR Steel liner 01.2-01.6/1.8 M/BLACK/ROBOT/PAN



## **ROBOT 350D** Air-Cooled Robotic Torch

The Robot 350D Welding gun is an easy-to-operate robotic gas protection torch with compact structure and stable performance, The welding gun ensures continuous precision welding, and the replaceable neck reduces equipment downtime and maintenance cost. The high-quality cable assembly ensures the long service life of the system.

#### PRODUCT ADVANTAGES

- Convenient installation and simple operation
- Standardized parts reduce maintenance costs
- Available for all hollow welding robots

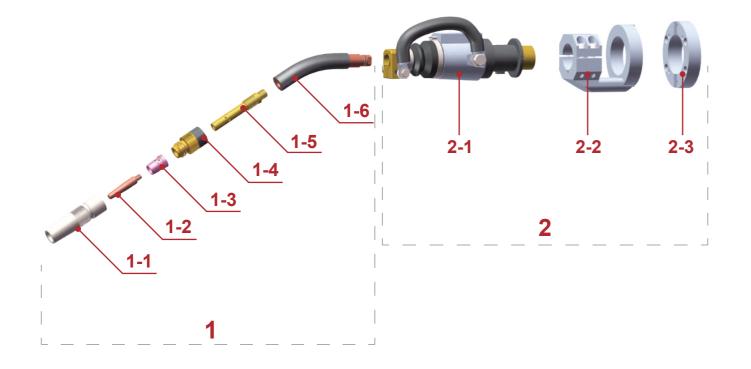
SP Coo Rate Duty Diar Ang Insta

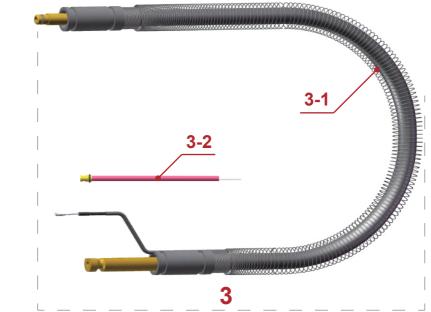


oling mode: Air-cooled
ted value: 350A CO2/300A , MIXED GAS
ty cycle: 60%
meter of welding wires: 0.8-1.2mm
gle_of_gun_neck: 31°
ant stop: The deviation between X axis and Y axis is around4°
The deviation of the Z axis is around 1mm



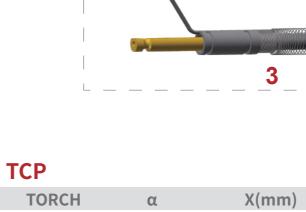
# • **ROBOT 350D Air Cooled**



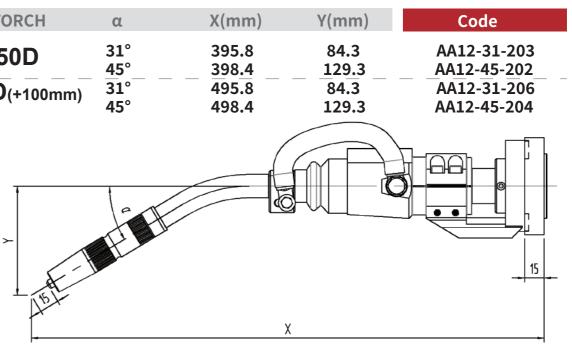


- 1-1 Gas nozzle
  - 1-2 Contact tip
  - 1-3 Gas diffuser
  - **1-4 Insulator**
  - 1-5 Guide rod
  - 1-6 Torch head

- 2-1 Anti collision device
  - 2-2 bracket
  - 2-3 Flange
- 3-1 Cable 3-2 Liner



TORCH	α	X(mm)
350D	31° 45°	395.8 398.4
350D(+100mm)	31° 45°	495.8 498.4







# • **ROBOT 350D** Ordering information

	Complete Purchase number	Description
	BB05-2100-01	Robot welding gun/PAN rear interface
	Purchase number	Description
1-6 Torch head	<ul> <li>AA12-31-203</li> <li>AA12-31-205</li> <li>AA12-45-202</li> <li>AA12-45-204</li> </ul>	PAN Torch head/31 °/Standard PAN Torch head/31 °/Long+100mm PAN Torch head/45 °/Standard PAN Torch head/45 °/Long+100mm
1-5 Guide rod	• AE11-13-001 AE11-13-002 AE11-13-003 AE11-13-004	PAN guide rod/L=73.5/H62 PAN guide rod/L=68.5/H62 PAN guide rod/L=73.5/T1 PAN guide rod/L=68.5/T1
1-4 Insulator	ICS6605	PAN Insulator
1-3 Gas diffuser	ICF0976-01	Ceramic gas diffuser
1-2 Contact tip	XCU0746-78 XCU0746-80 • XCU0746-82 XCU0747-78	0.8/M6*45/Cr-Zr-Cu 1.0/M6*45/Cr-Zr-Cu 1.2/M6*45/Cr-Zr-Cu 0.8/M6*40/Cr-Zr-Cu
45	XCU0747-80 XCU0747-82	1.0/M6*40/Cr-Zr-Cu 1.2/M6*40/Cr-Zr-Cu
1-1 Gas nozzle	<ul> <li>AB51-21-001         <ul> <li>AB51-21-002</li> <li>AB51-21-003</li> <li>AB51-21-004</li> <li>AB51-21-005</li> <li>AB51-21-007</li> </ul> </li> </ul>	Tapered gas nozzle/Φ13/L=73 Tapered gas nozzle/Φ13/L=64 Tapered gas nozzle/Φ13/L=70 Straight tube nozzle/Φ16/L=73 Straight tube nozzle/Φ16/L=64 Bottle spray/Φ10/L=73

#### 2-1 Anti collision device

2-2 Bracket



#### BA03-10-001

Technical Parameter Size: Maximum outer diameter175mm, height50mm Weight: approximately 850 g Trigger pressure: approximately 5KG in the X and Y axis directions, and approximately 45KG in the Z axis direction Maximum offset: approximately 10 ° in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around4° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: 30V DC 0.1A Purchase number Description AF07-030-01 Integrated U-shaped bracket/short/30 ° hole position AF07-045-01 Integrated U-shaped bracket/short/45 ° hole position Z-bracket/5 °/equipped with 22 hole spacing AF07-105-02 AF07-105-03 Z-bracket/5 °/equipped with 28 hole spacing Z-bracket/5 °/equipped with 34 hole spacing AF07-105-04 AF07-105-05 Z-bracket/5 °/equipped with 42 hole spacing AF07-105-06 Z-shaped bracket body/5 °/with cross hole spacing Purchase number Description

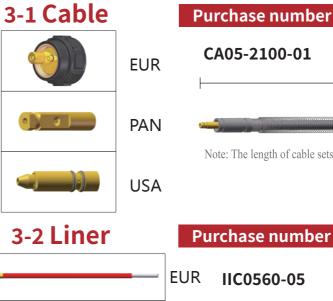


## 2-3 Flange



AF06-75-001

AF06-60-001



PAN

**Purchase number** Description IIC0560-05 linerΦ1.0-Φ1.2/1.8 M/RED/ROBOT/EUR Steel linerΦ1.0-Φ1.2/1.8 M/RED/ROBOT/PAN • IIC0112



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			<b>U</b> 1	

Description

#### HIT100/Integrated/Double Braided

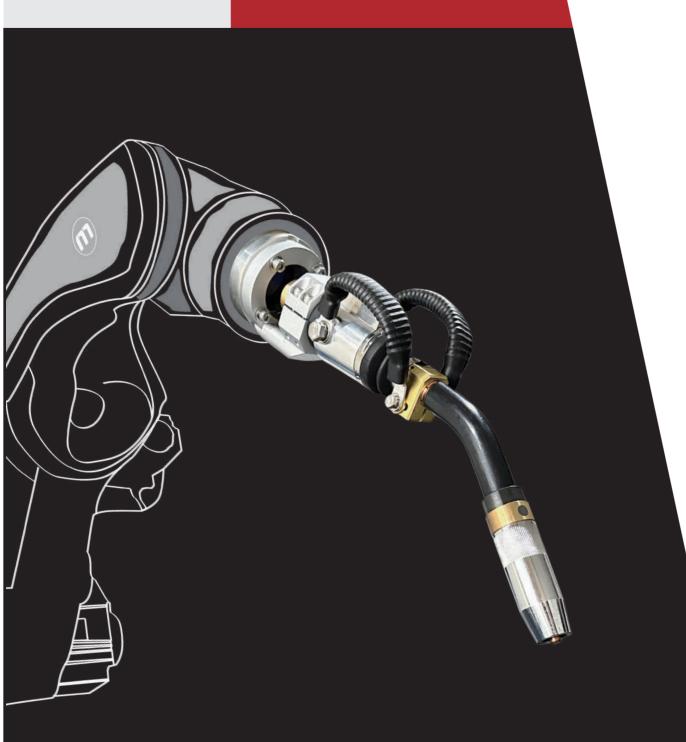
#### **Built in flange/customized External flange/customized**

Note: Flange interface can be customized as required.

Description Air cooled cable assembly/PAN rear interface Note: The length of cable sets can be customized as required.



## **ROBOT 500D** Air-Cooled Robotic Torch



The Robot 500D Welding gun is an easy-to-operate robotic gas protection torch with compact structure and stable performance, The welding gun ensures continuous precision welding, and the replaceable neck reduces equipment downtime and maintenance cost. The high-quality cable assembly ensures the long service life of the system.

#### PRODUCT ADVANTAGES

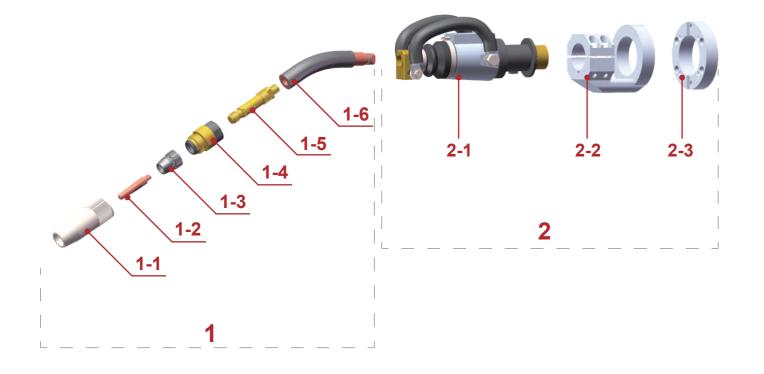
- Convenient installation and simple operation
- Standardized parts reduce maintenance costs
- Available for all hollow welding robots

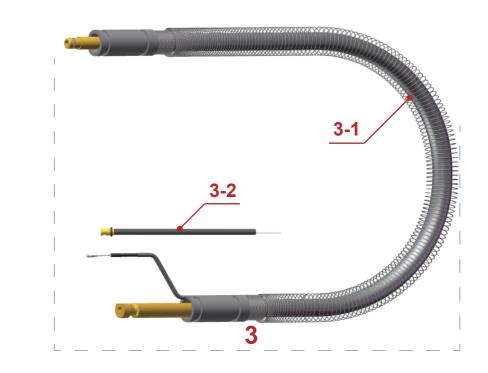


pling mode: Air-cooled
ed value: 500A CO2/400A MIXED GAS
ty cycle: 60%
meter of welding wires: 1.2-1.6mm
gle of gun neck: 31°
ant stop: The deviation between X axis and Y axis is around4
The deviation of the Z axis is around 1mm



# • **ROBOT 500D Air Cooled**

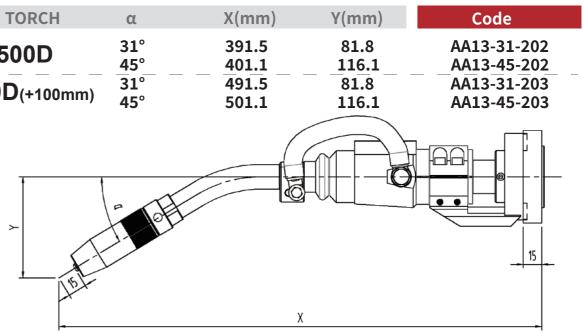




- 1-1 Gas nozzle
  - 1-2 Contact tip
  - 1-3 Gas diffuser
  - **1-4 Insulator**
  - 1-5 Guide rod
  - 1-6 Torch head

- 2-1 Anti collision device
  - 2-2 Bracket
  - 2-3 Flange
- 3-1 Cable
  - 3-2 Liner

ТСР		
TORCH	α	X(mm)
500D	31° 45°	391.5 401.1
<b>500D</b> (+100mm)	31° 45°	491.5 501.1







# • **ROBOT 500D** Ordering information

			0
		Complete	
		Purchase number	Description
		BB06-2100-01	Robot welding gun/PAN rear interface
		Accessory	
		Purchase number	Description
		• AA13-31-202	PAN Torch head/31 °/Standard
<u>1</u> -6		AA13-31-203	PAN Torch head/31 °/Long+100mm
Torch head		AA13-45-202	PAN Torch head/45 °/Standard
L		AA13-45-203	PAN Torch head/45 °/Long+100mm
<b>. .</b> [			
1-5		• AE11-15-002	PAN guide rod/L=68.5/H62
Guide rod		AE11-15-001	PAN guide rod/L=68.5/T1
• •			
1-4 Insulator		ICS6602	PAN Insulator
L			
1-3		• ICF0031	Bakelite gas diffuser
Gas diffuser		ICF0977	Ceramic gas diffuser
Г		XCU0746-78	0.8/M6*45/Cr-Zr-Cu
1 2		XCU0746-80	1.0/M6*45/Cr-Zr-Cu
1-2	<b>———</b> —— ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	• XCU0746-82	1.2/M6*45/Cr-Zr-Cu
Contact tip	45	XCU0747-78	0.8/M6*40/Cr-Zr-Cu
		XCU0747-80	1.0/M6*40/Cr-Zr-Cu
		XCU0747-82	1.2/M6*40/Cr-Zr-Cu
Γ			
1-1	Φ15	• ICS0697	Tapered gas nozzle/Ф15/L=70
Gas nozzle		ICS0697-01	Straight tube nozzle/ $\Phi$ 21/L=70
	70		<b>.</b>

#### 2-1 Anti collision device

2-2 Bracket

2-3 Flange



#### BA03-10-004



Size: Maximum outer diameter175mm,height50mm Weight: approximately 910 g Trigger pressure: approximately 5KG in the X and Y axis directions, and approximately 45KG in the Z axis direction Maximum offset: approximately 10 ° in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around4° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: 30V DC 0.1A Description Integrated U-shaped bracket/short/30° hole position AF07-030-01 AF07-045-01 Integrated U-shaped bracket/short/45° hole position AF07-105-02 Z-bracket/5 °/equipped with 22 hole spacing Z-bracket/5 °/equipped with 28 hole spacing AF07-105-03 Z-bracket/5 °/equipped with 34 hole spacing AF07-105-04 AF07-105-05 Z-bracket/5 °/equipped with 42 hole spacing AF07-105-06 Z-shaped bracket body/5 °/with cross hole spacing Description **Built in flange/customized** AF06-75-001 **External flange/customized** AF06-60-001 Note: Flange interface can be customized as required. Description Air cooled cable assembly/PAN rear interface

**Purchase number** Purchase number Purchase number CA06-2100-01



PAN



Im	hor
Im	nei

Description

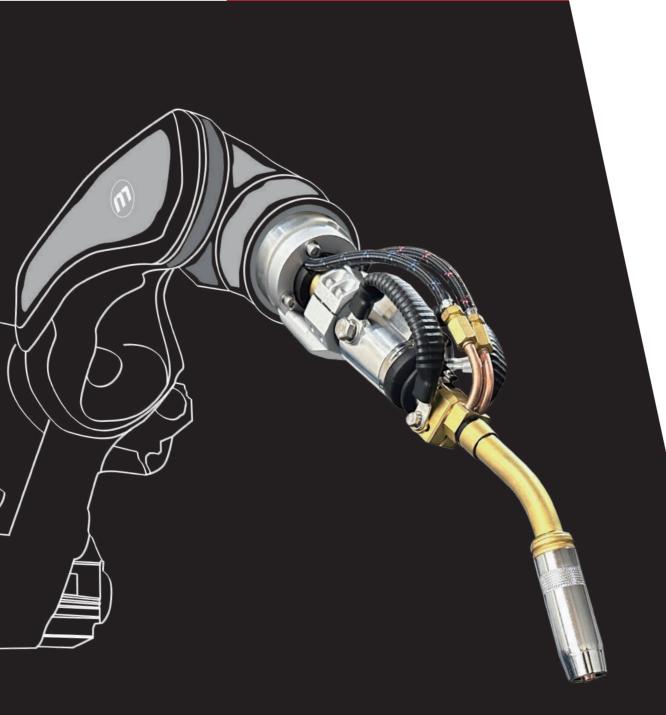
#### HIT100/Integrated/Double Braided

Note: The length of cable sets can be customized as required.

