





Part Name:

- Hand wheel for front-and-rear fine adjustment
- Electric step-up/step-down regulator
- 6 Electric step-up/step-down regulator connection line 6 Handle
- Cable anchor
- Walking carriage

- Torch holder
- Vents
- Hand wheel for left and right fine-tuning
- Remote control (control system)

Main technical parameters:

Dimensions	250X400X210 mm		
Machine weight	12Kg (including the oscillator)		
Package dimensions	600X375X405 mm		
Package weight	20.5Kg		
Input voltage	220V AC 50/60Hz		
Oscillating motor	Stepper motor		
Drive mode	Magnetic wheel drive		
Welding speed	50 ~ 700mm/min		
Torch adjustment range	Up and down	25mm	
	Forward, backward	360°	
Oscillating parameter	Left and right stay time	0-2.5S	
	Oscillating speed	0~100	
	Oscillating distance	±50mm	



Wire feeding power supply device (Original imported wire feeder)



HiArc M350A / M500A (Original imported)

Pipeline all-position automatic welding machine's walking carriage:

- Applicable pipe diameter: 130mm and above
- Applicable wall thickness: 4–50mm.
- Applicable materials: carbon steel, stainless steel, alloy steel, low temperature steel, etc.
 (The stainless steel is equipped with a corresponding track)
- Applicable welds: various pipe section welds, such as pipe-pipe welds, pipe-elbow welds, pipe-flange welds, (dummy pipe transition connection is adopted if necessary)
- Drive system; stepper motor wheel worm and gear drive;
- Speed adjustment mode: adjust the speed through the "+" and "-" buttons;
- Adjustment mode: electric control:
- Oscillating system: our company's proprietary technology "stepper motor oscillation";
- Control system: our company's proprietary technology: digital control

Wire feeding power supply device of pipeline all-position automatic welding machine:

- The wire feeder can use a filler wire with the diameter among 0.8mm to 1.6 mm, and the diameter of
 the wire coller can be up to 300mm with the width reaching 105mm. When the filler wire is selected, it
 should be noted that the melting point of the wire is roughly the same as that of the base material to be
 welcted.
- Caution: when replacing the filler wire, be sure to check whether the shapes and sizes of the wire feed
 roller & wire feed roller groove and the guide wire liner pipe match with the wire used. Besides, it is also a
 must to check whether the potarity used is suitable for the filler wire.
- The user can adjust the pressure of the wire feed roller on the wire feeding mechanism to make the filter wire enter the wire guide pipe and the welding torch smoothly and stably.
- To increase the pressure of the wire feed roller, you can turn the black pressure adjustment knob clockwise.
- To reduce the pressure of the wire feed roller, you can turn the black pressure adjustment knob counterclockwise.
- The adjustment knob is engraved with a pressure adjustment range. The greater the pressure used, the more prominent the marked scale will be.
- For hard carbon steel and stainless steel filer wire, be sure that the pressure set is large enough so as to prevent the filler wire from falling off the wire feed roller.
- Note: Excessive pressure can easily cause deformation and damage of the filler wire, and it can also
 easily rub or damage the drive wheel bearing, and thus shortens its service life. There are two different
 sizes of grooves in the drive wheel. The user can open the fastening screw of the drive wheel and rotate
 the groove required to rotate the drive wheel. The groove used mostly is facing outward.

HiArc M350A / M500A kemppi welding inverter:

Technical Parameters:

HiArc		M 350A	M 500A
Power voltage	3~,50/60 Hz	380V(-10%-+15%)	380V(-10%-+15%)
Rated power at maximum current	60% ED	14.3 kVA	24.5 kVA
	100% ED	10 kVA	17 kVA
Supply current	I, maximum value	22 A	37 A
6.4 1/4	I, RMS	17 A	29 A
Output, at 40°C	60% ED	350 A / 31.5 V	500 A / 39.0 V
	100% utilization factor	270 A / 27.5 V	390 A / 33.5 V
Fuse (time-delay)	j ()	20 A	35 A
Open circuit voltage		50~60 V	60~70 V
60% power factor		0.88	0.92
100% power		87%	87%
Welding range		13~35 V	13-35 V
External size	L × W ×H	647 × 385 × 485mm	716 × 385 × 485mm
Weight		36 kg	41 kg
EMC rating	This product is classified as Class A electromagnetic compatibility		
Protection level		IP23S	IP23S
Gas heating link		36 V/150 W	36 V/150 W



Pipeline all-position automatic welding machine:

Working principle

It realizes the all-position automatic welding of pipeline through the fixed pipe and the walking welding carriage. The welding process adopts high-efficiency and low-cost CO2 gas shielded welding.

