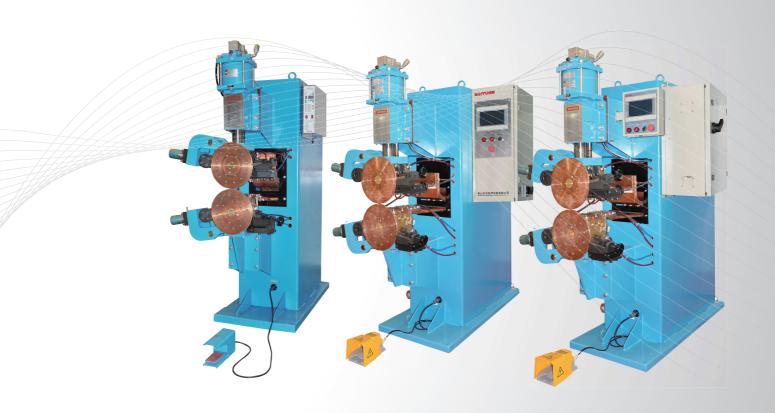


Seam Welder

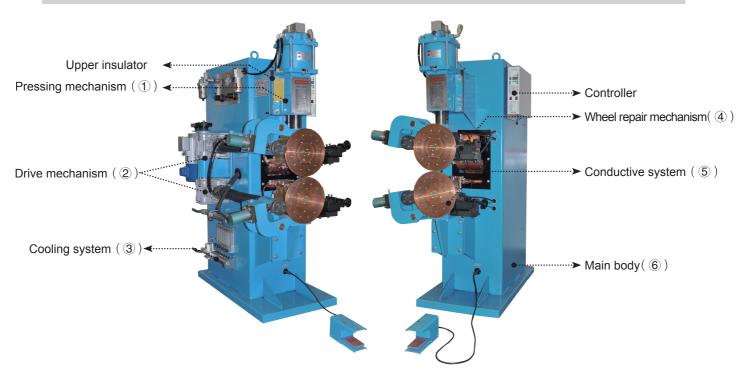


KAIYUAN WELDING & CUTTING AUTOMATION INDIA PVT., LTD.

Single Phase AC Seam Welder

For continuous or discontinuous seam welding on MS, SS, Ti, Ti alloy, GA plate etc.

Structure and traits



- Pressing mechanism: Vertical type pressure mechanism has good follow-up performance, low noise and long life.
- Drive mechanism: Driven by 3 phase variable frequency motor. Easy adjustment and running stable. Exclusively circumference synchronization technology ensured the welding speed will not change along with the dia. of welding wheel. Stable welding speed guaranteed the welding quality.
- Cooling system: Parallel cooling water route is used in this machine. Every route is adjustable separately. Special welding head cooling structure. Warning function is working through water flow detector.
- Wheel repair mechanism: It can cut profiling the outer edge of the welding wheel without dismantling the wheel. Good surface condition ensured the high welding quality.
- Gonductive system: Conductive shaft adopt silver device. Well contact and automatic compensation for wearing clearance. Maximum reduced the loss of energy transfer. Conductive surface be soaked in the conductive solution reducing the wearing.
- Machine body: Anti-vibration, anti-shock; Avoid the electrode sliding during pressure. Stable welding.

Main specification

•						
Model	Single phase AC seam welder					
Item (unit)	FN-100SA	FN-160SA				
Rated capacity (kVA)	100	160				
Rated voltage (V)	380	380				
Rated duty cycle(%)	50	50				
Rated frequency(Hz)	50/60	50/60				
Max. short current (kA) (duty cycle)	25(28.7%)	30(30.9%)				
Continuous output current(kA)	13.4	16.7				
Max. pressure(N)	12000	12000				
Throat size(mm)	130×430	130×430				
Electrode stroke(mm)	80	80				
Cooling water flow(L/min)	36	36				
Speed of welding whee (m/min)	0.55 ~ 3.5	0.55 ~ 3.5				
welding capacity (MS)	1.5+1.5	2+2				
Net weight(kg)	900	900				

Single Phase AC Seam Welder

Feature

- Suitable for single phase AC spot/projection welder and seam welder.
- Closed-loop controlled by CPU during welding. Welding current is stable even the fluctuation of power supply there. Welding quality guaranteed.
- Both CC and CV function available.
- Both single spot weld and continuous spot weld available.
- 3 pulses welding can be controlled.
- Current upslope and downslope.
- Count the welding spots.
- Monitor the actual voltage of the power supply.
- Monitor the actual welding current (CC mode).
- Two type of current feedback: Welding transformer primary side and secondary side.
- Automatic self-diagnosis, display Error number for any abnormal condition.
- Maintain data after power off. The data will keep up to 10 years after power off.
- Interface for power on authorization, convenient to limit the power capacity.