Irchase number	Description	
	-	
IIC0534-05	Black linerΦ1.2-Φ1.6/1.8 M/ROBOT/EUR	
• IIC0113	Black steel linerФ1.2-Ф1.6/1.8 M/ROBOT/PAN	
	20	)



## **ROBOT 501W** Water-Cooled Robotic Torch



The Robot 501W welding gun is a simple, economical, and durable liquid cooled torch. It's reliable and suitable for robotic workspaces with economical equipment and flexibility for system working time and maintenance time, The durable structure of the welding torch can achieve extremely high welding stability, shorten equipment maintenance time, and reduce maintenance costs. Has a high degree of process safety and is competent for the welding between various materials.

#### **PRODUCT ADVANTAGES**

- Convenient installation and simple operation
- Standardized parts reduce maintenance costs
- Available for all hollow welding robots

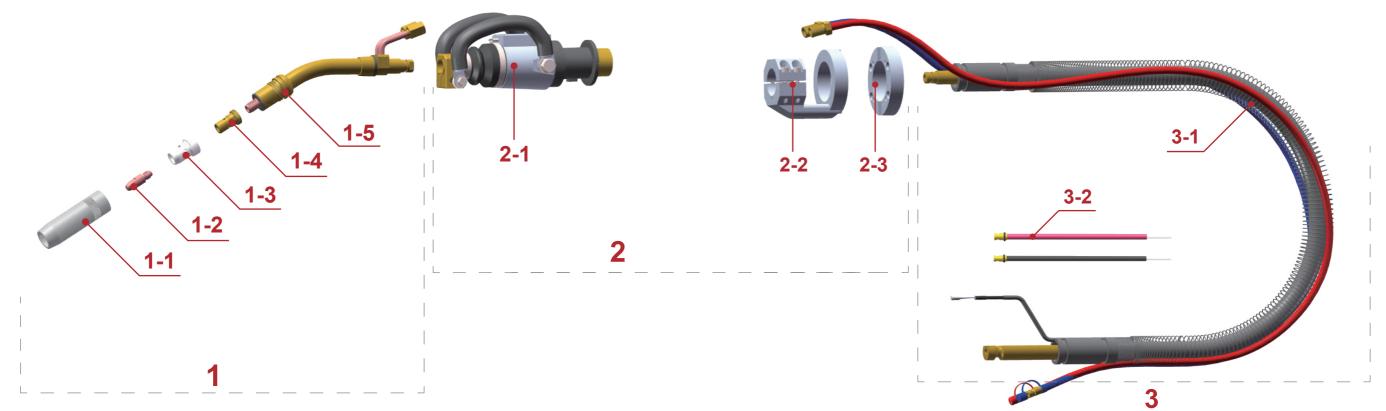
Cooli Ratec Duty Diam Angle Instant



ling mode: Water cooled
d value: 500A CO2/450A MIXED GAS
/ cycle: 100%
neter of welding wires: 0.8-1.2mm
le of gun neck: 31°
nt stop: The deviation between X axis and Y axis is around4
The deviation of the Z axis is around 1mm



# • **ROBOT 501W** Water Cooled

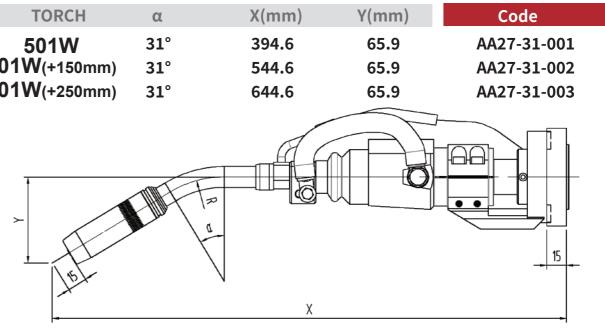


- 1-1 Gas nozzle
  - 1-2 Contact tip
  - 1-3 Gas diffuser
  - **1-4** Contact tip holder
  - 1-5 Torch head

- 2-1 Anti collision device
  - 2-2 U-shaped bracket
  - 2-3 Flange
- 3-1 Cable
  - 3-2 Liner

#### TCP

_		
TORCH	α	X(mm)
501W	<b>31°</b>	394.6
501W(+150mm)	<b>31°</b>	544.6
501W(+250mm)	<b>31°</b>	644.6





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# • **ROBOT 501W** Ordering information

		Complete	
Same and the second sec		Purchase numbe	r Description
		BB52-2100-01	Robot welding gun/PAN rear interface
	/	Accessory	
		Purchase numbe	r Description
1-5 Torch head		<ul> <li>AA27-31-001</li> <li>AA27-31-002</li> <li>AA27-31-003</li> </ul>	Water-cooled Torch head/31 °/Standard Water-cooled Torch head/31 °/Long+150mm Water-cooled Torch head/31 °/Long+250mm
1-4 Guide rod		AE11-16-003	Guide rod/M8/25mm
1-3 Gas diffuser		ICF0524	Ceramic gas diffuser
1-2 Contact tip	<b>1</b> M8 30 <b>1</b> M8	XCU0005-78 XCU0005-80 • XCU0005-82 XCU0005-84 XCU0005-86	0.8/M8*30/Cr-Zr-Cu 1.0/M8*30/Cr-Zr-Cu 1.2/M8*30/Cr-Zr-Cu 1.4/M8*30/Cr-Zr-Cu 1.6/M8*30/Cr-Zr-Cu
1-1 Gas nozzle	Φ16 <u></u> 	AB51-24-101	Outer nozzle/Φ16/L=70

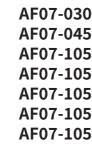
#### 2-1 Anti collision device





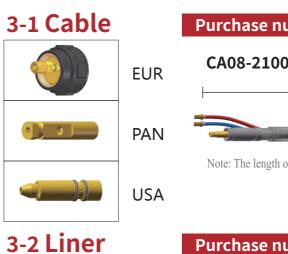
2-2 Bracket

**Technical Parameter** Size: Maximum outer diameter175mm,height50mm Weight: approximately 910 g Trigger pressure: approximately 5KG in the X and Y axis directions, and approximately 45KG in the Z axis direction Maximum offset: approximately 10 ° in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around4° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: 30V DC 0.1A Description Integrated U-shaped bracket/short/30° hole position AF07-030-01 AF07-045-01 Integrated U-shaped bracket/short/45 ° hole position AF07-105-02 Z-bracket/5 °/equipped with 22 hole spacing AF07-105-03 Z-bracket/5 °/equipped with 28 hole spacing Z-bracket/5 °/equipped with 34 hole spacing AF07-105-04 AF07-105-05 Z-bracket/5 °/equipped with 42 hole spacing AF07-105-06 Z-shaped bracket body/5 °/with cross hole spacing Description **Built in flange/customized** AF06-75-001 **External flange/customized** AF06-60-001 Note: Flange interface can be customized as required. Description CA08-2100-01 Water-cooled cable assembly/PAN rear interface



# 2-3 Flange

**Purchase number** Purchase number Purchase number



#### IIC0560-0 EUR IIC0534-0 IIC0112 PAN **IIC0113**



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Im	DEI

Description

#### HIT100/Integrated/Double Braided



Note: The length of cable sets can be customized as required.

umbei	Description
05	LinerФ1.2-Ф1.6/1.8 M/Red/ROBOT/EUR
05	LinerФ1.2-Ф1.6/1.8 M/Black/ROBOT/EU
2	Steel linerФ1.2-Ф1.6/1.8 M/Red/ROBOT/PAN
3	Steel liner 01.2-01.6/1.8 M/Black/ROBOT/PA



**ROBOT W350** External Water-Cooled Robotic Torch



annin (11)

- Two-circuit liquid-cooling torch head, high-efficient and stable
- High-precision independent bumper, safety guarantee
- Optimized structure, concise and durable
- Individual shielding gas supply, with no gas loss

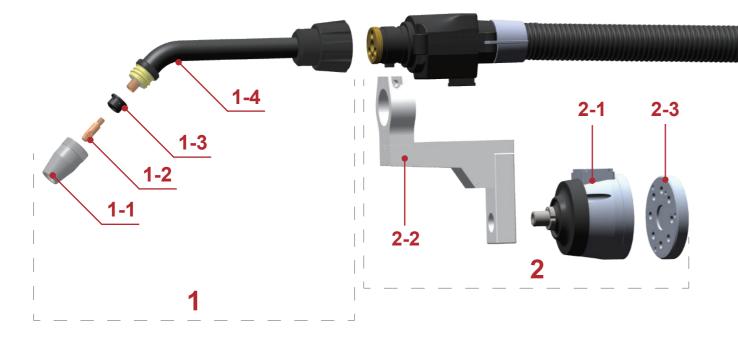
The ROBOT W350 welding torch adopts a double circuit liquid cooling structure to improve the cooling effect of the welding torch in long-term and high-load welding, which can shorten the downtime, extend the service life of wearing parts, greatly improving the reliability of the product. The product design is lightweight and can be applied to robots with different load capacities. The compact torch head structure ensures better welding reliability and wider applications.

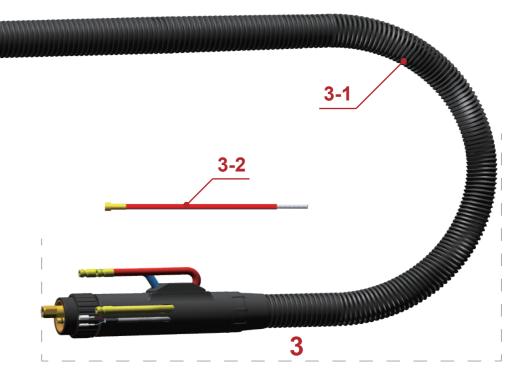


ooling mode: Water-cooled
ated value: 400A CO2/350A MIXED GAS
outy cycle: 100%
Diameter of welding wires: 0.8-1.2mm
ngle of gun neck: 0°、22°、35°、45°
stant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm



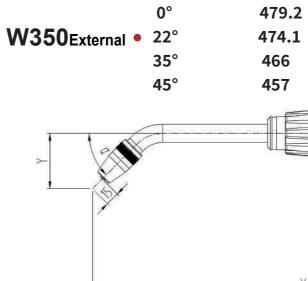
# • ROBOT W350 External Water Cooled





- 1-1 Gas nozzle 1-2 Contact tip
  - 1-3 Gas diffuser
  - 1-4 Torch head

- 2-1 Anti collision device
  - 2-2 Torch bracket
  - 2-3 Flange
- 3-1 Cable
  - 3-2 Liner



α

**0°** 

TCP

TORCH



X(mm)	Y(mm)	Code
479.2	0	AA32-00-001
474.1	26.5	AA32-22-001
466	43.7	AA32-35-001
457	57	AA32-45-001
Х		



# ROBOT W350 External Ordering information

Complete

Purchase number

Description





BA01-20-• BA01-20-BA01-20-



2-2 Bracket

2-3 Flange

3-1 Cable

1 0 <u>—</u>

3-2 Liner

**Technical Par** Size: Maximu Weight: appro Trigger pressu

Purchase n

**Purchase number** 

AF06-86-001

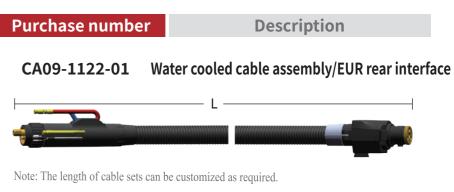
Note: Flange interface can be customized as required.

Purchase	n

EUR

PAN

USA



#### Purchase number

IIC0560-05 EUR IIC0534-05

	BB52-1225-01	Robot welding gun/EUR rear interface
	Purchase number	Description
	AA32-00-001	Torch head 0°
1-4	• AA32-22-001	Torch head 22°
Torch head	AA32-35-001	Torch head 35°
	AA32-45-001	Torch head 45°
1-3 Gas diffuser	ICF0045	Gas diffuser
	XCU0004-60	1.0A/M6*28/Cr-Zr-Cu
	XCU0004-62	1.2A/M6*28/Cr-Zr-Cu
	XCU0004-80	1.0/M6*28/Cr-Zr-Cu
28	• XCU0004-82	1.2/M6*28/Cr-Zr-Cu
1-1 Gas nozzle	• AB51-27-002	Bottle shaped nozzle/Φ14.3/L=41

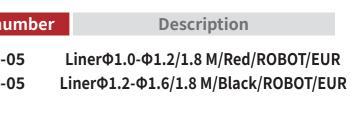
## 29



urchase number	Description			
BA01-20-001 BA01-20-002 BA01-20-003	HIT200/independence/5KG HIT200/independence/10KG HIT200/independence/15KG			
chnical Parameter Size: Maximum outer diameter83mm,height90mm Weight: approximately 810 g Trigger pressure: approximately 10KG in the X and Y axis directions, and approximately 85KG in the Z axis direction Maximum offset: approximately 15 ° in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around1.5° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: 30V DC 0.1A				
urchase number	Description			
AF07-00-402	Customer customization/Z-bracket			

Description

#### External independent flange/customized





## **ROBOT W500** Water-Cooled Robotic Torch

The Robot W500 welding gun is a simple, economical, and durable liquid cooled torch. It's reliable and suitable for robotic workspaces with economical equipment and flexibility for system working time and maintenance time, The durable structure of the welding torch can achieve extremely high welding stability, shorten equipment maintenance time, and reduce maintenance costs. Has a high degree of process safety and is competent for the welding between various materials.

