



for Welding Excellence

# Submerged Arc Welding Products

With IGBT Based Inverter Power Source

25 Years  
Consistency in Quality  
Innovation



AUTOMATIC SAW UNIT TRACTOR MOUNTED TYPE.

**MODEL : SAC - 110**

### Special Features For Power Source :

- Welding parameters can be preset.
- Both constant voltage and constant current characteristics.
- Wide range of output current.
- Adjustable arc force, welding current, welding voltage.
- MMAW / Air Carbon Arc Gouging / Submerged Arc. Welding possible with suitable accessories.
- Protective functions : Over current, Under voltage, Overload, Phase failure.
- Automatically recognize for short circuiting, wire retract facility.

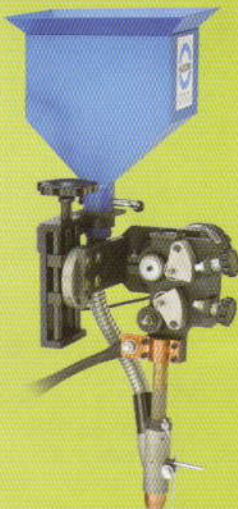
### Technical Specifications For Power Source :

Model	SAC-600	SAC-800	SAC-1000	SAC-1250
	IGBT	IGBT	IGBT	IGBT
Rated Input Voltage	3 Phase, 415VAC, ± 10%, 50/60Hz			
Rated Input current (A)	48	64	80	100
Rated Input Power (KVA)	32	42	52	65
No-load voltage (OCV)	90 VDC			
Voltage Range (VDC)	22-44	22-44	23-45	23-45
Current Range (A)	160-600	160-800	160-1000	160-1250
Duty Cycle	100%	100%	100%	100%
Wire Dia.(mm)	1.6 - 3.2	2.4 - 5.0	3.2 - 6.0	3.2 - 6.0
Efficiency	≥ 0.85			
Power Factor	≥ 0.90			
Insulation Grade	Class F			
Case protection Grade	IP 21 S			
Dimension (L x W x H) (mm)	680 x 320 x 630		780 x 390 x 800	
Net Wt. of Power source	68 Kg	90 Kg	125 Kg	125 Kg

HC - 110



HB - 110 B



AUTOMATIC SUBMERGED ARC WELDING HEAD FOR BOOM MOUNTING. **MODEL : HB - 110 B**

### Special Feature:

Fit for different welding positions, especially deep groove and fillet joints and easily can be fitted for automation.

Sr.no	Items	HC - 110 / HB - 110 B
1.	Voltage of tractor and wire feeder	DC110V
2.	Welding speed range	0.2-2.2 mtr / min
3.	Wire feeding speed range	0.3-3.0 mtr / min
4.	Rated current of power source	600A - 1250A
5.	Wire diameters	2.0 - 6.0
6.	Adjustable distance of tractor head	100×100×70 mm
7.	Volume of flux container	6L
8.	Wire spool capacity	25 kg

# Submerged Arc Welding Products

AUTOMATIC SUBMERGED ARC WELDER  
FOR INTERNAL WELDING. **MODEL : HC - 110 C**

**Special Features:**

- It is most compact.
- Can also be used for internal welding of pipe upto min. dia 700mm.
- New style ,light weight and user friendly.
- Suitable with wire diameters from 1.6 –2.4mm .
- Most suitable for fillet welding of I-section, Channel and Beam-section steel.

AUTOMATIC SUBMERGED ARC WELDER  
DECK TYPE. **MODEL : HC - 110 D**

**Special Features:**

- Does not require rails.
- Can be used for welding seams of lap, butt and fillet joints.
- Most suitable with wire diameters from 2.0 to 5.0 mm.
- Besides Linear welding, the Tricycle tractor can weld around Circular seam, deck welder for shipyard.
- Easily adjustable flux container for fillet joints.

AUTOMATIC SUBMERGED ARC WELDER  
FOR DEEP GROOVE JOINT. **MODEL : HC - 110 A**

**Special Features:**

- Fit for different welding positions, especially deep groove and fillet joints.
- Wide welding range, compatible for wires  $\Phi 2.0$  to  $\Phi 5.0$ .
- Vertical column 0-45° inclinable and welding possible on inclined plate surface.



HC - 110 C



HC - 110 D



HC - 110 A

Sr.no	Items	Specifications	
		HC-110 A / D	HC-110 C
1.	Voltage of tractor and wire feeder	DC110V	
2.	Welding speed range	0.2-2.2m/min	
3.	Wire feeding speed range	0.3-3.0mtr/min	0.3-6.0mtr/min
4.	Rated current of power source	600A - 1250A	600A
5.	Wire diameters	2.0 - 6.0	1.6 - 2.4
6.	Rotatable angle of cross beam	±90°	-
7.	Welding torch inclination	±45°	-
8.	Welding head inclination	±90°	-
9.	Adjustable distance of tractor head	100×100×70mm	
10.	Volume of flux container	6L	2L
11.	Wire spool capacity	25kg	12.5kg
12.	Dimension (L×W×H)	1020×470×700	-
13.	Weight	58kg	-



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( In view of continuous development, we reserve the right to modify the design and / or dimensions without notice)