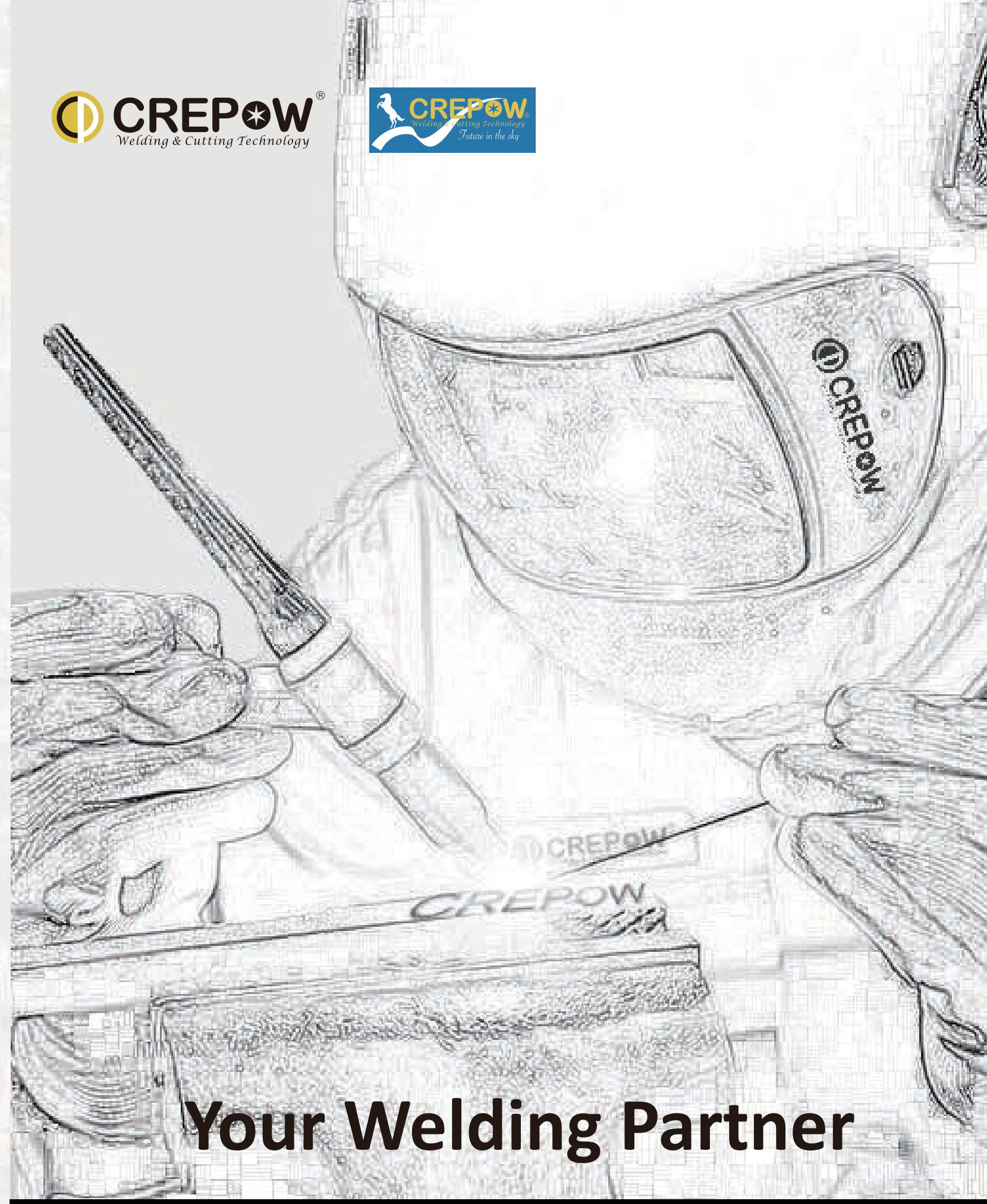




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ABOUT US

Crepow is welding supplier established in 2009. We are pleased to offer a comprehensive range of MIG welding, TIG welding, MMA welding, Plasma cutting, Welding accessories and Welding consumables. Our objective is to provide the highest quality products, with more features and innovation in global market. In product development, we use the latest technology and service.