#### PRODUCT ADVANTAGES

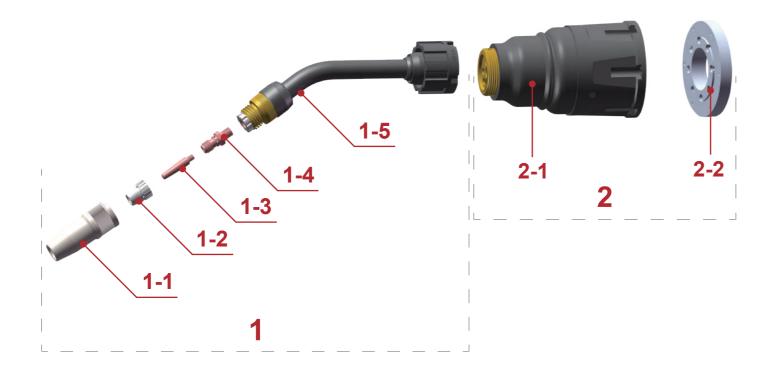
- Convenient installation and simple operation
- Standardized parts reduce maintenance costs
- Available for all hollow welding robots

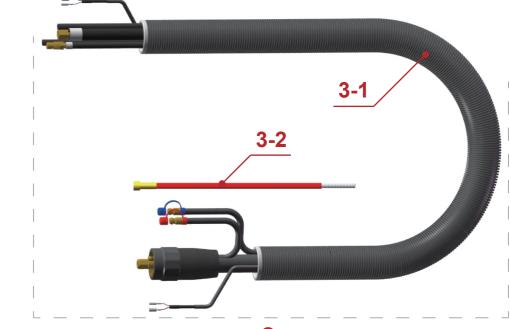


ooling mode: Water-cooled
ated value: 500A CO2/450A MIXED GAS
outy cycle: 100%
iameter of welding wires: 0.8-1.4mm
ngle of gun neck: 22°
stant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm



# ROBOT W500 Water Cooled





ТСР

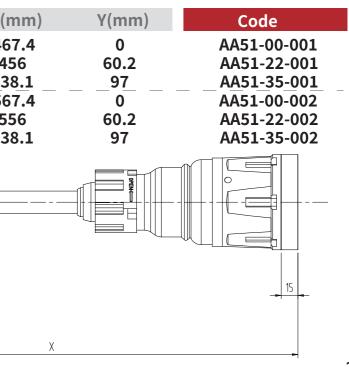
TORCH	α	X(r
W500	0°	46
	• 22°	4
	35°	43
	0°	56
<b>W500</b> (+100mm)	22°	5
	35°	53

- 1-1 Gas nozzle
  - **1-2 Insulator**
  - 1-3 Contact tip
  - **1-4** Contact tip holder
  - 1-5 Torch head

- 2-1 Anti collision device
  2-2 Flange
- 3-1 Cable
   3-2 Liner



3





# • **ROBOT W500** Ordering information

		Complete		
		Purchase number	Description	
		BB55-1910-06	Robot welding gun/EUR rear interface	
		Purchase number	Description	
1-5 Torch head 📣		AA51-00-002 Wa AA51-22-001 W AA51-22-002 Wa AA51-35-001 W	/ater-cooled Torch head/0 °/Standard hter-cooled Torch head/0 °/Long+100mm ater-cooled Torch head/22 °/Standard ter-cooled Torch head/22 °/Long+100mm ater-cooled Torch head/35 °/Standard ter-cooled Torch head/35 °/Long+100mm	
1-4 Guide rod		• AE11-16-010 AE11-16-011	Guide rod/M6 Guide rod/M8	
1-3 Contact tip	■ I M6 40 ■ I M8 30	XCU0747-78 XCU0747-80 • XCU0747-82 XCU0747-84 XCU0747-86 XCU0005-78 XCU0005-80 XCU0005-82 XCU0005-84 XCU0005-86	0.8/M6*40/Cr-Zr-Cu 1.0/M6*40/Cr-Zr-Cu 1.2/M6*40/Cr-Zr-Cu 1.4/M6*40/Cr-Zr-Cu 1.6/M6*40/Cr-Zr-Cu 0.8/M8*30/Cr-Zr-Cu 1.0/M8*30/Cr-Zr-Cu 1.2/M8*30/Cr-Zr-Cu 1.4/M8*30/Cr-Zr-Cu	
1-2 Insulator		<ul> <li>ICF0977 ICF0838</li> </ul>	Insulator/M12 Insulator/M14	
1-1 Gas nozzle 34	80.5	AB51-31-001 AB51-31-002 AB51-31-003 AB51-31-004	Tapered gas nozzle/Φ13/L=80 Tapered gas nozzle/Φ13/L=70 Tapered gas nozzle/Φ15/L=80 Tapered gas nozzle/Φ15/L=70	

#### 2-1 Anti collision device

## **Purchase number**

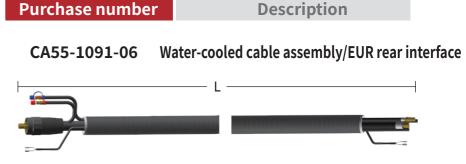
#### BA02-30-501

#### Technical Parameter

Safety switch: DC12V 2A

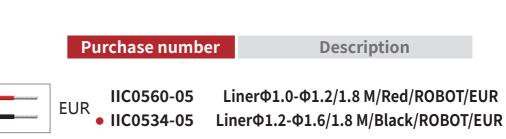
## 2-2 Flange

## 3-1 Cable EUR PAN 3 I USA

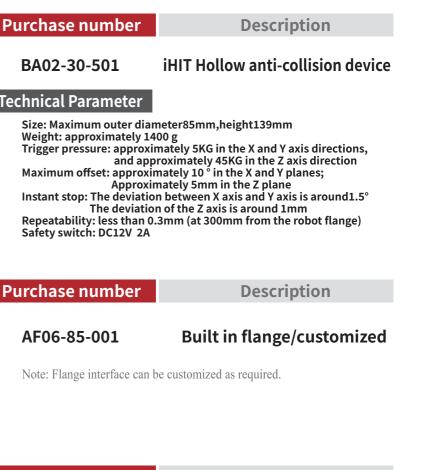


Note: The length of cable sets can be customized as required.

## 3-2 Liner

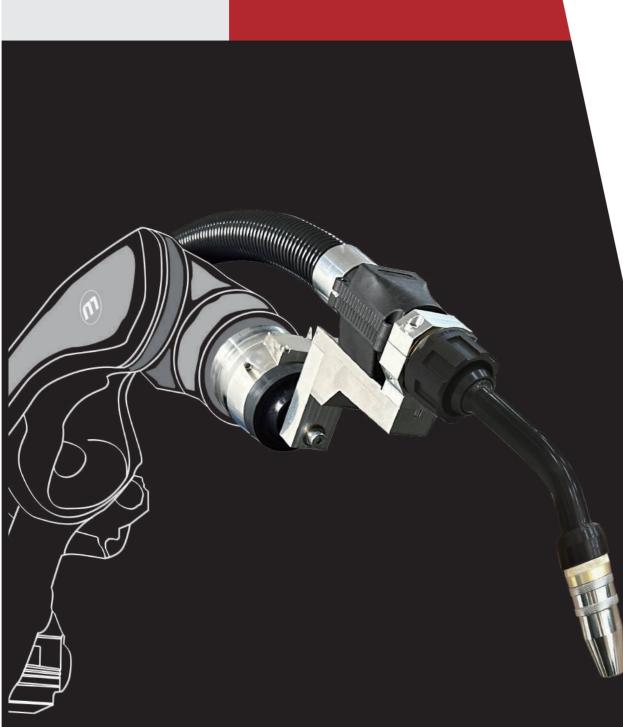








# **ROBOT W500** External Water-Cooled Robotic Torch



The Robot W500 welding gun is a simple, economical, and durable liquid cooled torch. It's reliable and suitable for robotic workspaces with economical equipment and flexibility for system working time and maintenance time, The durable structure of the welding torch can achieve extremely high welding stability, shorten equipment maintenance time, and reduce maintenance costs. Has a high degree of process safety and is competent for the welding between various materials.

#### PRODUCT ADVANTAGES

• Convenient installation and simple operation

• Standardized parts reduce maintenance costs

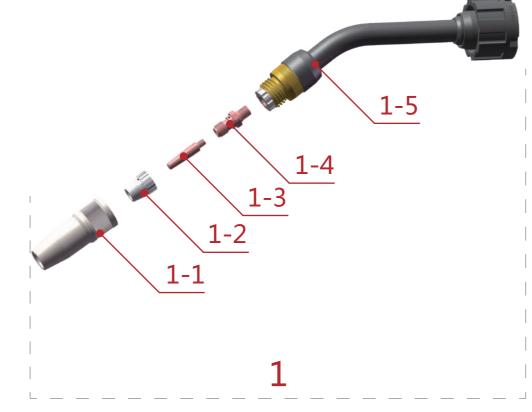
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oling mode: Water-cooled
ted value: 500A CO2/450A , MIXED GAS
ity cycle: 100%
ameter of welding wires: 0.8-1.4mm
gle of gun neck: 22°
tant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm



# • ROBOT W500 External **Water Cooled**

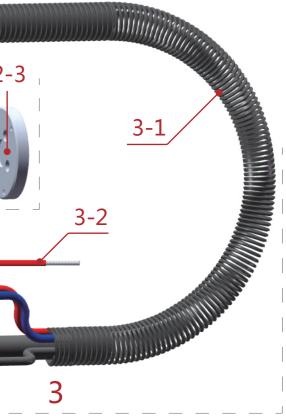


- 1-1 Gas nozzle
  - **1-2 Insulator**
  - 1-3 Contact tip
  - **1-4** Contact tip holder
  - 1-5 Torch head

- 2-1 Anti collision device
  - 2-2 Torch bracket
  - 2-3 Flange
- 3-1 Cable
  - 3-2 Liner

	2	2-1 2-3	3-2	3-1
TCP数据表	L			
枪型	枪颈角度 α	X(mm)	Y(	mm) 枪颈编号
W500External • W500External	<u>35°</u> 0° 22°	545.1 533.5 515.4 645.1 633.5	0 61.1 <u>98.4</u> 0 61.1	AA51-00-001 AA51-22-001 <u>AA51-35-001</u> AA51-00-002 AA51-22-002
(+100mm)	35°	615.4 X	98.4	AA51-35-002







# ROBOT W500 External Ordering information



## Complete

Purchase number	Description
BB55-1910-07	Robot welding gun/EUR rear interface

# 2 1



	2-1			
	Anti collision	1	Purchase number	Description
	device		BA01-20-001 BA01-20-002 BA01-20-003	HIT200/independence/5KG HIT200/independence/10KG HIT200/independence/15KG
			Weight: approximately Trigger pressure: appro and a Maximum offset: appro Appro Instant stop: The deviat The deviat	oximately 10KG in the X and Y axis directions, pproximately 85KG in the Z axis direction oximately 15° in the X and Y planes; oximately 5mm in the Z plane tion between X axis and Y axis is around1.5° tion of the Z axis is around 1mm n 0.3mm (at 300mm from the robot flange)
	2-2 Bracket		Purchase number	Description
1			AF07-00-403	Customer customization/Z-bracket
1	2-3 Flange		Purchase number	Description
			<b>AF06-86-001</b> Note: Flange interface can	<b>External independent flange/customized</b> be customized as required.
	3-1 Cable		Purchase number	Description
	E E	EUR	CA55-1091-07	Water cooled cable assembly/EUR rear interface
		PAN		
		JSA	Note: The length of cable sets	s can be customized as required.
	3-2 Liner		Purchase number	Description
		E	UR • IIC0560-05	LinerФ1.0-Ф1.2/1.8 M/Red/ROBOT/EUR LinerФ1.2-Ф1.6/1.8 M/Black/ROBOT/EUR
				40

		Durahaaa uumhaa	Description
		Purchase number	
		AA51-00-001	Water-cooled Torch head/0 °/Standard
1-5		AA51-00-002	Water-cooled Torch head/0 °/Long+100mm
Torch head		• AA51-22-001	Water-cooled Torch head/22 °/Standard
		AA51-22-002	Water-cooled Torch head/22 °/Long+100mm
		AA51-35-001	Water-cooled Torch head/35 °/Standard
		AA51-35-002	Water-cooled Torch head/35 °/Long+100mm
1-4			
Guide rod		• AE11-16-010	Guide rod/M6
		AE11-16-011	Guide rod/M8
		XCU0747-78	0.8/M6*40/Cr-Zr-Cu
		XCU0747-80	1.0/M6*40/Cr-Zr-Cu
	<b>□</b> ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	• XCU0747-82	1.2/M6*40/Cr-Zr-Cu
1-3		XCU0747-84	1.4/M6*40/Cr-Zr-Cu
<b>Contact tip</b>	40	XCU0747-86	1.6/M6*40/Cr-Zr-Cu
contact tip		XCU0005-78	0.8/M8*30/Cr-Zr-Cu
	± M8	XCU0005-80	1.0/M8*30/Cr-Zr-Cu
	30	XCU0005-82	1.2/M8*30/Cr-Zr-Cu
		XCU0005-84	1.4/M8*30/Cr-Zr-Cu
		XCU0005-86	1.6/M8*30/Cr-Zr-Cu
1-2			Inculator/M12
		<ul> <li>ICF0977 ICF0838</li> </ul>	Insulator/M12
Insulator		ICF0838	Insulator/M14
		• AB51-31-001	Bottle shaped nozzle/Φ13/L=80
1 1		AB51-31-001	Bottle shaped nozzle/Ф13/L=80 Bottle shaped nozzle/Ф13/L=70
1-1	Φ13	AB51-31-002 AB51-31-003	Bottle shaped nozzle/Φ13/L=70
Gas nozzle		AB51-31-003	Bottle shaped nozzle/ $\Phi$ 15/L=80 Bottle shaped nozzle/ $\Phi$ 15/L=70
39	80.5	AD31-31-004	Bottle Shaped hozzle/@13/L=10





## **ROBOT W550** Water-Cooled Robotic Torch



#### **PRODUCT ADVANTAGES**

- Stainless steel torch neck, strong and durable, without fear of collision
- Anti collision made of high-strength aviation aluminum alloy to ensure accurate "reset accuracy"
- Convenient installation and simple operation
- Available for all hollow welding robots

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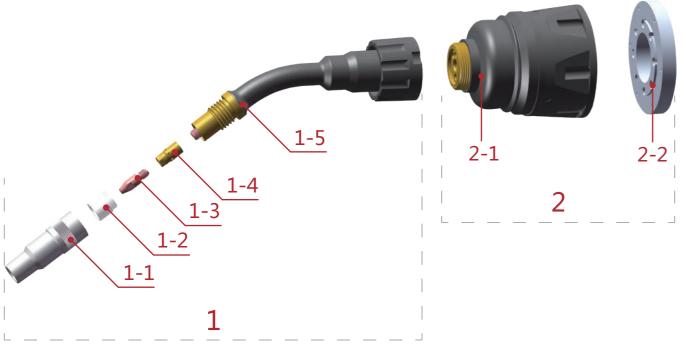


The Robot W550 welding gun is a general industrial robotic liquid cooled torch. It has excellent cooling performance, compact structure and good accessibility ensure continuous precision welding. The interchangeable gun necks shorten equipment downtime and reduces the cost of maintenance, It has a high degree of process safety and is capable of welding work between various materials.

ooling mode: Water-cooled
ated value: 550A CO2/500A MIXED GAS
uty cycle: 100%
ameter of welding wires: 0.8-1.6mm
ngle of gun neck: 22°
stant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm

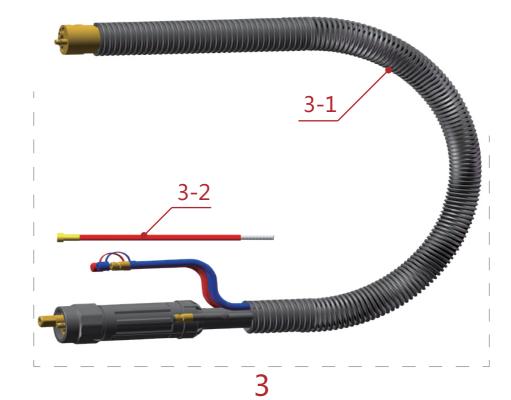


# • **ROBOT W550 Water Cooled**

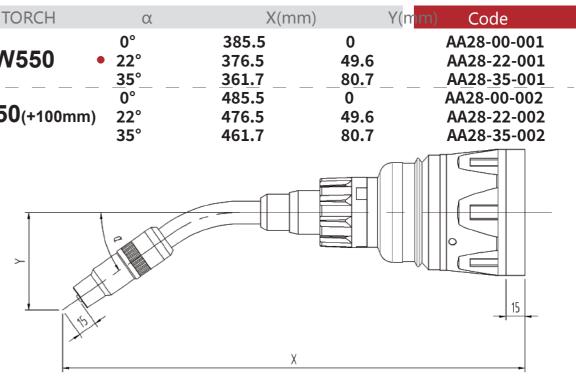


- 1-1 Gas nozzle
  - **1-2 Insulator**
  - 1-3 Contact tip
  - **1-4** Contact tip holder
  - 1-5 Torch head

- 2-1 Anti collision device 2-2 Flange
- 3-1 Cable
  - 3-2 Liner



ТСР		
TORCH	C(	X(m
W550 •	0° 22° 35°	385.5 376.5 361.7
W550(+100mm)	0° 22° 35°	485.5 476.5 461.7







# • **ROBOT W550** Ordering information



## Complete

Purchase number	Description
BB57-1910-06	Robot welding gun/EUR rear interface





2-2 Flange

Purchase n

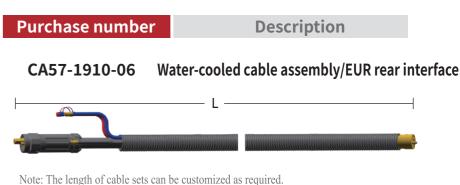
Safety switch: DC12V 2A

#### **Purchase number**

#### **Built in flange/customized** AF06-100-01

Note: Flange interface can be customized as required.