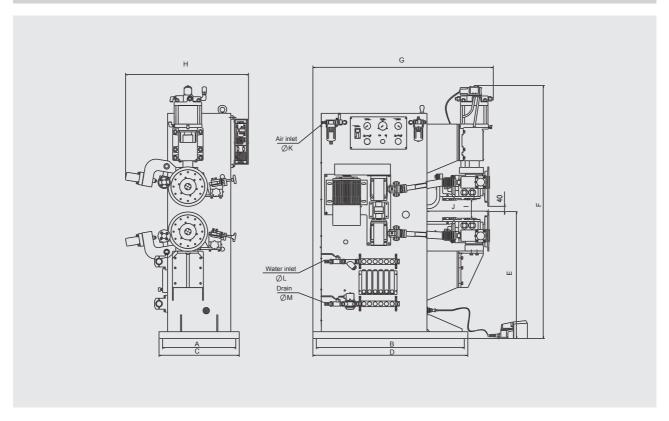


Specification

	Items		Resistance Welding Controller
	ModeMode		KCT01
(Control factor / times	_	4/15 parameters / 3 times pulse control
	ssure valve drive output	-	2 pc of pressure valves, DC 24V
	Feedback mode	-	Welding transformer primary side / secondary side
	Rated input voltage	V	415V / 1 phase, ±10%
	Frequency	Hz	50/60
	Pressure	-	Pressure valve 1
	parameter	-	1 - 15
	Initial pressure delay	cycle	0 - 199
	Initial pressure time	cycle	1 - 199
	Current upslope time	cycle	1 - 199
	Pre-heat time	cycle	0 - 199
	Pre-heat current	X 100 A	20 - 199
	First cooling time	cycle	0 - 199
	Welding time	cycle	0 - 199
	Welding current	X 100A	20 - 199
Control	Second cooling time	cycle	0 - 199
parameter range	Reweld time	cycle	0 - 199
range	Reweld current	X 100A	20 - 199
	Current downslope time	cycle	0 - 199
	Hold time	cycle	1 - 199
	Off time	cycle	0 - 99
	Transformer turn ratio	M	1 - 99
	Number of welding circuit	-	1 - 4
	Over current limitation	-	5 – 99%
	Under current limitatin	-	5 – 99%
	Repair welding control if under current limitation		1 / 1 time repair welding allowed, 0 / No repair welding allowed
Suit	able welding power source	-	Thyristor
	Start mode	-	Pulse start, Normal start
	Welding Mode	-	Spot / projection, Seam
	Keep ending signal	-	Built-in
	Power signal	-	Build-in
Pov	ver on authorization signal	-	Build-in
	Monitor function	-	Count spot, welding current, current ratio etc.
	Count function	-	Count welding spots
Rı	unning mode switching	_	Welding/adjustment, discontinuous/continuous

Single Phase AC Seam Welder

Overall dimensions (mm)



Model	А	В	С	D	Е	F	G	Н	I	J	К	L	М
FN-100SA	520	1050	570	1100	900	1800	1285	880	130	430	12	20	20
FN-160SA	520	1050	570	1100	900	1800	1285	880	130	430	12	20	20

Customer prepare

Item (unit)	Model	FN-100SA	FN-160SA				
	Input voltage(V)	3 phase 415±10%					
Dower aupply	Power capacity(kVA)	According to welder power cap	acity (refer to rated specification)				
Power supply	Breaker capacity(A)	200	315				
	Cable size(mm²)	≥70	≥95				
	Water pressure(MPa)	0.3~0.5					
	Cooling water flow(L/min)	36	36				
Caalling water	Water temperature($^{\circ}$ C)	10 ~ 30					
Coolling water	Water resistivity(kΩ·cm)	5 above					
	Hose size for water supply(mm)	φ20					
	Hose size for drain(mm)	φ20					
Compressed air	Air pressure(MPa)	0.5~0.7					
Compressed air	Hose inner size(mm)	φ12	φ12				
Earthing cable	Earthing cable(mm²)	≥35	≥50				

For continuous or discontinuous seam welding on MS, SS, Al, Al alloy, Ti, Ti alloy, GA plate etc.

Structure and traits



- Pressing mechanism: Vertical type pressure mechanism has good follow-up performance, low noise and long
- 2 Drive mechanism: Driven by 3 phase variable frequency motor. Easy adjustment and running stable. Exclusively circumference synchronization technology ensured the welding speed will not change along with the dia. of welding wheel. Stable welding speed guaranteed the welding quality.
- Cooling system: Parallel cooling water route is used in this machine. Every route is adjustable separately. Special welding head cooling structure. Warning function is working through water flow detector.

 Power source: Input is three phase 415V. The invert
- frequency is 5000Hz with high power factor. The

- accuracy of current adjustment will be millisecond level. Secondary side output is square wave without AC peak and current discountinuity. No polarity effect.
- Wheel repair mechanism: It can cut profiling the outer edge of the welding wheel without dismantling the wheel. Good surface condition ensured the high welding quality.
- Conductive system: Conductive shaft adopt silver device. Well contact and automatic compensation for wearing clearance. Maximum reduced the loss of energy transfer. Conductive surface be soaked in the conductive solution reducing the wearing.
- Machine body: Anti-vibration, anti-shock; Avoid the electrode sliding during pressure. Stable welding.

