

HK-7W-F Full Position Oscillating Automatic Welding Carriage

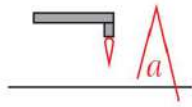
- Reduce labor intensity and improve working environment
- Improve work efficiency, 1.5 times that of manual welding
- Avoid poor quality welds caused by human factors. Usually manual defect rate is about 20%. The use of an automatic welding carriage did not result in a poor welding rate. So the overall efficiency than manual welding increase of nearly 200%.
- High degree of automation to ensure the stability of welding quality
- Unskilled workers can also quickly master the operation. The HK-7W-F full position oscillating automatic welding carriage was developed on the basis of a standard fillet carriage to obtain a large weld joint and one-process welding. It combines the simplicity and lightness of the standard fillet carriage, and further improves the welding efficiency.



Application:

- Trailer manufacturing
- Tank truck
- Oil tank
- Water storage tank
- Transformer
- Shipyard
- Any application requiring electric welding and continuous fillet welds

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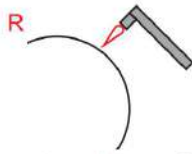
Oscillating angle $\pm 10^\circ$



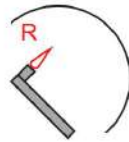
Horizontal welding speed
50–700mm/min



Vertical welding speed
50–600mm/min



External welding of tank
Minimum diameter $R \geq 1500\text{mm}$



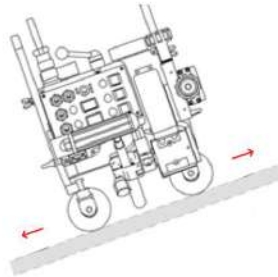
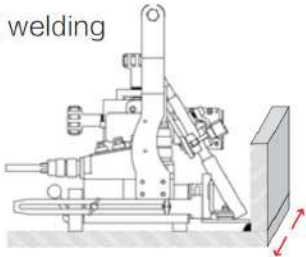
Internal welding of tank
Minimum diameter $R \geq 1500\text{mm}$



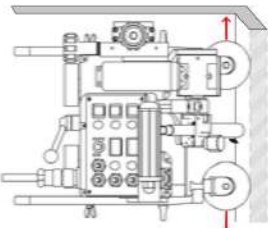
Weight 9.3kg

Applicable welding:

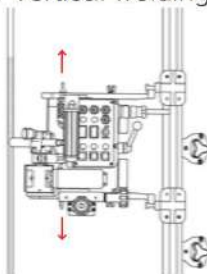
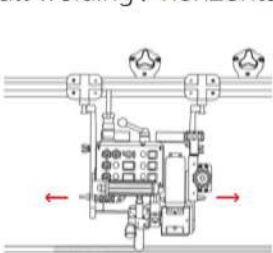
Flat fillet welding



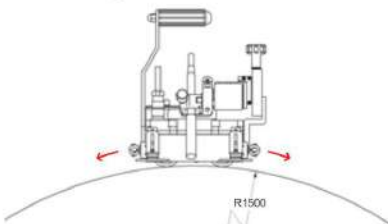
Vertical fillet welding



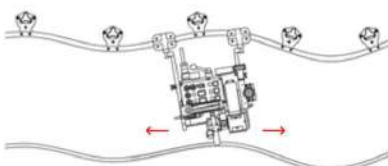
Plane butt welding、horizontal welding、vertical welding