# **3-1 Cable** EUR



#### 3-2 Liner





PAN

USA

Description Purchase number AA28-00-001 Water-cooled Torch head/0 °/Standard Water-cooled Torch head/0 °/Long+100mm AA28-00-002 1-5 Water-cooled Torch head/22 °/Standard AA28-22-001 **Torch head** AA28-22-002 Water-cooled Torch head/22 °/Long+100mm Water-cooled Torch head/35 °/Standard AA28-35-001 Water-cooled Torch head/35 °/Long+100mm AA28-35-002 1-4 Guide rod/M8/Cr-Zr-Cu • AE11-12-003 **Guide rod** Guide rod/M8/Brass AE11-12-004 23.2 0.8/M8\*30/Cr-Zr-Cu XCU0005-78 1-3 XCU0005-80 1.0/M8\*30/Cr-Zr-Cu **Contact tip** • XCU0005-82 1.2/M8\*30/Cr-Zr-Cu XCU0005-84 1.4/M8\*30/Cr-Zr-Cu XCU0005-86 1.6/M8\*30/Cr-Zr-Cu 1-2 AG07-20-001 Insulator Insulator AB51-27-001 Bottle shaped nozzle/ $\Phi$ 15.5/L=72 • AB51-27-003 Bottle shaped nozzle/ $\Phi$ 15.5/L=75.5 1-1 Bottle shaped nozzle/ $\Phi$ 15.5/L=77 AB51-27-005 Gas nozzle AB51-27-006 Bottle shaped nozzle/ $\Phi$ 13/L=75.5 Bottle shaped nozzle/ $\Phi$ 13/L=77 75.5 AB51-27-007 Tapered gas nozzle/ $\Phi$ 15.5/L=75.5 AB51-27-008 Tapered gas nozzle/Φ15.5/L=72.5 AB51-27-009

44



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	DEI

Description



Description

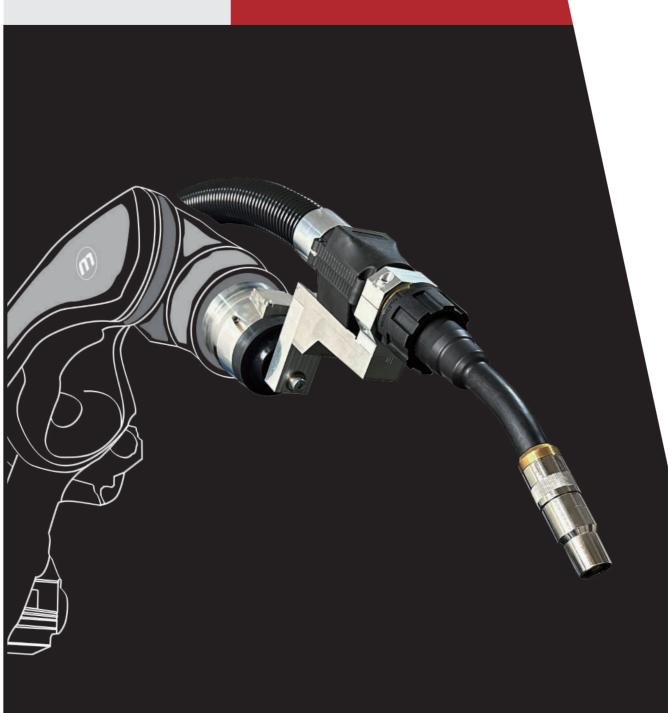
	-
Jm	ber
	DEI

Description

Liner  $\Phi$ 1.0- $\Phi$ 1.2/1.8 M/Red/ROBOT/EUR Liner Φ1.2-Φ1.6/1.8 M/Black/ROBOT/EUR



**ROBOT W550** External Water-Cooled Robotic Torch



#### **PRODUCT ADVANTAGES**

- Stainless steel torch neck, strong and durable, without fear of collision
- Anti collision made of high-strength aviation aluminum alloy to ensure accurate "reset accuracy"
- Convenient installation and simple operation

The Robot W550 welding gun is a general industrial robotic liquid cooled torch. It has excellent cooling performance, compact structure and good accessibility ensure continuous precision welding. The interchangeable gun necks shorten equipment downtime and reduces the cost of maintenance, It has a high degree of process safety and is capable of welding work between various materials.



poling mode: Water-cooled
ated value: 550A CO2/500A , MIXED GAS
uty cycle: 100%
ameter of welding wires: 0.8-1.6mm
ngle of gun neck: 22°
stant_stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm

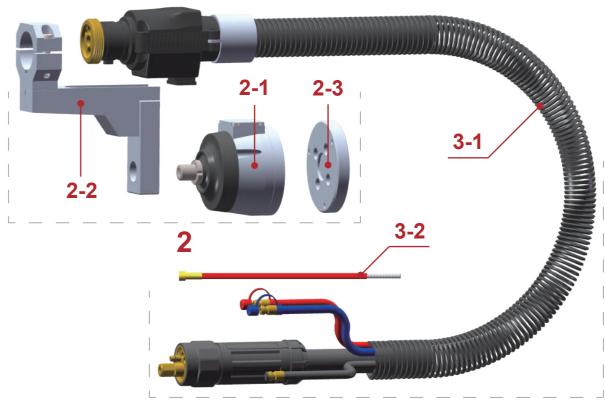


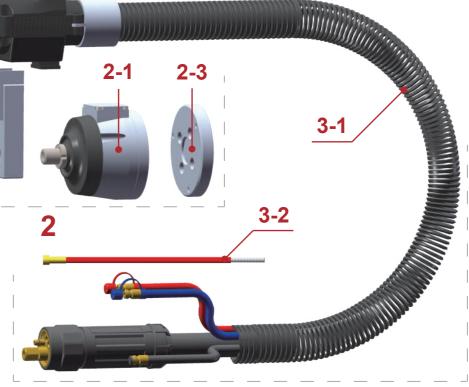
# • ROBOT W550 External Water Cooled 1-5 1-4 1-3

1-2

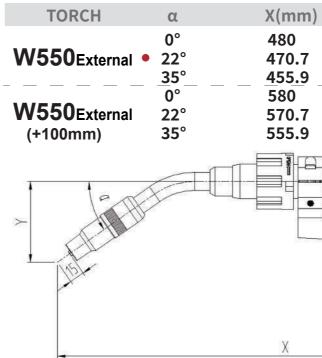
- 1-1 Gas nozzle
  - **1-2 Insulator**
  - 1-3 Contact tip
  - **1-4** Contact tip holder
  - 1-5 Torch head

- 2-1 Anti collision device
  - 2-2 Torch bracket
  - 2-3 Flange
- 3-1 Cable
  - 3-2 Liner





#### TCP





3 Y(mm) Code AA28-00-001 0 AA28-22-001 49.6 AA28-35-001 80.7 AA28-00-002 0 AA28-22-002 49.6 80.7 AA28-35-002

48



# • **ROBOT W550**External Ordering information



## Complete

Purchase number	Description
BB57-1910-06	Robot welding gun/EUR rear interface

Tapered gas nozzle/Φ15.5/L=72.5

#### Purchase number Description AA28-00-001 Water-cooled Torch head/0°/Standard Water-cooled Torch head/0 °/Long+100mm AA28-00-002 1-5 Water-cooled Torch head/22 °/Standard AA28-22-001 **Torch head** Water-cooled Torch head/22 °/Long+100mm AA28-22-002 Water-cooled Torch head/35 °/Standard AA28-35-001 Water-cooled Torch head/35 °/Long+100mm AA28-35-002 1-4 • AE11-12-003 Guide rod/M8/Cr-Zr-Cu **Guide rod** Guide rod/M8/Brass AE11-12-004 23.2 XCU0005-78 0.8/M8\*30/Cr-Zr-Cu 1-3 XCU0005-80 1.0/M8\*30/Cr-Zr-Cu • XCU0005-82 1.2/M8\*30/Cr-Zr-Cu **Contact tip** XCU0005-84 1.4/M8\*30/Cr-Zr-Cu 30 XCU0005-86 1.6/M8\*30/Cr-Zr-Cu 1-2 AG07-20-001 Insulator Insulator AB51-27-001 Bottle shaped nozzle/Ф15.5/L=72 • AB51-27-003 Bottle shaped nozzle/ $\Phi$ 15.5/L=75.5 1-1 AB51-27-005 Bottle shaped nozzle/Ф15.5/L=77 Gas nozzle Bottle shaped nozzle/Φ13/L=75.5 AB51-27-006 75.5 AB51-27-007 Bottle shaped nozzle/ $\Phi$ 13/L=77 AB51-27-008 Tapered gas nozzle/ $\Phi$ 15.5/L=75.5

AB51-27-009

#### 2-1 Anti collision device





2-2 Bracket

2-3 Flange

Purchase nu 3-1 Cable CA57-1100 EUR 1 0 E PAN

3-2 Liner



USA

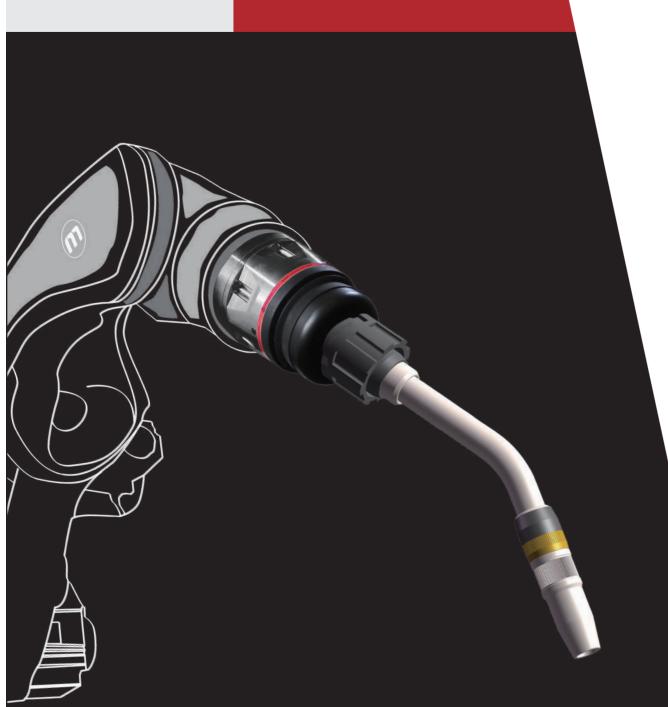
49



Purchase number	Description
BA01-20-001 BA01-20-002	HIT200/independence/5KG
BA01-20-002	HIT200/independence/10KG HIT200/independence/15KG
Technical Parameter	
Size: Maximum outer dian Weight: approximately 81 Trigger pressure: approxi	neter83mm,height90mm 0 g nately 10KG in the X and Y axis directions,
and app Maximum offset: approxir	roximately 85KG in the Z axis direction nately 15° in the X and Y planes; nately 5mm in the Z plane
Instant stop: The deviatio The deviation	n between X axis and Y axis is around1.5° n of the Z axis is around 1mm
Repeatability: less than 0. Safety switch: 30V DC 0.14	3mm (at 300mm from the robot flange) A
Purchase number	Description
4507 00 402	Customer customization /7 bracket
AF07-00-403	Customer customization/Z-bracket
Purchase number	Description
AF06-86-001 E	kternal independent flange/customized
Note: Flange interface can be	customized as required.
Purchase number	Description
CA57-1100-07 W	ater cooled cable assembly/EUR rear interface
	L
Note: The length of cable sets ca	n be customized as required.
-	Ĩ
Purchase number	Description
UR	Liner Ф1.0-Ф1.2/1.8 M/Red/ROBOT/EUR
• IIC0534-05 L	inerΦ1.2-Φ1.6/1.8 M/Black/ROBOT/EUR
	50



## **ROBOT W600** Water-Cooled Robotic Torch



#### **PRODUCT ADVANTAGES**

- Stainless steel torch neck, strong and durable, without fear of collision
- Anti collision made of high-strength aviation aluminum alloy to ensure accurate "reset accuracy"
- Convenient installation and simple operation
- Available for all hollow welding robots

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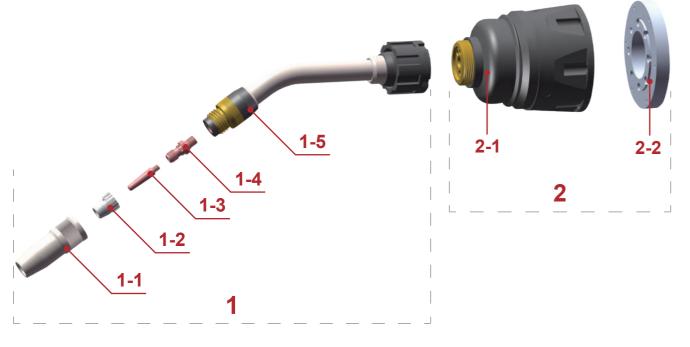


The Robot W600 welding gun is a robotic liquid cooled torch suitable for more applications. It's more robust structural design and optimized water channel design ensure that the torch has a larger and more stable high-current load capacity. It guarantees the welding quality of long-term continuous welding, and has a high degree of process safety, Useful for welding work in general industry, heavy industry and other applications.

ooling mode: Water-cooled
ated value: 600A CO2/550A , MIXED GAS
uty cycle: 100%
ameter of welding wires: 0.8-1.6mm
ngle of gun_neck: 22°
stant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm

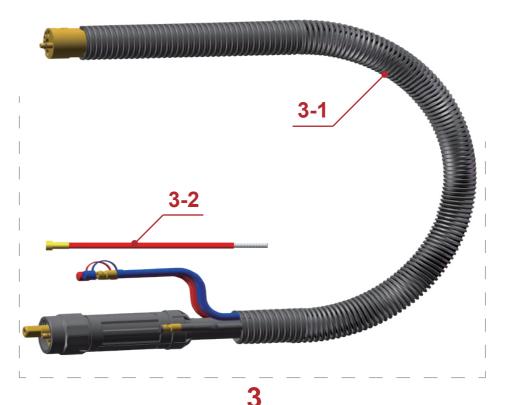


# • **ROBOT W600 Water Cooled**

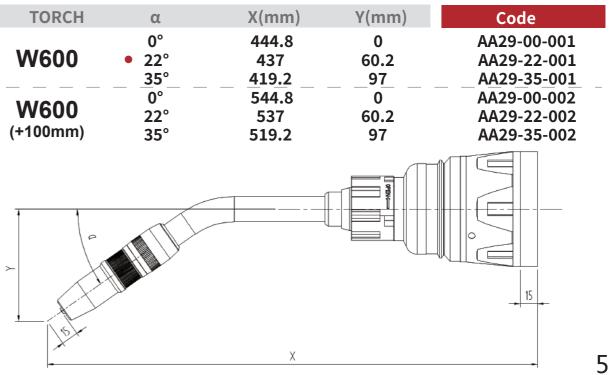


- 1-1 Gas nozzle
  - **1-2 Insulator**
  - 1-3 Contact tip
  - **1-4** Contact tip holder
  - 1-5 Torch head

- 2-1 Anti collision device 2-2 Flange
- 3-1 Cable
  - 3-2 Liner



ТСР		•
TORCH	α	X(
W600	0° • 22° 35°	44 41
<b>W600</b> (+100mm)	0° 22° 35°	54 5 51





53



# • **ROBOT W600** Ordering information



## Complete

**Purchase number** Description Robot welding gun/EUR rear interface BB58-1910-06

		Purchase numb	er Description
	[]	AA29-00-001	Water-cooled Torch head/0 °/Standard
1-5 Torch head	AA29-00-002	Water-cooled Torch head/0 °/Long+100mm	
		• AA29-22-001	Water-cooled Torch head/22 °/Standard
	AA29-22-002	Water-cooled Torch head/22 °/Long+100mm	
		AA29-35-001	Water-cooled Torch head/35 °/Standard
		AA29-35-002	Water-cooled Torch head/35 °/Long+100mm
1-4		• AE11-16-010	Guide rod/M6
Guide rod		AE11-16-011	Guide rod/M8
Guide rou	_		
1-3 I M6	XCU0747-78	0.8/M6*40/Cr-Zr-Cu	
	XCU0747-80	1.0/M6*40/Cr-Zr-Cu	
	• XCU0747-82	1.2/M6*40/Cr-Zr-Cu	
	XCU0747-84	1.4/M6*40/Cr-Zr-Cu	
Contact tip	-10	XCU0747-86	1.6/M6*40/Cr-Zr-Cu
		XCU0005-78	0.8/M8*30/Cr-Zr-Cu
		XCU0005-80	1.0/M8*30/Cr-Zr-Cu
	30	XCU0005-82	1.2/M8*30/Cr-Zr-Cu
		XCU0005-84 XCU0005-86	1.4/M8*30/Cr-Zr-Cu 1.6/M8*30/Cr-Zr-Cu
		XCUUUU5-80	
1.0			
1-2		• ICF0977	Gas diffuser/M12
Insulator		ICF0838	Gas diffuser/M14
	-	• AB51-31-001	Tapered gas nozzle/Φ13/L=80
1-1	θτ	AB51-31-002	Tapered gas nozzle/Ф13/L=00
Gas nozzle	Ĩ <sub>3</sub> ⊥	AB51-31-003	Tapered gas nozzle/Φ15/L=80
54		AB51-31-004	Tapered gas nozzle/ $\Phi$ 15/L=70
	80.5		

80.5

#### 2-1 Anti collision device





2-2 Flange

Safety switch: DC12V 2A

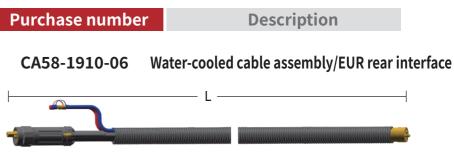
#### **Purchase number**

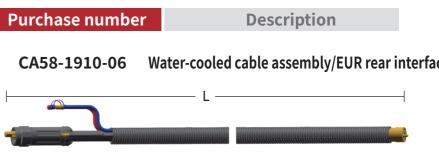
#### Built in flange/customized AF06-100-01

Note: Flange interface can be customized as required.