Customer first and Quality life are our company principle. We not only have the professional R&D and sales teams, but also are familiar with OEM and ODM cooperation in export business. The products we provide comply with Asian and European quality standards, as well as Rohs standard.

We have CE and CSA certificates, and many products are featuring PFC and EMC, which makes us one step ahead of our competitors.

Constructions, Petrochemical Environments, Shipyards, Heavy and Medium size fabrication are the fields we are proudly serving with our welders, observing the highest standards on terms of local regulations and environmental protection



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Series	Page	Model	Double Pulse	Synergic	MIG/MAG	Flux-cord	STICK	HF TIG	AC TIG	DC TIG	Lift TIG	Spool gun	Push pull gun	Wire feeder type	Wire size (mm)	Input voltage (V)	Welding output range(A)
I Welding	P30	POWERMIG 200 LCD		■	■	■	■				■	■		Built-in	0.6-1.2	90-275	10-200
	P22	4 IN 1		■	■	■	■	■	■	■	■	■		Built-in	0.6-1.2	90-275	10-200
	P23	TrollyMIG 315		■	■	■	■				■	■		Built-in	0.8-1.2	380/400/415±15%	10-300
	P24	MULTIMIG 350		■	■	■	■				■	■		Separate	1.0-1.6	380/400/415±15%	10-350
	P24	MULTIMIG 500		■	■	■	■				■	■		Separate	1.0-1.6	380/400/415±15%	10-500
	P25	MULTIMIG 250 DP	■	■	■	■	■				■	■	■	Built-in	0.8-1.2	90-275	30-250
	P26	TROLLYMIG 3006 DP	■	■	■	■	■				■	■	■	Built-in	0.8-1.2	380/400/415±15%	30-300
	P27	MULTIMIG 350 DP	■	■	■	■	■				■	■	■	Separate	1.0-1.6	380/400/415±15%	30-350
	P27	MULTIMIG 500 DP	■	■	■	■	■				■	■	■	Separate	1.0-1.6	380/400/415±15%	40-500
	P28	MULTIMIG 400 MV		■	■	■	■				■	■		Separate	1.0-1.6	200-660	30-400
	P29	MULTIMIG 500 MV		■	■	■	■				■	■		Separate	1.0-1.6	200-600	40-500
	P Welding	P64	DELTA MIG 350			■		■							■	0.8-1.2	380/400/415±15%
P64		DELTA MIG 500			■		■							■	1.0-1.6	380/400/415±15%	60-500
P64		DELTA MIG 630			■		■							■	1.0-1.6	380/400/415±15%	60-630
P65		DELTA MIG 350S		■	■		■							■	0.8-1.2	380/400/415±15%	60-350
P65		DELTA MIG 500S		■	■		■							■	1.0-1.6	380/400/415±15%	60-500
P65		DELTA MIG 630S		■	■		■							■	1.0-1.6	380/400/415±15%	60-630
P66		DELTA MIG 350CL		■	■									■	0.8-1.2	380/400/415±15%	60-350
P66		DELTA MIG 500CL		■	■									■	1.0-1.6	380/400/415±15%	60-500
P66		DELTA MIG 630CL		■	■									■	1.0-1.6	380/400/415±15%	60-630
P67		DELTA MIG 280DP	■	■	■		■							■	0.6-1.0	380/400/415±15%	20-280
P67		DELTA MIG 350DP	■	■	■		■							■	0.6-1.2	380/400/415±15%	20-350
P67		DELTA MIG 500DP	■	■	■		■							■	0.6-1.6	380/400/415±15%	20-500
S Welding	P78	AUTOPOWER 120			■	■	■				■			Built-in	0.6-1.0	220/230/240±15%	20-120
	P78	AUTOPOWER 140			■	■	■				■			Built-in	0.6-1.0	220/230/240±15%	20-140
	P79	AUTOPOWER 160			■	■	■				■			Built-in	0.6-1.0	220/230/240±15%	20-160
	P79	AUTOPOWER 182			■	■	■							Built-in	0.6-1.2	220/230/240±15%	20-180
	P79	AUTOPOWER 200			■	■	■							Built-in	0.6-1.2	220/230/240±15%	20-200
	P79	AUTOPOWER 202			■	■	■							Built-in	0.6-1.2	220/230/240±15%	20-300

