

### CO<sub>2</sub> Semi Automatic Welder

# SANAUTO

SanRex CO2 semi Automatic Welding machine has always been most favoured among leading manufacturers, with its excellent performance and quality, since the start of sales. SanRex has continued its research and development, based on user's needs, in search of high performance and high quality welding machine. The results are these excellent CO2 semi automated welders, SANAUTO SD series.

- This equipment has various features which enables any operator to perform high-quality welding operations quite easily.
- The torch is light and easy to use, reliable even after long hours of operation.
- · Trouble is minimized and maintenance is readily accessible
- This new SANAUTO SD series employs the solid state control system by thyristor, which includes various features: good arc start, supply voltage compensation, stabilized arc, etc. This machine can satisfactory help to reduce manpower for welding work in the factory.



### Features

### Good Arc Start

The new SanRex CO2 semi automatic welding machine incorporates Sansha Electric's oringinal arc start compensating circuit and control system which prevents beads from generating at the wore end after completion of the welding operation, enabling a better arc start performance.

#### Stable Welding Conditions

A built-in output stabilizer circuit maintains stable welding conditions even when supply voltage and ambient temperature vary. In particular, a thyristor is employed for the main circuit, so the arc has excellent stability in a short arc region, thus creating its outstanding performancein steel sheet welding.

Allowable range of fluctuation of input voltage is within ± 10% of the rated voltage.

#### Light, Easy-to-use Curved Torch

The torch is lightweight, well-balanced and can be easily adjusted to all angles, thus producing excellent working efficiency. Additionally, it is constructed so that the inner tube can be easily cleaned and replaced. It's many other features include light and strong cable resisting the severest bending and impulses, etc.

#### High Reliability and Safety Design

In case of open phase operation and overload, the newly designed PCB has built-in over-voltage and thermal protection (a protective device for abnormal temperature rise). To assure satisfactory use of machine, every component part is manufactured under the most strict quality control.

#### Excellent Thyristor Circuit Incorporated

An excellent thyristor circuit developed by Sansha Electric enables the noncontact system, resulting in no operation downtime due to contact wear. Since the control circuit is assembled as unit and arranged at the front of the power source unit, it is readily accessible for maintenance and inspection.

#### Light Weight, Robust Wire Feeder

The wire feeder is compactly designed, lightweight and easy to carry. The wire feeder has a spool shaft which is capable of replacing a wire at touch A powerful print motor is provided to ensure wire feeder, and this feeder has many other specific features, including a wire correction mechanism for keeping the wire straight.

### Protective Cover for Wire

This cover prevents dust and dirt from sticking to wire, thus maintaining the wire in an optimum condition.

#### Enable to connect to Robot for Auto Welding (optional)

With this new feature, the welding machine can be connected to robot for auto welding with external control for auto stop, alarm signal and output adjustment signal for current control.

Welder Model	MD-2002CY	MD-3502CY	MD-5002CY	MD-6001CY	
Welder Power Source	SD-2002CY	SD-3502CY	SD-5002CY	SD-6001CY	
Wire Feeder Type	SWF-2002CY	SWF-3502CY	SWF-5002CY	SWF-6001CY	
Welding Torch Type	SanRex200A	SanRex350A	SanRex500A	SanRex600A	
CO2 Gas Flow Regulator		394C-25L-110			

# Welder Specification

Model		SD-2002CY	SD-3502CY	SD-5002CY	SD-6001CY
Input Voltage	V	AC 380V / 415V			
Phase		3-Phase			
Frequency	Hz	50 / 60			
Rated Input Capacity	kVA	7.9	17.3	31.6	47.6
Output Current	A	50~200	50~350	60~500	60~600
Output Voltage	V	15~27	16~36	16~45	17~44
Rated Duty Cycle	%	60	50	60	60
Type Of Rectification		3-Phase Double Star Commutation by Thyristor			3,300
Cooling System		Forced Air Cooling			
Outline dimensions (W x D x H)	mm	347×655×703		420×673×826	450×680×835
Weight	kg	94	117	166	245
Insulation Class					

# Wire Feeder Specification

Welder Power Source Wire Feeder Type		SD-2002CY		SD-3502CY	SD-5002CY	SD-6001CY		
		SWF-2002CY		SWF-3502CY	SWF-5002CY	SWF-6001CY		
Feeder Motor Typ		DC Print Motor						
Applicable Wire D	Diameter	mm	ø 0.8	ø 1.0	ø1.2	ø1.2~1.6		
Applicable Shaft Diameter Outside Diameter		mm	70:	0)		50		
		mm	300					
AAIIG LYGGI	Width	mm	103					
Length Of Cable ar	nd Hose	m	3					
Weight		kg	14					

# Welding Torch Specification

Welder Power Source		SD-2002CY	SD-3502CY	SD-5002CY	SD-6001CY	
Welding Torch Type		SanRex200A	SanRex350A	SanRex500A	SanRex600A	
Rated Current A		200	350	500	600	
Rated Duty Current	%	60	60	60	60	
Applicable Wire Diameter	mm	φ0.8	~1.2	ø 1.2∼1.6	ø1.2~1.6	
Cooling System		Natural Air Cooling				
Torch Shape		Swan Neck Type				
Cable Length	m	3				
Torch Weight	kg	0.65	0.85	1.6	1.8	

# Gas Regulator Specification

Welder Power Source		SD-2002CY	SD-3502CY	SD-5002CY	SD-6001CY
Wire Flow Regulator		394-25L-110			
Maximum Pressure	kgf/cm <sup>2</sup>	250			
Minimum Pressure	kgf/cm <sup>2</sup>	25			
Gas Heater Source	W	110V-190W			
Temperature	°C	65°C±3°C (OFF)			
Flow Meter Range	L/mm	1~25			

### Standard Accessories

Welder Power Source		SD-2002CY	SD-3502CY	SD-5002CY	SD-6001CY		
Protection	Туре	W. 3	FGBO 1A FGBO 8A 1. 8.				
Fuse	Rated Current	A					
Gas Hose			1 Length				
Hose Band		mm	ø11				
Welding Torch	Гуре		SanRex200A	SanRex350A	SanRex500A	SanRex600A	
Tip Size		mm	ø 0.8	ø 1.0	ø 1.2	φ1.2	
Nozzle		mm	ø 16	<i>∲</i> 16	ø19	ø 20 1只	
Gas Flow Regu	lator		394C-25L-110				