## 3-1 Cable EUR







Note: The length of cable sets can be customized as required.

#### 3-2 Liner



USA

LinerΦ1.0-Φ1.2/1.8 M/Red/ROBOT/EUR IIC0560-05 EUR • IIC0534-05 Liner 01.2-01.6/1.8 M/Black/ROBOT/EUR



#### Description Purchase number iHIT Hollow anti-collision device BA02-31-501 Technical Parameter Size: Maximum outer diameter100mm, height120mm Weight: approximately 1700 g Trigger pressure: approximately 3KG in the X and Y axis directions, Maximum offset: approximately 30KG in the X and Y axis directions, and approximately 30KG in the X and Y planes; Approximately 50° in the X and Y planes; Instant stop: The deviation between X axis and Y axis is around1.5° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange)

Description



Description



**ROBOT W600** Water-Cooled Robotic Torch Fixed welding wire type

#### **PRODUCT ADVANTAGES**

- Stainless steel torch neck, strong and durable, without fear of collision
- Anti collision made of high-strength aviation aluminum alloy to ensure accurate "reset accuracy"
- Convenient installation and simple operation
- Available for all hollow welding robots

The Robot W600 welding gun is a robotic liquid cooled torch suitable for more applications. Its more robust structural design and optimized water channel design ensure that the torch has a larger and more stable high-current load capacity. It guarantees the welding quality of long-term continuous welding, and has a high degree of process safety, Useful for welding work in general industry, heavy industry and other applications. Cable assemblies with contact weld seam positioning are now available with a wire clamping function that holds the wire in place. This function module uses pneumatic piston operation to clamp the wire, ensuring that the weld seam is identified and the weld wire is maintained during welding.

> SF Co Ra Du Dia An Inst



ooling mode: Water-cooled
ated value: 600A CO2/550A , MIXED GAS
uty cycle: 100%
iameter of welding wires: 0.8-1.6mm
ngle of gun_neck: 22°
stant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm



# • **ROBOT W600**

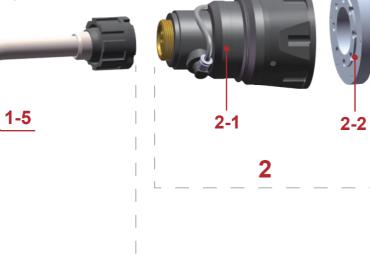
Fixed welding wire type

# Water Cooled

1-4

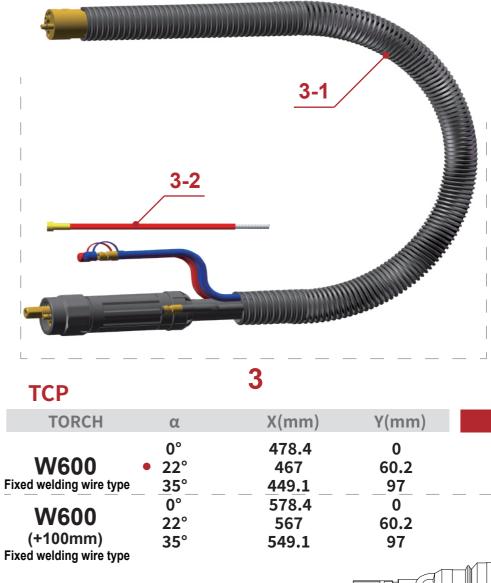
1-3

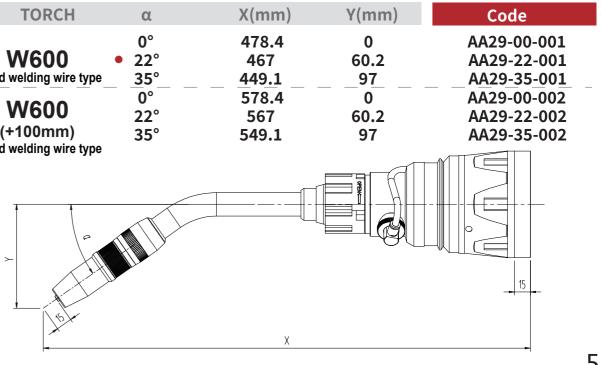
1



- 1-1 Gas nozzle
  - **1-2 Insulator**
  - 1-3 Contact tip
  - **1-4** Contact tip holder
  - 1-5 Torch head

- 2-1 Anti collision device
  2-2 Flange
- 3-1 Cable3-2 Liner









# • ROBOT W600 Ordering information

Fixed welding wire type

### Complete Purchase number Description Robot welding gun/EUR rear interface BB68-1910-06 Fixed welding wire type Purchase number Description Water-cooled Torch head/0°/Standard AA29-00-001 AA29-00-002 Water-cooled Torch head/0 °/Long+100mm 1-5 Water-cooled Torch head/22 °/Standard AA29-22-001 **Torch head** AA29-22-002 Water-cooled Torch head/22 °/Long+100mm AA29-35-001 Water-cooled Torch head/35 °/Standard AA29-35-002 Water-cooled Torch head/35 °/Long+100mm 1-4 • AE11-16-010 Guide rod/M6 **Guide rod** AE11-16-011 Guide rod/M8 XCU0747-78 0.8/M6\*40/Cr-Zr-Cu XCU0747-80 1.0/M6\*40/Cr-Zr-Cu • XCU0747-82 1.2/M6\*40/Cr-Zr-Cu 1-3 XCU0747-84 1.4/M6\*40/Cr-Zr-Cu 40 XCU0747-86 1.6/M6\*40/Cr-Zr-Cu **Contact tip** XCU0005-78 0.8/M8\*30/Cr-Zr-Cu XCU0005-80 1.0/M8\*30/Cr-Zr-Cu XCU0005-82 1.2/M8\*30/Cr-Zr-Cu XCU0005-84 1.4/M8\*30/Cr-Zr-Cu XCU0005-86 1.6/M8\*30/Cr-Zr-Cu 1-2 Gas diffuser/M12 • ICF0977 Insulator **ICF0838** Gas diffuser/M14 • AB51-31-001 Tapered gas nozzle/Φ13/L=80 1-1 AB51-31-002 Tapered gas nozzle/Φ13/L=70 <u>8</u>] Gas nozzle Tapered gas nozzle/Φ15/L=80 AB51-31-003 Tapered gas nozzle/Φ15/L=70 AB51-31-004 59 80.5

# 2-1 Anti collision device

2-2 Flange

# Description BA02-31-502 iHIT Hollow anti-collision device Fixed welding wire type Size: Maximum outer diameter100mm,height150mm Weight: approximately 1650 g Trigger pressure: approximately 5KG in the X and Y axis directions, and approximately 45KG in the Z axis direction Maximum offset: approximately 10 ° in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around 1.5° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: DC12V 2A

# **Purchase number Technical Parameter**

# **Purchase number**

### AF06-100-01 **Built in flange/customized**

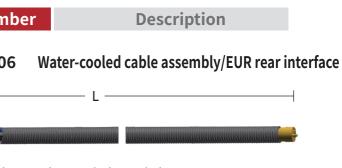
Note: Flange interface can be customized as required.

3-1 Cable		Purchase numbe
	EUR	CA58-1910-06
0) 0	PAN	
	USA	Note: The length of cable sets
3-2 Liner		Purchase numbe
		EUR • IIC0560-05
W600 gun neck v feeding hose ass		<ul> <li>IKH0835</li> <li>IKH0836</li> </ul>
	_	IKH0837

IKH0838



Description



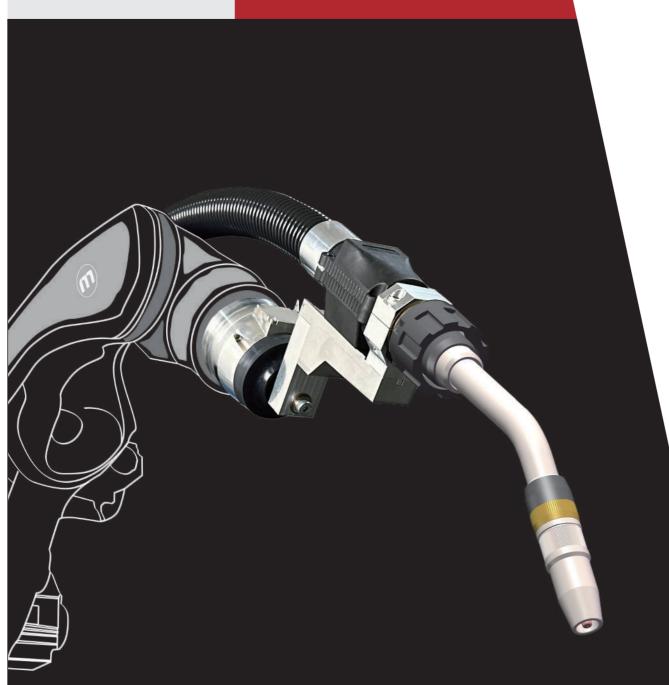
s can be customized as required.

Description

- Liner 01.0-01.2/1.8 M/Red/ROBOT/EUR Liner 01.2-01.6/1.8 M/Black/ROBOT/EUR
  - Φ1.0-Φ1.2/L=248mm Φ1.0-Φ1.2/L=348mm Φ1.4-Φ1.6/L=248mm Φ1.4-Φ1.6/L=348mm



# **ROBOT W600**External Water-Cooled Robotic Torch



# **PRODUCT ADVANTAGES**

- Stainless steel torch neck, strong and durable, without fear of collision
- Anti-collision made of high-strength aviation aluminum alloy to ensure accurate "reset accuracy"
- Convenient installation and simple operation

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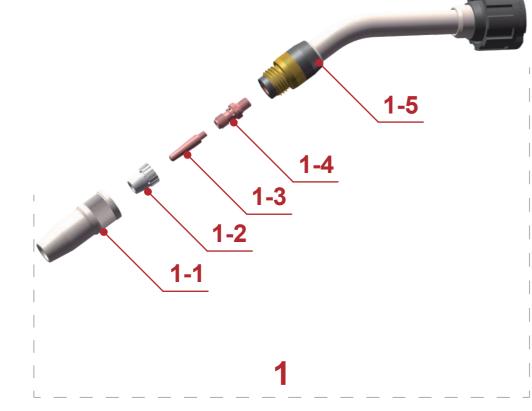
The Robot W600 welding gun is a robotic liquid-cooled torch suitable for more applications. Its more robust structural design and optimized water channel design ensure that the torch has a larger and more stable high-current load capacity. It guarantees the welding quality of long-term continuous welding, and has a high degree of process safety, Useful for welding work in general industry, heavy industry and other applications.

# **SPECIFICATIONS**

ooling mode: Water-cooled
ated value: 600A CO2/550A, MIXED GAS
uty cycle: 100%
ameter of welding wires: 0.8-1.6mm
ngle of gun neck: 22°
stant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm

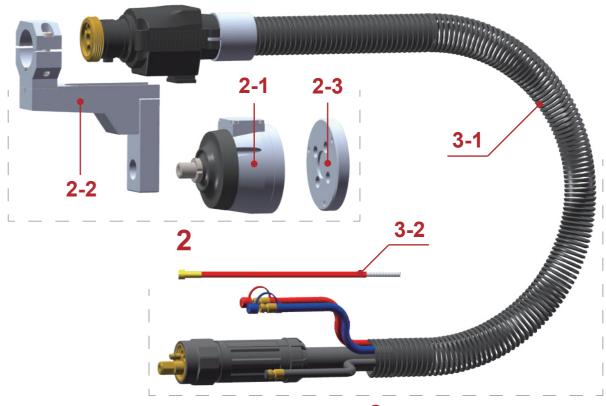


# ROBOT W600 External Water Cooled

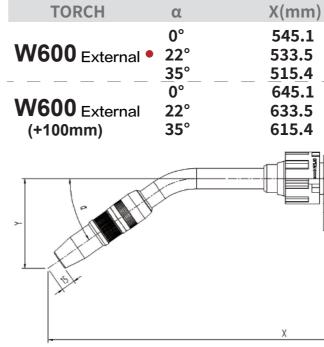


- 1-1 Gas nozzle
  - **1-2 Insulator**
  - 1-3 Contact tip
  - **1-4** Contact tip holder
  - 1-5 Torch head

- 2-1 Anti collision device
  - 2-2 Torch bracket
  - 2-3 Flange
- 3-1 Cable
  - 3-2 Liner



# TCP





3

Y(mm)	Code
0	AA29-00-001
61.1	AA29-22-001
98.4	AA29-35-001
0	AA29-00-002
61.1	AA29-22-002
98.4	AA29-35-002



64

# ROBOT W600 External Ordering information



# Complete

Purchase number	Description
BB58-1910-07	Robot welding gun/EUR rear interface

# 2-1 Anti collision device





2-2 Bracket

2-3 Flange



**Technical Par** Size: Maximun Weight: appro Trigger pressu

> Maximum offs Instant stop:

Repeatability: Safety switch:

# Purchase n

AF07-00-4

Purchase nu

# AF06-86-0

Note: Flange inte



# Purchase nu



		Purchase number	r Description
	[]	AA29-00-001	Water-cooled Torch head/0 °/Standard
		AA29-00-002	Water-cooled Torch head/0 °/Long+100mm
1-5		• AA29-22-001	Water-cooled Torch head/22 °/Standard
Torch head		AA29-22-002	Water-cooled Torch head/22 °/Long+100mm
		AA29-35-001	Water-cooled Torch head/35 °/Standard
		AA29-35-002	Water-cooled Torch head/35 °/Long+100mm
1-4		• AE11-16-010	Guide rod/M6
Guide rod		AE11-16-010	Guide rod/M8
Guiderou		AE11-10-011	Guide Iod/Mo
		XCU0747-78	0.8/M6*40/Cr-Zr-Cu
		XCU0747-80	1.0/M6*40/Cr-Zr-Cu
	<b>□</b> M6	• XCU0747-82	1.2/M6*40/Cr-Zr-Cu
1-3		XCU0747-84	1.4/M6*40/Cr-Zr-Cu
<b>Contact tip</b>	40	XCU0747-86	1.6/M6*40/Cr-Zr-Cu
contact tip		XCU0005-78	0.8/M8*30/Cr-Zr-Cu
		XCU0005-80	1.0/M8*30/Cr-Zr-Cu
	30	XCU0005-82	1.2/M8*30/Cr-Zr-Cu
		XCU0005-84	1.4/M8*30/Cr-Zr-Cu
	[]	XCU0005-86	1.6/M8*30/Cr-Zr-Cu
1-2	.=	• ICF0977	Insulator/M12
Insulator		ICF0838	Insulator/M14
IIISulator			msutator
		• AB51-31-001	Tapered gas nozzle/Φ13/L=80
1-1		AB51-31-002	Tapered gas nozzle/Φ13/L=30
	₽13	AB51-31-003	Tapered gas nozzle/Φ15/L=80
Gas nozzle		AB51-31-004	Tapered gas nozzle/Φ15/L=70
57	80.5		



umber	Description
-001 -002 -003	HIT200/independence/5KG HIT200/independence/10KG HIT200/independence/15KG
oximately 81 ure: approxir and app set: approxin Approxin The deviation The deviation	nately 10KG in the X and Y axis directions, roximately 85KG in the Z axis direction nately 15° in the X and Y planes; nately 5mm in the Z plane n between X axis and Y axis is around1.5° n of the Z axis is around 1mm 3mm (at 300mm from the robot flange)
umber	Description
403	Customer customization/Z-bracket
umber	Description
	xternal independent flange/customized
terface can be	customized as required.
umber	Description
0-07 Wa	ater cooled cable assembly/EUR rear interface
of cable sets car	n be customized as required.
umber	Description
	LinerΦ1.0-Φ1.2/1.8 M/Red/ROBOT/EUR inerΦ1.2-Φ1.6/1.8 M/Black/ROBOT/EUR 65



# **ROBOT T320W** Water-Cooled Robotic Torch



# PRODUCT ADVANTAGES

- Convenient installation and simple operation
- The TIG torch structure is compact, suitable for different working conditions
- The wire feeding frame can be fine tuned back and forth, left and right, up and down
- The wire feeding frame itself can also rotate 90 degrees in three directions

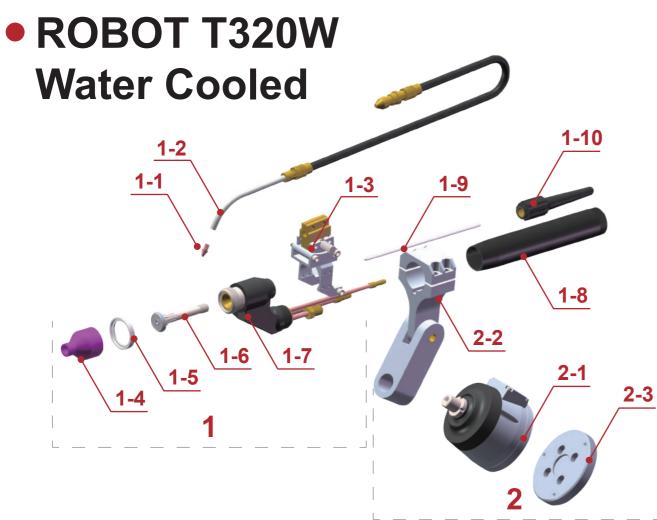
ROBOT 320W, the adjustable TIG welding torch can be adjusted front and back, up and down, left and right. It has simple operations, a compact torch body, stable performance, long service life, and can work in a variety of complex environments and improve work efficiency.