Main specification

Model	MF Inverter AC Seam Welder					
Item (unit)	FB-100SA	FB-160SA				
Rated capacity (kVA)	100	160				
Rated voltage (V)	380	380				
Rated duty cycle(%)	50	50				
Rated frequency(Hz)	50/60	50/60				
Max. short current (kA) (duty cycle)	25 (29.5%)	30 (31.1%)				
Continuous output current(kA)	13.6	16.7				
Max. pressure(N)	12000	12000				
Throat size(mm)	130×430	130×430				
Electrode stroke(mm)	80	80				
Cooling water flow(L/min)	36	36				
Speed of welding whee (m/min)	0.55 ~ 3.5	0.55 ~ 3.5				
welding capacity (MS)	1.5+1.5	2+2				
Net weight(kg)	900	900				

Control system

Advanced inverter welding system.

Features

- Balanced three phase, reduced the input power of power supply, avoided any single phase instant over loading.
- Output frequency is 20 400Hz. Adjustment accuracy is millisecond. The welding current waveform can be programed based on the



welding material. Improved the welding quality with high thermal efficiency and low energy consumption. Stable welding quality.

- Max. 15 sets of welding parameters can be programmed and saved in the system.
- Three stages of heat process: Pre-heat, Welding and Rewelding. Current upslope and downslope can be adjustable in welding stage.
- Pressure is programmable with maximum 10 pressure stages.
- Programmable I/O interface: 3 stages can be programmable. Easy to connect with PLC or Robot.
- Have spot count and electrode repair function.

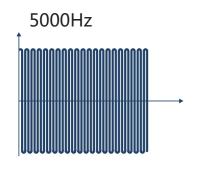
Program panel

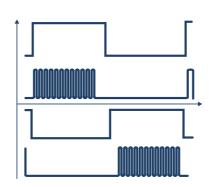
Excellent welding operation HMI

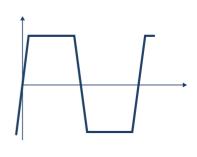


Features

- Colorful torch screen.
- Program and fault diagnosis.
- User authorization management.



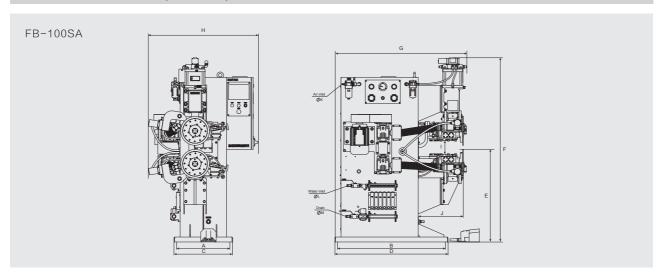


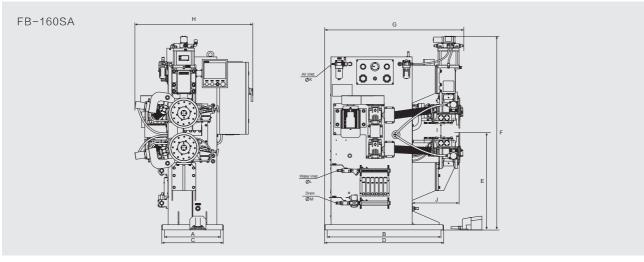


Main specifications

Item (unit) Model	SVF3-800 D	SVF3-800
Rated input (V)	3 phase 415V	3 phase 415V
Rated frequency (Hz)	50/60	50/60
Output voltage (V)	500	500
Inverter frequency (Hz)	5000	5000
Controller Max. output current(A)	800	800
Cooling water flow(L/Min)	6	6

Overall dimensions (unit:mm)





Model	Α	В	С	D	E	F	G	Н	1	J	K	L	M
FB-100SA	520	1050	570	1100	900	1800	1285	1065	130	430	12	20	20
FB-160SA	520	1050	570	1100	900	1800	1285	1090	130	430	12	20	20

Customer prepare

Item (unit)	Model	FB-100SA	FB-160SA				
	Input voltage(V)	3 phase 415±10%					
Dower ounnly	Power capacity(kVA)	According to welder power capacity (refer to rated specification)					
Power supply	Breaker capacity(A)	100	160				
	Cable size(mm²)	≥35	≥50				
	Water pressure(MPa)	0.3 ~ 0.5					
	Cooling water flow(L/min)	36	36				
Coolling water	Water temperature(°C)	10 ~ 30					
Coolling water	Water resistivity(kΩ·cm)	5以上					
	Hose size for water supply(mm)	φ20					
	Hose size for drain(mm)	φ20					
Communication	Air pressure(MPa)	0.5~0.7					
Compressed air	Hose inner size(mm)	φ12	φ12				
Earthing cable	Earthing cable(mm²)	≥16	≥25				



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