Tank welding, Minimum diameter $R \geq 1500\text{mm}$



Curve welding on 3D track

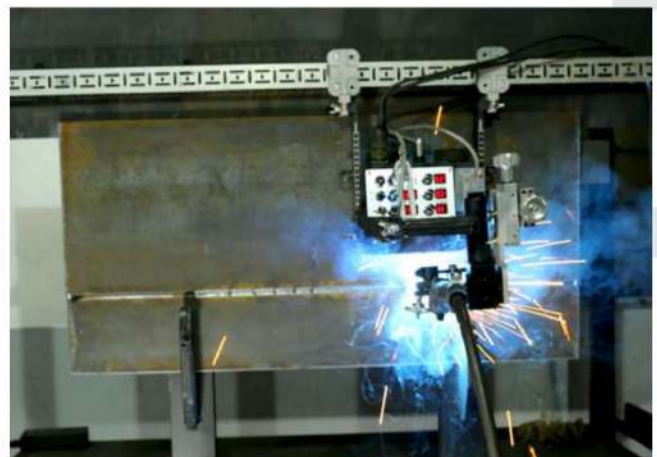
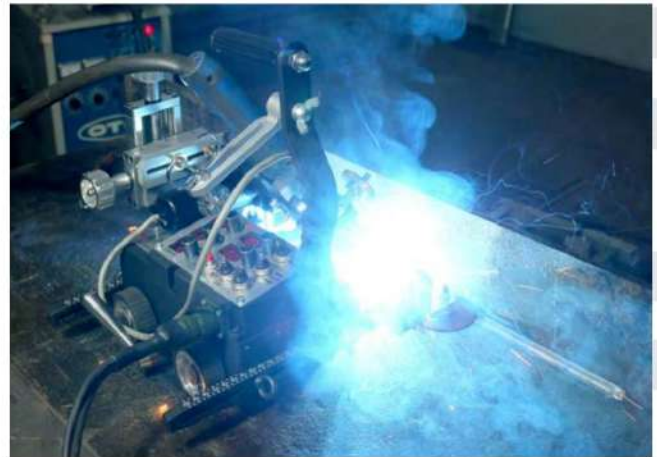
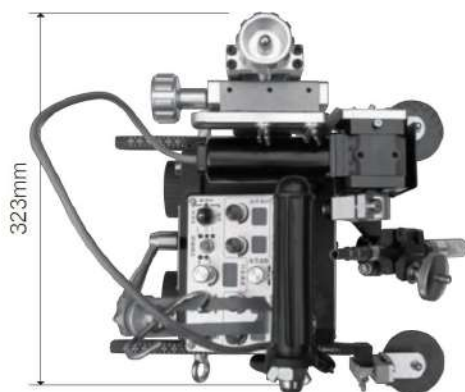
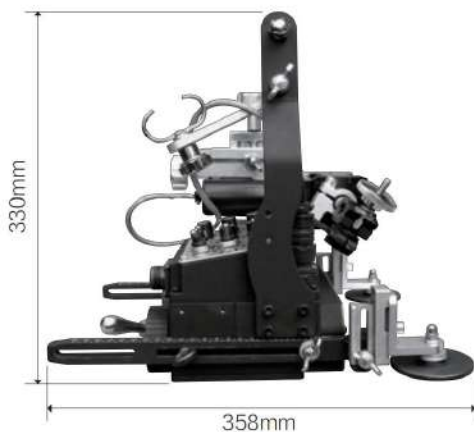


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Main features and benefits:

- Compact, lightweight design with durable cast aluminum housing
- Convenient and easy to find power 220v AC and mobile battery
- Magnetic traction ensures the machine in close contact with the workpiece for welding work
- Magnetic switch good for workpiece setting and adjustment
- 4-wheel drive, maintenance free
- Heat resistant silicone wheel
- Automatic arc switch for simultaneous welding and travel
- Self-guided roller arm guides the machine to follow the weld

Machine size:





Part Name:

- | | |
|--------------------|-----------------------------|
| ① Cable anchor | ② Torch position adjuster |
| ③ Torch oscillator | ④ Connector of torch holder |
| ⑤ Torch holder | ⑥ Guide wheel |
| ⑦ Handle | ⑧ Control box |
| ⑨ Control socket | ⑩ Clutch handle |
| ⑪ Guide bar | |

The main technical parameters:

Dimensions	323X358X330 mm	
Machine weight	9.3Kg (including the oscillator)	
Lithium battery and connecting plate set	1.5Kg (optional)	
Package dimensions	600X385X420 mm	
Package weight	15.5Kg	
Input voltage	220V AC 50/60Hz	
	DC24V / 4AH capacity lithium battery (optional)	
Oscillating motor	DC24V	
Drive mode	Four wheel drive	
Welding speed	50 ~ 700mm/min	
Torch adjustment range	Up and down	50mm
	Forward and backward	50mm
	Torch holder adjustable angle	± 45°
Oscillating parameter	Oscillating angle	± 10°
	Left and right stay time	0 ~ 2.5S
	Offset distance setting	0 ~ ± 8°
	Oscillating speed	0 ~ 99
	Oscillating angle	± 10°
Oscillating mode selection		