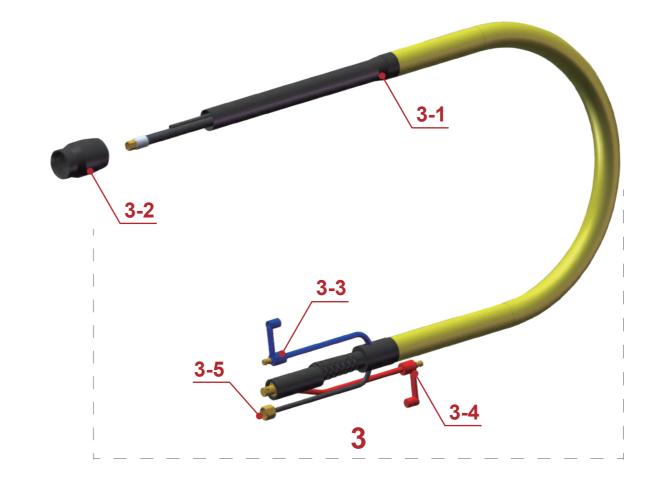


# SPECIFICATIONS

Wire feeding type: automatic wire feeding Cooling mode: Water-cooled Rated value: 320A DC/210A AC Duty cycle: 100% Diameter of welding wires: 0.8-2.0mm Diameter of Tungsten needle: 1.6-4.0mm

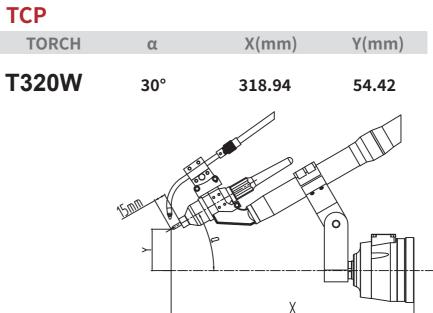






- 1-1 Wire feed nozzle
  - **1-2 Wire feeder**
  - **1-3** Automatic wire feed bracket **2-2** TIG torch bracket
  - **1-4 Outside nozzle**
  - **1-5** Insulating gasket
  - 1-6 Gas lens
  - **1-7** Water cooled torch neck
  - **1-8** Straight tube handle
  - 1-9 Tungsten Ce
  - 1-10 Long back cap

- 2-1 Anti collision device
- 2-3 Flange
- 3-1 Cable
  - 3-2 Joint
  - 3-3 Water inlet hose
  - 3-4 Water outlet hose
  - 3-5 Gas hose





Code



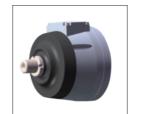
BD320-500-01



# • **ROBOT T320W** Ordering information

$\sim$		Complete	
Sec.		Purchase number	Description
		BD320-500-01	TIG argon arc welding gun
4		Purchase number	Description
1-1 Nozzle		ITC8655-12	Wire feed tube nozzle φ1.2 (Optionalφ0.8, 0.9 1.0, 1.2, 1.4, 1.6, 1.8, 2.0)
1-2 Wire feeding group		CC04-150-01	Wire feeding group 1.5 meters
1-3 Wire feeding bracket		AF07-00-301	Automatic wire feeding bracket
1-4 Outer nozzle		AB61-10-001	Outer nozzle φ10
1-5 Insulating washer	0	IFT9010	Insulating washer
1-6 Collet Body gas lens	0	IGF0087-40	<b>Collet Body gas lens φ4.0</b> (Optionalφ1.6、2.0、2.4、2.8、3.2、3.6、4.0)
1-7 Torch Head		AA61-320-01	Water-cooled Torch Head
1-8 Straight handle		ICV0012	Straight handle
1-9 Tungsten Ce		IGB0002-40	<b>Tungsten Ce WC20 4,0x150 Grey</b> (Optionalφ1.6,2.0,2.4,2.8,3.2,3.6,4.0)
1-10 Long back cap		AB62-093-01	Long back cap L=93

# 2-1 Anti collision device



### Purchas





2-3 Flange

(



Note: The length of cable sets can be customized as required.



Purchase number	Description
BA01-20-001 • BA01-20-002 BA01-20-003	HIT200/independence/5KG HIT200/independence/10KG HIT200/independence/15KG
<b>Technical Parameter</b>	
Size: Maximum outer diameter83mm,height90mm Weight: approximately 810 g Trigger pressure: approximately 10KG in the X and Y axis directions, and approximately 85KG in the Z axis direction Maximum offset: approximately 15° in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around1.5° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: 30V DC 0.1A	
Purchase number	Description
r drendse fidfilber	Description

AF07-00-007 AF07-00-010

Argon arc welding gun bracket Argon arc adjustable angle bracket

**Purchase number** 

Description

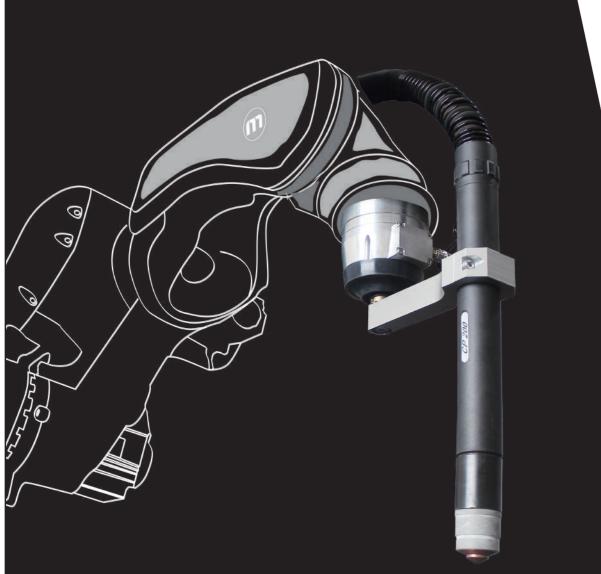
### AF06-00-003

**External flange/customized** 

Note: Flange interface can be customized as required.



**ROBOT CB200 With High Frequency** 



# PRODUCT ADVANTAGES

- Fast and flexibly suitable for various cutting tasks
- The max liquid-cooling current up to 200A
- Strong and durable structure ensure stability against bumping
- Advanced technology and long-life time



ROBOT CB200 is high frequency liquid-cooling cutting torches. It has remarkable balance between cutting quality, speed and optimal cost. Effective liquid-cooling achieves continuous and precise cutting, improves production efficiency and reduces operation cost immensely.

# **SPECIFICATIONS**

Working Voltage : 140V
(The Electrode Nozzle Is 4mm Away From The Workpiece)
Working Voltage : 100V
(Electrode nozzle contacts workpiece)
Maximum Operating Current : 200A
Cutting Gas : 0.3MPa;44-48L/Min(6M)
Cooling Water : 0.3MPa;1.4L/Min(6M)
Duty Cycle : 60%/200A ; 100%/120A
Ignition : Without
Standard Length : 6M

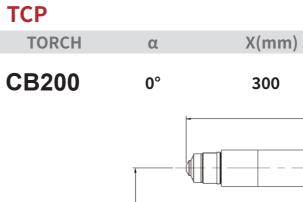


# • **ROBOT CB200**

With High Frequency



- 1-1 Gas nozzle
  - 1-2 Tip
  - **1-3 Electrode**
- 2-1 Torch head
  - 2-2 Machine handle
  - 2-3 Spring cable support
  - 2-4 Cable
- 3-1 Central adaptor
  - 3-2 Spanne
  - 3-3 Nozzle wrench





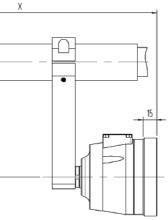


Y(mm)

Code

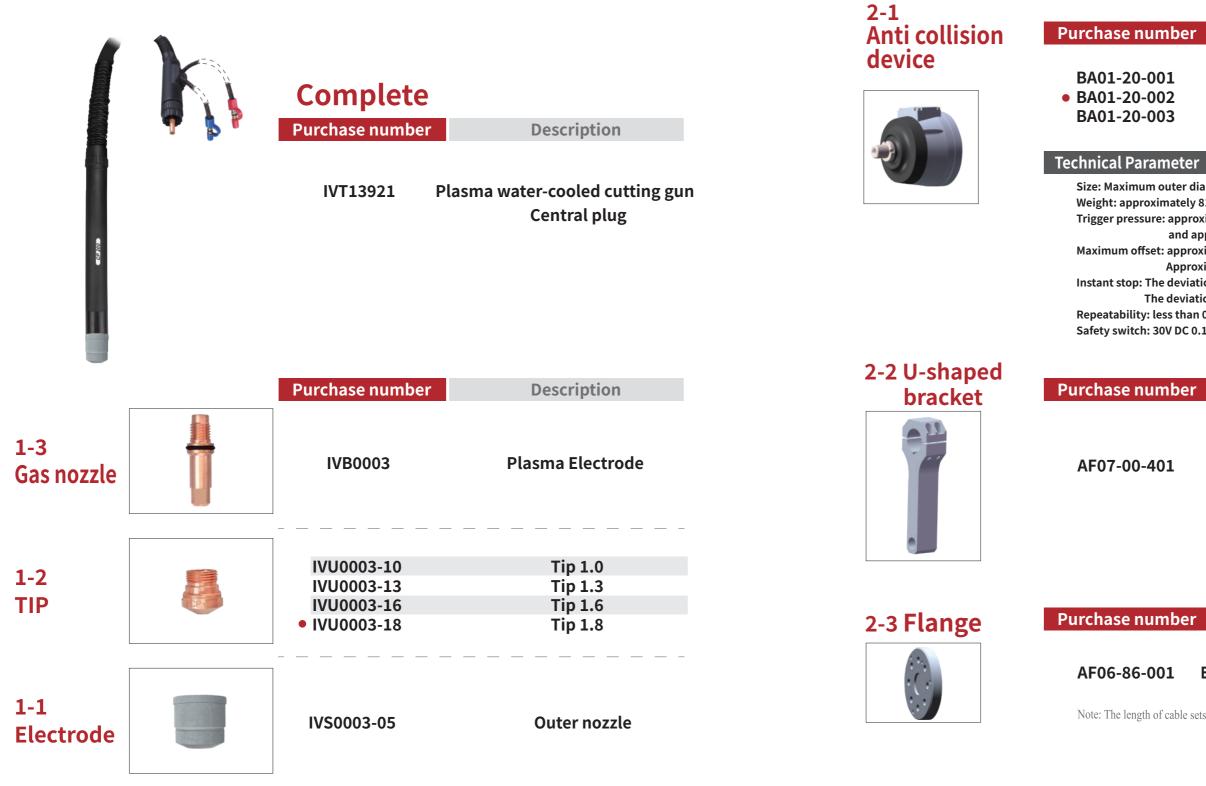


IVT13921





# • **ROBOT CB200** Ordering information





าน	m	ber	

Description

# HIT200/independence/5KG HIT200/independence/10KG HIT200/independence/15KG

Size: Maximum outer diameter83mm,height90mm Weight: approximately 810 g Trigger pressure: approximately 10KG in the X and Y axis directions, and approximately 85KG in the Z axis direction Maximum offset: approximately 15  $^{\circ}$  in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around 1.5° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: 30V DC 0.1A

Description

**Customer customized** Straight bracket

Description

### External independent flange/customized

Note: The length of cable sets can be customized as required.



# **Servomotor Push-Pull Gun Mechanism**



# **PRODUCT ADVANTAGES**

- Compact structure, light-weight, push-pull main body can be disassembled, high accessibility
- High precision, fast responding servomotor
- Disassembled Euro connector is more convenient for installation
- It's compatible with market common wire feeder connector

A high precision, large torque, quick responsed, high responsibility servomotor is applied to this water cooled push-pull gun. During welding operation, it can provide fast response and precise wire feeding to ensure efficient and high quality welding performance. It can associate with welding robot power source for a variety of welding processes. Push-pull gun wire feeding machanism has a compact design, adopt modular design to achieve prompt disassembly and installation. And it can be applied to a variety of water cooling gun necks, to meet the needs of different welding application.

# SPECIFICATIONS

### Wire feed part :

High performance servomotor options : Input AC 220V high performance servomotor Input DC 48V low volt high performance servomotor The servomotor is high precision, high stability, wire feed is stable and reliable, Compact structure/lightweight, wire feeder is 1.5kgs, comlete gun is 3kgs (It includes iHitmini anti-collision device, "W" series gun neck, the cable is not included) Wide range of wire feed speed : 1 - 25 m/min Suitable for welding wire size : 0.8 - 1.6 mm

### Precision :

High precision TCP : +/- 0.3 mm Anti-collision sensor returning precision : +/- 0.3 mm Anti-collision part :

It can associate with iHitmini hollow or external anti-collision device

### Rated welding data :

Cooling method : Water cooled Rated current : 600A Duty cycle : 100%

Flow : Shield gas flow : max 40L/min (2 bar) Cooling water flow : Min. 1.8 l/min(3.5 bar pressure difference)

### Neck part :

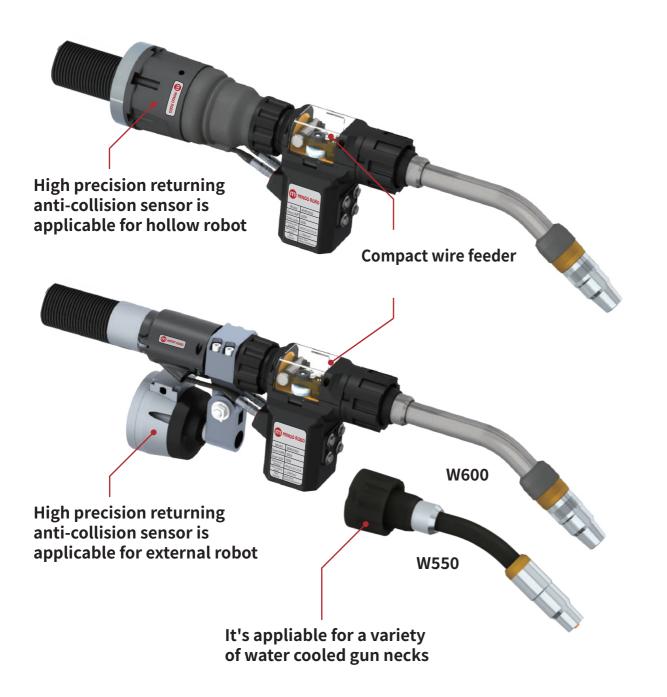
It's appliable for a variety of water cooled gun necks Different sizes and angles of the neck can be selected according to the requirements



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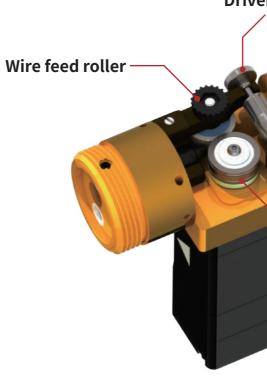


# Servomotor Push-Pull Gun Mechanism Water Cooled





Knob (wire feeding, returning, shield gas inspection, reserved)





Servopower supply and signal interface

Driven roller pressurer arm

Pressurer force rotation adjustment device

Self-insulated wire feed roller

High performance & large torque servemotor





# **ROBOT CR360/500 Collaborative Robot Torches**



- Convenient installation and simple operation
- Standardized parts reduce maintenance costs

The MINOO CR Series collaborative robot welding torch is a light-weight, high-precision welding torch, specifically designed for collaborative robots, meeting the demands of flexible manufacturing. With its optimized structure and high-performance materials, it is perfectly suited for collaborative robots with low payloads and high flexibility. Widely used in welding line upgrades and human-robot collaboration scenarios, this welding torch enhances welding efficiency while ensuring operational safety.