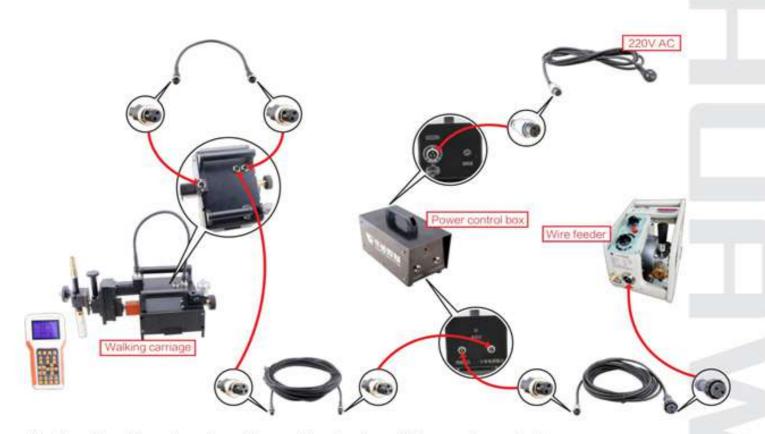
Structure overview and description

The pipeline all-position automatic welding machine consists of four parts: control system, welding carriage, welding power, wire feeding device and accessories.

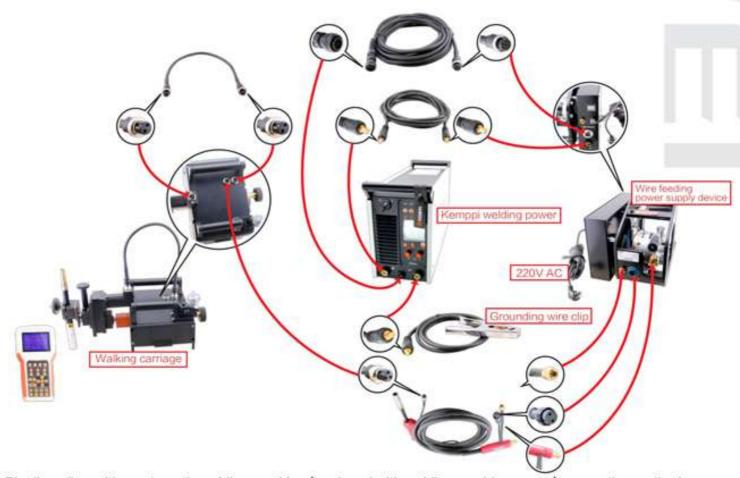








Pipeline all-position automatic welding machine (basic model) connection method



Pipeline all-position automatic welding machine (equipped with welding machine power) connection method

HK-11WG pipeline all-position automatic welding machine assembly 1: (Basic model)



Walking carriage





(control system) (including front-and-rear fine adjustment)



Power control box



Oscillation correcting line (0.5m/2×0.75mm²)



(2.5m/3 × 0.75mm²)



(20m/2 × 0.75mm²)



Welding carriage connecting line. Welding torch connecting line (5m/2 × 0.75mm²)



Fuse



Allen wrench



Certificate

HK-11WG pipeline all-position automatic welding machine assembly 2: (Equipped with welding machine power)



Walking carriage



Kemppi M500A welding inverter (Original imported)



Wire feeding power supply device (The wire feeder is original imported)



Remote control (Control system)



Oscillator (Including front-and-rear fine adjustment)



{ 15m/7 × 0.5mm² }



Welding machine's signal line. Welding cable connecting line. (.10m/35mm¹)



Oscillation connecting line (0.5m/2×0.75mm²)



(1.5m/35mm²)



CO2 welding forch (5m)



Fuse



Alien wrench



Instruction manual Certificate