Series	Page	Model	DC TIG	AC TIG	Lift tig	Stick	Pulse (Hz)	Balance Control (%)	2T/4T	Input voltage (V)	Welding amperage range	Finger control	Foot pedal with cable
I Welding	P31	TIG200 DC PULSE PFC	■		■	■	0.1-999		■	90-275	3-200	■	■
	P32	TIG250-1 DC PULSE	■		■	■	0.1-999		■	220/230/240V±15%	10-250	■	■
	P33	TIG250-3 DC PULSE	■		■	■	0.1-999		■	380/400/415V±15%	5-250	■	■
	P34	TIG320 DC PULSE	■		■	■	0.1-999		■	380/400/415V±15%	5-320	■	■
	P35	TIG 400 DC PULSE	■		■	■	0.1-999		■	380/400/415V±15%	10-400	■	■
	P35	TIG 500 DC PULSE	■		■	■	0.1-999		■	380/400/415V±15%	10-500	■	■
	P36	TIG285 MV	■		■	■	0.1-999		■	90-500	5-285	■	■
	P37	TIG400 MV	■		■	■	0.1-999		■	200-660	5-400	■	■
	P38	TIG200ACDC PFC	■	■	■	■	0.1-999		■	90-275	3-200	■	■
	P39	TIG320 ACDC PULSE	■	■	■	■	0.1-999		■	380/400/415±15%	10-320	■	■
	P40	TIG400ACDC PULSE	■	■	■	■	0.1-999		■	380/400/415±15%	10-400	■	■
	P40	TIG500ACDC PULSE	■	■	■	■	0.1-999		■	380/400/415±15%	10-500	■	■
P Welding	P41	TIG 351 ACDC PULSE	■	■	■	■	0.1-999		■	380/400/415±15%	10-350	■	■
	P42	TIG285 ACDC MV	■	■	■	■	0.1-999		■	90-500	5-285	■	■
	P43	TIG200E DC PULSE	■		■	■			■	220/230/240±15%	10-200	■	■
	P44	TIG200E ACDC PULSE	■	■	■	■			■	220/230/240±15%	10-200	■	■
	P68	CLASSTIG 400	■		■	■			■	380/400/415±15%	10-400	■	■
	P68	CLASSTIG 500	■		■	■			■	380/400/415±15%	10-500	■	■
	P69	CLASSTIG 1000	■		■	■			■	380/400/415±15%	10-1000	■	■
	P70	CLASSTIG 250P	■		■	■			■	380/400/415±15%	10-250	■	■
	P71	CLASSTIG 320P	■		■	■			■	380/400/415±15%	10-320	■	■
	P71	CLASSTIG 400P	■		■	■			■	380/400/415±15%	10-400	■	■
	P71	CLASSTIG 500P	■		■	■			■	380/400/415±15%	10-500	■	■
	P72	CLASSTIG 320 AD	■	■	■	■			■	380/400/415±15%	10-320	■	■
S Welding	P72	CLASSTIG 400 AD	■	■	■	■	10-999	5-95	■	380/400/415±15%	10-400	■	■
	P72	CLASSTIG 500 AD	■	■	■	■	10-999	5-95	■	380/400/415±15%	10-500	■	■
	P73	CLASSTIG 800 AD	■	■	■	■	10-999	5-95	■	380/400/415±15%	10-800	■	■
	P80	CLASSTIG 161	■		■	■			■	220/230/240±15%	10-160		■
	P80	CLASSTIG 201	■		■	■			■	220/230/240±15%	10-200		■
	P80	CLASSTIG 200DSP	■		■	■			■	220/230/240±15%	10-200		■
	P80	CLASSTIG 200P	■		■	■			■	220/230/240±15%	10-200		■
	P81	CLASSTIG 202 ACDC PULSE	■	■	■	■			■	220/230/240±15%	10-200		■
P81	CLASSTIG 252 ACDC PULSE	■	■	■	■			■	220/230/240±15%	10-250		■	