# **SPECIFICATIONS** CR360



# CR500

	Cooling mode: Air-cooled
AS	Rated value: 500A CO2/400A MIXED GAS
	Duty cycle: 100%
nm	Diameter of welding wires: 1.2-1.6mm
	Angle of gun neck: 35°



# **ROBOT CR501W** Collaborative Robot Torches



The **MINOO** CR Series collaborative robot welding torch is a light-weight, high-precision welding torch, specifically designed for collaborative robots, meeting the demands of flexible manufacturing. With its optimized structure and high-performance materials, it is perfectly suited for collaborative robots with low payloads and high flexibility. Widely used in welding line upgrades and human-robot collaboration scenarios, this welding torch enhances welding efficiency while ensuring operational safety.

# **PRODUCT ADVANTAGES**

- Strong and durable, without fear of collision
- Convenient installation and simple operation
- Standardized parts reduce maintenance costs



# SPECIFICATIONS

Cooling mode: Water-cooled Rated value: 500A CO2/450A MIXED GAS Duty cycle: 100% Diameter of welding wires: 0.8-1.2mm Angle of gun neck: 35°



# **ROBOT 350S Fume Extraction Air-Cooled Robotic Torch**



# precision welding will becomes reality.

# **PRODUCT ADVANTAGES**

- Convenient installation and simple operation
- Fairshaped channel, precision dust absorption
- Standardized parts reduce maintenance costs
- Available for all hollow welding robots

Coolir Rated Duty Diame Angle Instant

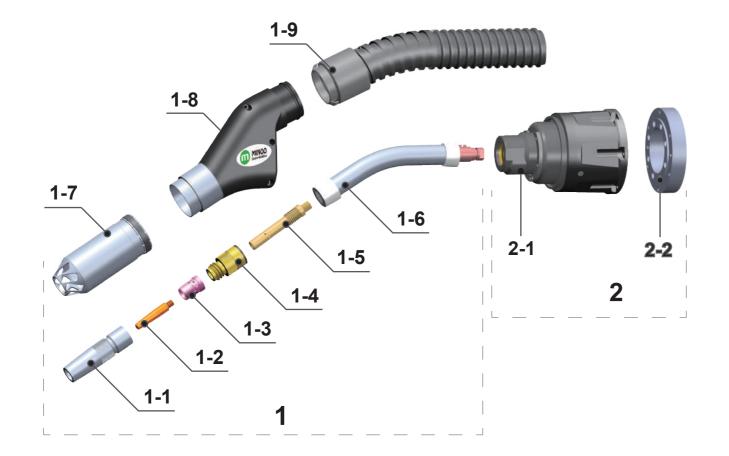


MINOO Robot-Environmental Protection Fume Extraction Torch System, uses convenient interface technology with conveniently interchangeable spare parts.Because of the streamline module design which decreases much of the space the Fume Extraction device occupies, The device is competent for jobs in narrow space and improves the Fume Extraction efficiency over 95%, and to tremendously, the environment of the workspace. Through the innovative and simple torch structure, environmental protection and convenient

# **SPECIFICATIONS**

ing mode: Air-cooled
d value: 350A CO2/300A , MIXED GAS
cycle: 60%
neter of welding wires: 0.8-1.2mm
e of gun neck: 31°
t stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm

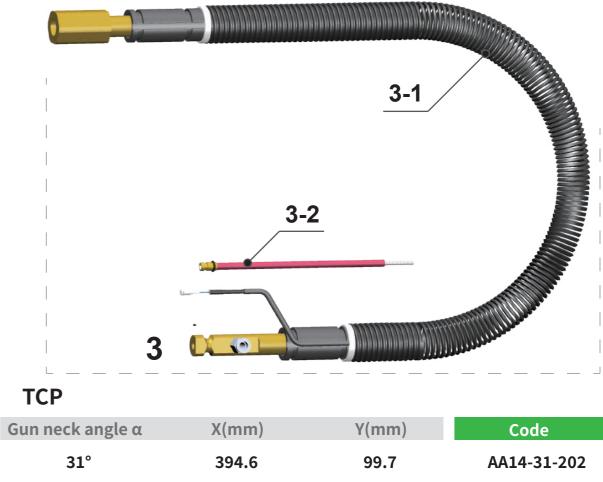


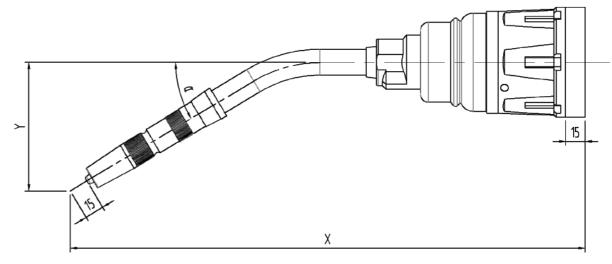


- 1-1 Gas nozzle
  - 1-2 Contact tip
  - 1-3 Gas diffuser
  - **1-4 Insulator**
  - 1-5 Guide rod
  - 1-6 Torch head
  - **1-7** Fume removal nozzle
  - **1-8** Fume extraction box
  - **1-9** Dust absorption tube

- 2-1 Anti collision device 2-2 Flange
- 3-1 Cable 3-2 Liner









# • **ROBOT 350S Fume Extraction Torch Air Cooled**



# ROBOT 350S Fume Extraction Torch Ordering information

		Complete	
		Purchase number	Description
		BBE07-2150-01	Fume Extraction Torch/PAN rear interface
		Purchase number	Description
1-1 Gas nozzle		AB51-21-001	Tapered gas nozzle/Φ13/L=73
1-2 Contact tip	■■■ 45	XCU0746-78 XCU0746-80 • XCU0746-82 XCU0747-78 XCU0747-80 XCU0747-82	0.8/M6*45/Cr-Zr-Cu 1.0/M6*45/Cr-Zr-Cu 1.2/M6*45/Cr-Zr-Cu 0.8/M6*40/Cr-Zr-Cu 1.0/M6*40/Cr-Zr-Cu 1.2/M6*40/Cr-Zr-Cu
1-3 Gas diffuser		ICF0976-01	Ceramic gas diffuser
1-4 Insulator		ICS6605	PAN Insulator
1-5 Guide rod		<ul> <li>AE11-13-001 AE11-13-002 AE11-13-003 AE11-13-004</li> </ul>	PAN guide rod/L=73.5/H62 PAN guide rod/L=68.5/H62 PAN guide rod/L=73.5/T1 PAN guide rod/L=68.5/T1
1-6 Torch head		AA14-31-202	PAN Torch head/31 °/Short/Split Style
1-7Fume removal nozzle		AB51-42-001	Fume removal nozzle/cone/8-hole
1-8Fume extraction box		CB07-42-001	Robot Fume extraction box box kit/31 °/black
1-9Dust absorption tube		AD05-06-001	Dust absorption tube/φ47*φ40

## 2-1 Anti collision Purchase number device BA02-30-801

2-2 Flange

Size: Maximur Weight: appro Trigger press

Maximum off

Instant stop:

Repeatability Safety switch: 12V DC 2A

### **Purchase number**

### **Customized conversion flange** AF06-85-001

Note: Flange interface can be customized as required.

3-1 Cable		Ρι	ırchase
	EUR	(	CA05-20
0 0	PAN		
	USA		Note: The le
3-2 Liner		Ρι	ırchase
		EUR	IIC056
		PAN	• IIC0

**IIC0112** 



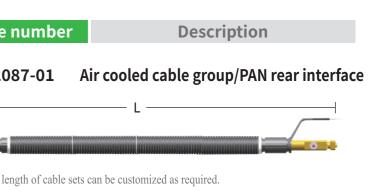
Description

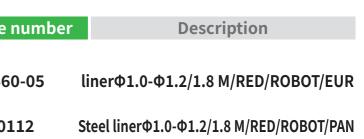
# iHIT mini hollow anti-collision device

### **Technical Parameter**

ım outer diameter83mm,height90mm
oximately 1100 g
sure: approximately 5KG in the X and Y axis directions,
and approximately 45KG in the Z axis direction
fset: approximately 10 ° in the X and Y planes;
Approximately 5mm in the Z plane
The deviation between X axis and Y axis is around1.5°
The deviation of the Z axis is around 1mm
y: less than 0.3mm (at 300mm from the robot flange)
12V DC 2A

Description







ROBOT 500S Fume Extraction Air-Cooled Robotic Torch



- Convenient installation and simple operation
- Fairshaped channel, precision dust absorption
- Standardized parts reduce maintenance costs
- Available for all hollow welding robots

**MINOO** Robot-Environmental Protection Fume Extraction Torch System, uses convenient interface technology with conveniently interchangeable spare parts.Because of the streamline module design which decreases much of the space the Fume Extraction device occupies, The device is competent for jobs in narrow space and improves the Fume Extraction efficiency over 95%, and to tremendously, the environment of the workspace. Through the innovative and simple torch structure, environmental protection and convenient precision welding will becomes reality.

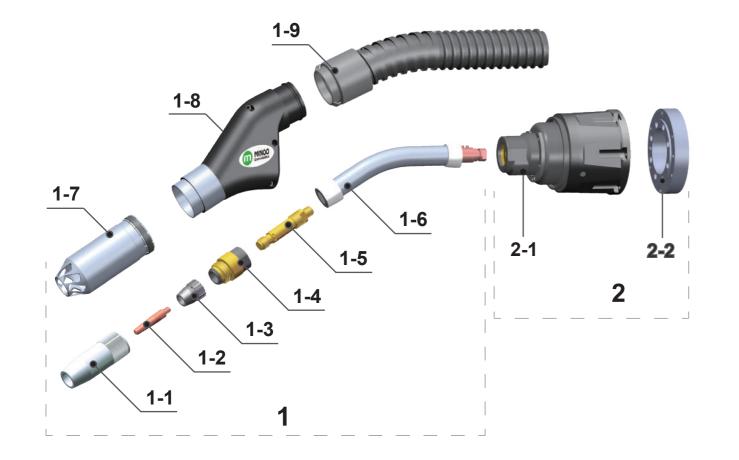
SPE Coolir Rated Duty of Diame Angle Instant



# **SPECIFICATIONS**

ing mode: Air-cooled
d value: 500A CO2/400A , MIXED GAS
cycle: 60%
neter of welding wires: 1.2-1.6mm
e of gun_neck: 31°
t stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm

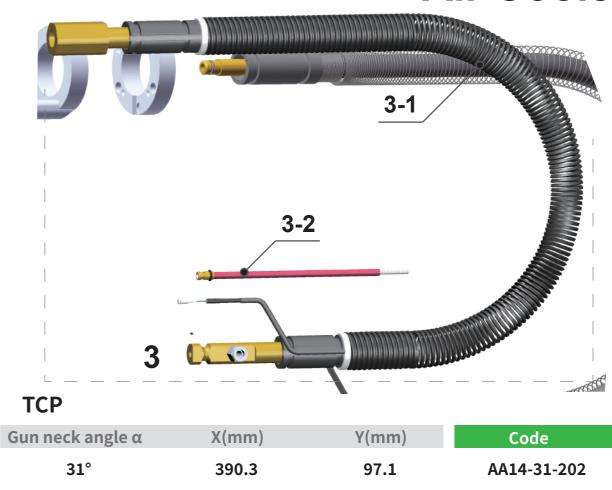


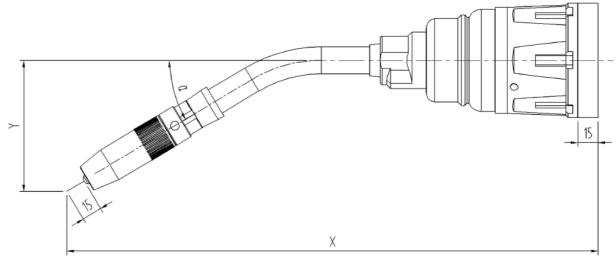


- 1-1 Gas nozzle
  - 1-2 Contact tip
  - 1-3 Gas diffuser
  - **1-4 Insulator**
  - 1-5 Guide rod
  - 1-6 Torch head
  - **1-7** Fume removal nozzle
  - **1-8** Fume extraction box
  - **1-9** Dust absorption tube

- 2-1 Anti collision device 2-2 Flange
- 3-1 Cable 3-2 Liner









# • **ROBOT 500S Fume Extraction Torch Air Cooled**



# ROBOT 500S Fume Extraction Torch Ordering information

			0
		Complete	
	E .	Purchase number	Description
			Fume Extraction Torch/PAN rear interface
		Purchase number	Description
1-1 Gas nozzle	Φ15] 70	• ICS0697	Tapered gas nozzle/Φ15/L=70
L		XCU0746-78	0.8/M6*45/Cr-Zr-Cu
1 2		XCU0746-80	1.0/M6*45/Cr-Zr-Cu
1-2	<b>—</b> ———————————————————————————————————	XCU0746-82	1.2/M6*45/Cr-Zr-Cu
Contact tip	45	XCU0747-78	0.8/M6*40/Cr-Zr-Cu
-		XCU0747-80	1.0/M6*40/Cr-Zr-Cu
		XCU0747-82	1.2/M6*40/Cr-Zr-Cu
1-3 Gas diffuser		• ICF0031 ICF0977	Bakelite gas diffuser Ceramic gas diffuser
1-4 Insulator		ICS6602	PAN Insulator
1-5 Guide rod		<ul> <li>AE11-15-002 AE11-15-001</li> </ul>	PAN guide rod/L=68.5/H62 PAN guide rod/L=68.5/T1
1-6 Torch head		AA14-31-202	PAN Torch head/31 °/Short/Split Style
1-7Fume removal nozzle		AB51-42-002	Fume removal nozzle/cone/8-hole
1-8Fume extraction box		CB08-42-001	Robot Fume extraction box box kit/31 °/black
1-9Dust absorption tube		AD05-06-001	Dust absorption tube/φ47*φ40

## 2-1 Anti collision Purchase number device BA02-30-801

2-2 Flange

Size: Maximu Weight: appr **Trigger press** 

Maximum off

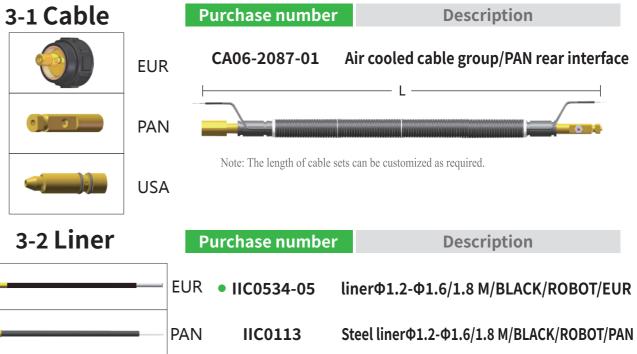
Instant stop:

Repeatability Safety switch

# **Purchase number**

### **Customized conversion flange** AF06-85-001

Note: Flange interface can be customized as required.