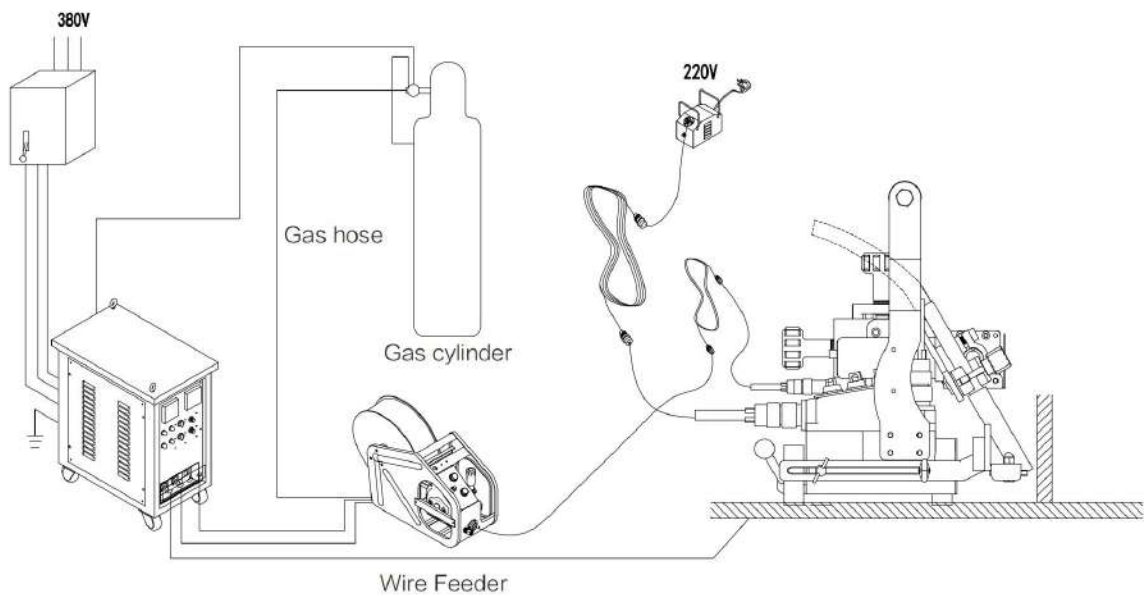
Welding carriage connections:



220V voltage power connection:



Lithium battery connection:



Machine standard accessories:



Main machine body



Oscillator



Torch holder
Connection holder



Guide bar
(270mm)



Guide wheel
($\Phi 70\text{mm}$)



Cable anchor



Power box assembly
($2\text{m}/3 \times 0.75\text{mm}^2$)



Power cable
($20\text{m}/2 \times 0.75\text{mm}^2$)



Wire Feeder cable
($5\text{m}/2 \times 0.75\text{mm}^2$)



Allen wrench
(1 set)



Fuse
220V/2A (2 piece)



1 instruction manual
1 certificate

Optional:



DC24V / 4AH capacity lithium battery
(8 hours)



Mobile battery connection board set



Lithium battery cable
($0.5\text{m} / 2 \times 0.75\text{mm}^2$)



Lithium battery charger



Guide rails and wheel
(straight, 2D, 3D rails)



Linear guide
(1.8m, linear guide, 3 magnets)

Packing size: $1800\text{mm} \times 160\text{mm} \times 130\text{mm}$
Package weight: 9Kg



2D rail
(1.8m, flexible rail, 8 magnets)

Packing size: $1860\text{mm} \times 215\text{mm} \times 100\text{mm}$
Package weight: 4.3Kg



3D rail
(1.5m, flexible rail, 5 magnets)

Packing size: $1560\text{mm} \times 215\text{mm} \times 100\text{mm}$
Package weight: 3.5Kg



Straight guide wheel installation diagram



2D guide wheel installation diagram



3D guide wheel installation diagram



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