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### Description

# iHIT mini hollow anti-collision device

### **Technical Parameter**

um outer diameter83mm,height90mm
roximately 1100 g
sure: approximately 5KG in the X and Y axis directions,
and approximately 45KG in the Z axis direction
ffset: approximately 10 ° in the X and Y planes;
Approximately 5mm in the Z plane
: The deviation between X axis and Y axis is around1.5°
The deviation of the Z axis is around 1mm
y: less than 0.3mm (at 300mm from the robot flange)
h: 12V DC 2A

# Description



**ROBO W550 Fume Extraction** Water-Cooled Robotic Torch



# **PRODUCT ADVANTAGES**

- Convenient installation and simple operation
- Fairshaped channel, dust absorbed precisely
- Standardized parts reduce maintenance costs
- Available for all hollow welding robots

MINOO Robot-Environmental Protection Fume Extraction Torch System, use the most convenient connecting techniques, with the ability of fast exchangable spareparts. Because of the streamline module design, which decrease much of the space the Fume Extraction device occupies, will be competent for job in narrow space and improve the Fume Extraction efficiency over 95%, and optimize tremendously the environment of working area. Through the innovative and easy torch structure the more environmental protection and more convenient precise welding will become reality.

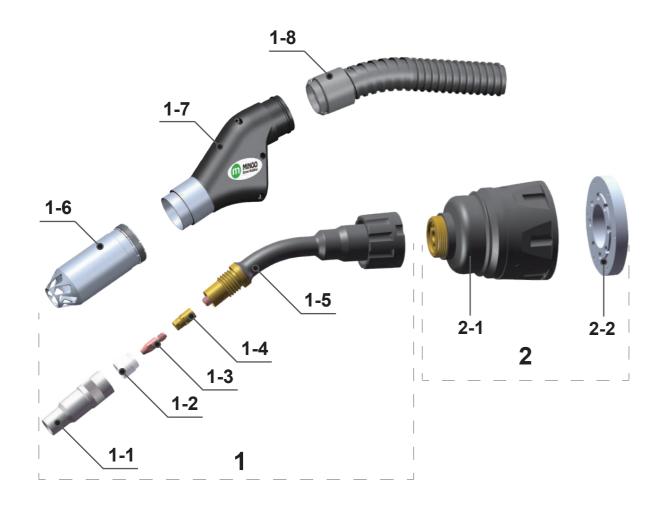
> Coolii Rated Duty Diam



# **SPECIFICATIONS**

Cooling mode: Water-cooled
Rated value: 550A CO2/500A , MIXED GAS
Duty cycle: 100%
Diameter of welding wires: 0.8-1.6mm
Angle of gun neck: 35°
Instant stop: The deviation between X axis and Y axis is around 1.5°
The deviation of the Z axis is around 1mm



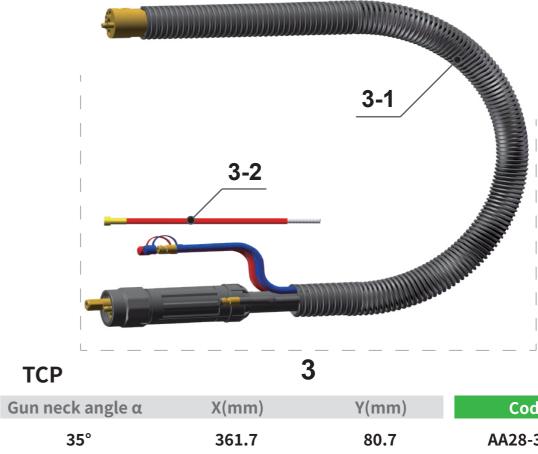


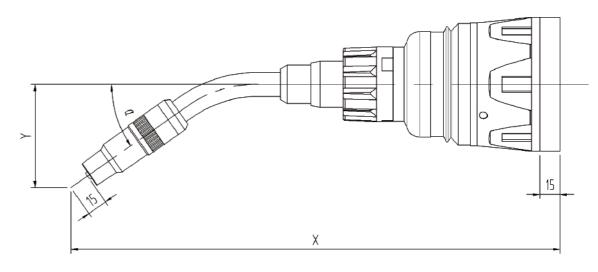
- 1-1 Gas nozzle
  - **1-2 Insulator**
  - 1-3 Contact tip
  - 1-4 Contact tip holder
  - 1-5 Torch head
  - 1-6 Fume removal nozzle
  - **1-7** Fume extraction box
  - 1-8 Dust absorption tube

• 2-1 Anti collision device 2-2 Flange

• 3-1 Cable 3-2 Liner

# • ROBOT W550 **Fume Extraction Torch Water Cooled**







Code

AA28-35-001



# **ROBOT W550 Fume Extraction Torch** Ordering information

		Complete	C
	B	Purchase number	Description
			Fume Extraction Torch/PAN rear interface
		Purchase number	Description
1-1 Gas nozzle	₽ 55 1 - 75.5	AB51-27-003	Bottle shaped nozzle/Φ15.5/L=75.5
1-2 Insulator		AG07-20-001	Insulator
		XCU0005-78	0.8/M8*30/Cr-Zr-Cu
1 2		XCU0005-80	1.0/M8*30/Cr-Zr-Cu
1-3	<b>есте</b> т м8	• XCU0005-82	1.2/M8*30/Cr-Zr-Cu
Contact tip	30	XCU0005-84	1.4/M8*30/Cr-Zr-Cu
l		XCU0005-86	1.6/M8*30/Cr-Zr-Cu
1-4 Guide rod	23.2	• AE11-12-003 AE11-12-004	Guide rod/M8/Cr-Zr-Cu Guide rod/M8/Brass
1-5 Torch head		AA28-35-001	Water cooled Torch head/35 °/standard
1-6Fume removal nozzle		AB51-42-006	Fume removal nozzle/cone/8-hole
1-7Fume extraction box		CB57-42-001	Robot Fume extraction box box kit/31 °/bla
1-8Dust absorption tube		AD05-06-001	Dust absorption tube/φ47*φ40

# 2-1 Anti collision Purchase number device

2-2 Flange

Size: Maxim Weight: app Trigger press

Maximum o

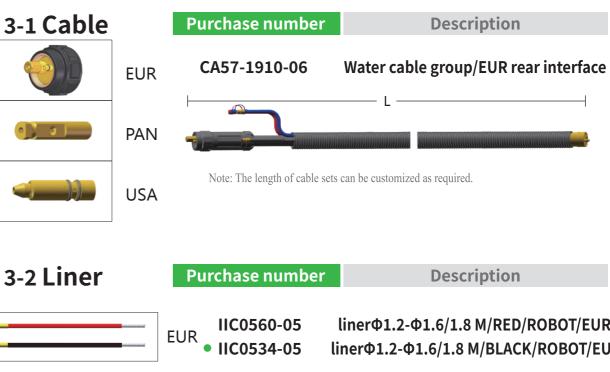
Instant stop:

Repeatabilit Safety switch: 12V DC 2A

### **Purchase number**

### **Customized conversion flange** AF06-100-01

Note: Flange interface can be customized as required.



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### Description

### BA02-31-501 iHIT hollow anti-collision device

### **Technical Parameter**

num outer diameter100mm,height120mm
proximately 1700 g
ssure: approximately 3KG in the X and Y axis directions,
and approximately 30KG in the Z axis direction
offset: approximately 10 ° in the X and Y planes;
Approximately 5mm in the Z plane
p: The deviation between X axis and Y axis is around1.5°
The deviation of the Z axis is around 1mm
ty: less than 0.3mm (at 300mm from the robot flange)
ch: 12V DC 2A

Description

linerΦ1.2-Φ1.6/1.8 M/RED/ROBOT/EUR liner 01.2-01.6/1.8 M/BLACK/ROBOT/EUR





- Strong and durable, without fear of collision
- Convenient installation and simple operation
- Standardized parts reduce maintenance costs

**MINOO** GC series environmental protection robot welding gun is a new type of torch with integrated welding dust extraction function specially developed for collaborative robots. This welding gun is light weight, durable and has a high load capacity. It not only meets the high welding load requirements of the robots, but also has simultaneous removal and filtration of welding dust during the welding process, protecting the health of welding operators and optimizing the air quality of the working environment.

# SPECIFICATIONS GC360

Cooling mode: Air-cooled Rated value: 360A CO2/290A , MIXED Duty cycle: 100% Diameter of welding wires: 0.8-1.2n Angle of gun neck: 35°



# SPECIFICATIONS GC500

	Cooling mode: Air-cooled
GAS	Rated value: 500A CO2/400A , MIXED GAS
	Duty cycle: 100%
mm	Diameter of welding wires: 1.2-1.6mm
	Angle of gun neck: 35°



# Cobot Fume Extraction Torch



# **PRODUCT ADVANTAGES**

- Strong and durable, without fear of collision
- Convenient installation and simple operation
- Standardized parts reduce maintenance costs

**MINOO** GC series environmental protection robot welding gun is a new type of torch with integrated welding dust extraction function specially developed for collaborative robots. This welding gun is light weight, durable and has a high load capacity. It not only meets the high welding load requirements of the robots, but also has simultaneous removal and filtration of welding dust during the welding process, protecting the health of welding operators and optimizing the air quality of the working environment.



# SPECIFICATIONS

Cooling mode: Air-cooled Rated value: 500A CO2/450A MIXED GAS Duty cycle: 100% Diameter of welding wires: 0.8-1.2mm Angle of gun neck: 35°

# **ROBO FUME EXTRACTION TORCH**



# **FUME EXTRACTION DEVICE**

The fume extraction system is integrated onto the torch body, vacuuming the welding smoke to protect the welder's respiratory system (the portable fume extractor machine is needed to use at the same time ) and reduce environmental pollution. best choice of healthier and environmental.

	MNFC-120A	MNFC-130A
Aspirating volume:	200±10m <sup>3</sup> /h	200±10m <sup>3</sup> /h
Motor Power:	1.2KW	2.2KW
Blower loading pressure:	25000Pa	25000Pa
Dust Outlet Diameter:	40mm	50mm
Filter Material:	PET	PET
Fiterable Fume Size:	0.3µm	0.1µm
Filterability:	99.90%	99.90%
Filter Cartridge Qty:	1(Ф200*170mm)	1(Ф200*170mm)
Filter Area:	1.3m <sup>2</sup>	12m <sup>2</sup>
Voltage:	220V/50HZ	380V/50HZ
Air compression:	0.5~0.6Mpa	0.5~0.6Mpa
Fume Cartridge Volume:	1L	5L
Fume removal Method:	Manual, pulse cleaning (customized)	Manual, pulse cleaning (customized)
Machine Dimension:	W600*280*475mm	W600*695*1200mm
Weight:	24KG	96KG±5KG









Robot external bumper (type HIT100 and HIT200) suits for various TCP demand through abundant spareparts. Sensitivity of safe switch could be adjusted according to demand. Welding of Robot torch proceed in much safer and more reliable condition.

# PRODUCT ADVANTAGES

- Sense 360° bump deviation in all directions
- Stop instantly against bumping
- Design of precise buffering area reduce halting time
- Portable structure, fast and convenient maintenance

# ROBO **Anti-collision device**

# **HIT100**

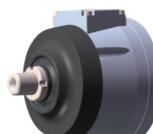


BA03-20-001 HIT100/independence/3kg BA03-20-002 HIT100/independence/5kg

# Technical Parameter

Size: Maximum outer diameter175mm, height50mm Weight: approximately 530 g Trigger pressure: approximately 3KG in the X and Y axis directions, and approximately 30KG in the Z axis directions, approximately 5KG in the X and Y axis directions, and approximately 45KG in the Z axis direction Maximum offset: approximately 10 ° in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around4° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: 30V DC 0.1A

# **HIT200**



Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around 1.5° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: 30V DC 0.1A



Description

### Purchase number

Description

BA01-20-001	HIT200/independence/5kg
BA01-20-002	HIT200/independence/10kg
BA01-20-003	HIT200/independence/15kg

### Technical Parameter

Size: Maximum outer diameter83mm,height90mm Weight: approximately 810 g

Trigger pressure: approximately 5KG in the X and Y axis directions, and approximately 45KG in the Z axis direction approximately 10KG in the X and Y axis directions, and approximately 85KG in the Z axis direction approximately 15KG in the X and Y axis directions, and approximately 155KG in the Z axis direction Maximum offset: approximately 15° in the X and Y planes;



The ROBOT Anti-collision device has a powerful anticollision function, and its sensitive safety switch ensures the safe welding work. It always protects faster robots with stronger power, and workpieces that are prone to collision factors.

# **PRODUCT ADVANTAGES**

- High flexibility and direct access to the best location
- Convenient installation, simple operation, and reducing repair and maintenance costs
- Reasonable buffer design for all-round protection
- Precise buffer zone, high reset precision, all for safe production

# ROBO **Anti-collision device**

# **iHIT** mini





Size: Maximum outer diameter85mm,height89mm Weight: approximately 650 g Trigger pressure: approximately 3KG in the X and Y axis directions, and approximately 30KG in the Z axis direction approximately 5KG in the X and Y axis directions, and approximately 45KG in the Z axis direction Maximum offset: approximately 10 ° in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around1.5° The deviation of the Z axis is around 1mm

# **iHIT**



Size: Maximum outer diameter100mm, height 80mm Weight: approximately 800 g Trigger pressure: approximately 3KG in the X and Y axis directions, and approximately 30KG in the Z axis direction Maximum offset: approximately 10 ° in the X and Y planes; Approximately 5mm in the Z plane Instant stop: The deviation between X axis and Y axis is around 1.5° The deviation of the Z axis is around 1mm Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: DC12V 2A



### Purchase number

Description

# BA02-30-002 BA02-30-003

iHITmini/3kg iHITmini/5kg iHITmini/7.5kg

### Technical Parameter

Repeatability: less than 0.3mm (at 300mm from the robot flange) Safety switch: DC12V 2A

### Purchase number

Description

### BA02-31-001

### iHIT/3kg



# MTCS2000 Structure :



**MINOO** multi-functional cleaning station has functions of cleaning, wire cutting and spraying anti-spatter agent. Each function can be independently controlled. It can feedback signals of reamer retraction, clamp and release, and wire cutting retraction. It's also equipped with a torch calibration device and stand. The cleaning station is compatible with all brand of welding robots in the market.

# SPECIFICATIONS

Air source pressure: Oil-free compressed air 0.6~0.8Mpa Air supply connection size: Connector Ø8 Control signal: DC 24V External system interface: 9-hole aviation socket Welding torch cleaning cycle: ≤5s Wire cutting cycle: ≤2s Anti-spatter agent spraying cycle: ≤3s Wire cuting perfomance: Maximum Ø2.0mm steel wire Size: 248\*283\*955mm Weight: 22KG

### Shanghai Innotec Welding Technology Co., LTD.

- Building 8 No.116 Cheyang Road, Songjing District, Shanghai
- **\$** +86 (021) 54883220,34305197
- ➡ +86 (021) 54883224

www.minoo-cn.com

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# MTCS3000 Structure :



**MINOO** multi-functional cleaning station has functions of cleaning, wire cutting and spraying anti-spatter agent. Each function can be independently controlled. It can feedback signals of reamer retraction, clamp and release, and wire cutting retraction. It's also equipped with a torch calibration device and stand. The cleaning station is compatible with all brand of welding robots in the market.

# SPECIFICATIONS

Air source pressure: Oil-free compressed air 0.6~0.8Mpa Air supply connection size: Connector Ø8 Control signal: DC 24V External system interface: 9-hole aviation socket Welding torch cleaning cycle: ≤5s Wire cutting cycle: ≤2s Anti-spatter agent spraying cycle: ≤3s Wire cuting perfomance: Maximum Ø2.0mm steel wire Size: 274\*276\*949mm Weight: 23KG

### Shanghai Innotec Welding Technology Co., LTD.

- **Q** Building 8 No.116 Cheyang Road, Songjing District, Shanghai
- **L** +86 (021) 54883220,34305197
- **∞** +86 (021) 54883224

www.minoo-cn.com



**ology Co.,LTD.** Jjing District,Shanghai

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