MMA WELDING GUIDE



Series	Page	MMA	Stick	Lift tig	Arc force	Hot start	Anti-stick	Cellulose	Input voltage (V)	Welding amperage range
I Welding	P45	ARC200	■	■	■	■	■		220/230/240±15%	10-200
	P46	ARC200 PFC	■	■	■	■	■		90-275	10-200
	P47	ARC250-1	■	■	■	■	■		220/230/240±15%	10-250
	P47	ARC250-3	■	■	Adjustable	Adjustable	■		380/400/415±15%	10-250
	P45	ARC320	■	■	Adjustable	Adjustable	■		380/400/415±15%	10-320
	P48	ARC 400CEL	■	■	Adjustable	Adjustable	■	■	380/400/415±15%	20-400
	P48	ARC 500CEL	■	■	Adjustable	Adjustable	■	■	380/400/415±15%	20-500
	P49	ARC 285 MV	■	■	Adjustable	Adjustable	■	■	90-460	10-285
	P50	ARC 400 CEL MV	■	■	Adjustable	Adjustable	■	■	200-600	20-400
	P50	ARC 500 CEL MV	■	■	Adjustable	Adjustable	■	■	200-600	20-500
	P51	ARC 200EX	■	■	■	■	■		220/230/240±15%	10-200
	P51	ARC 200LT DV	■	■	■	■	■		110/220	10-200
P Welding	P75	FORCEARC 400	■		Adjustable	Adjustable	■	■	380/400/415±15%	20-400
	P75	FORCEARC 500	■		Adjustable	Adjustable	■	■	380/400/415±15%	20-500
	P76	FORCEARC 630	■		Adjustable	Adjustable	■	■	380/400/415±15%	20-630
	P76	FORCEARC 800	■		Adjustable	Adjustable	■	■	380/400/415±15%	20-800
	P76	FORCEARC 1000	■		Adjustable	Adjustable	■	■	380/400/415±15%	20-1000
S Welding	P82	FORCEARC 120	■		■	■	■		220/230/240±15%	20-140
	P82	FORCEARC 142	■		■	■	■		220/230/240±15%	20-160
	P82	FORCEARC 161	■		■	■	■		220/230/240±15%	20-160
	P82	FORCEARC 181	■		■	■	■		220/230/240±15%	20-180
	P82	FORCEARC 201	■		■	■	■		220/230/240±15%	20-200
	P83	FORCEARC 255	■		■	■	■		220/230/240±15%	20-250
	P83	FORCEARC 300	■		■	■	■		220/230/240±15%	20-300



PLASMA WELDING GUIDE



Series	Page	Model	Grid cutting	Gouging	Pilot arc	Non Hf	HF	CNC cutting	Built-in Air compressor	Cutting amperage range	Max. cutting thickness (mm)	Input voltage (V)	
I Welding	P52	CUT45 PFC	■	■	■	■				20-45	25	90-275	
	P53	CUT60-1 CNC	■	■	■	■		■		20-60	35	220/230/240±15%	
	P54	CUT65 CNC	■	■	■	■		■		20-65	35	380/400/415±15%	
	P55	CUT105 CNC	■	■	■	■		■		20-105	55	380/400/415±15%	
	P56	CUT125 CNC	■	■	■	■		■		20-125	60	380/400/415±15%	
	P57	CUT 85 MV CNC	■	■	■	■		■		20-85	40	380/400/415±15%	
	P57	CUT105 MV CNC	■	■	■	■		■		20-105	55	380/400/415±15%	
	P58	CUT 125 MV CNC	■	■	■	■		■		20-125	60	380/400/415±15%	
	P59	CUT100HF			■		■			20-100	55	380/400/415±15%	
	P Welding	P77	FASTCUT 60			■		■			20-60	30	380/400/415±15%
		P77	FASTCUT 100 CNC			■	■		■		20-100	40	380/400/415±15%
	S Welding	P84	FASTCUT 41 HF			■		■			20-45	25	220/230/240±15%
P84		FASTCUT 45			■	■				20-40	25	220/230/240±15%	
P85		FASTCUT 45COM			■	■		■		20-45	25	220/230/240±15%	

Weld function list

OUTPUT ICONS

Constant current	Constant voltage	Constant current and Constant voltage
Alternating current	Direct current	Alternating or direct current
LCD display	Voltage Reduction Device	MCU Control System

INPUT ICONS

Single phase	Three phases	50/60 Hz input power
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WELDING PROCESS

STICK(SMAW)	SUBMERGED ARC(SAW)	Accessories
TIG(GTAW)	STUD Welder	SAFETY
MIG(GMAW)	Battery Welder	Consumables
PLASMA(PAC)	Laser Welder	Power Factor Control

FUNCTION

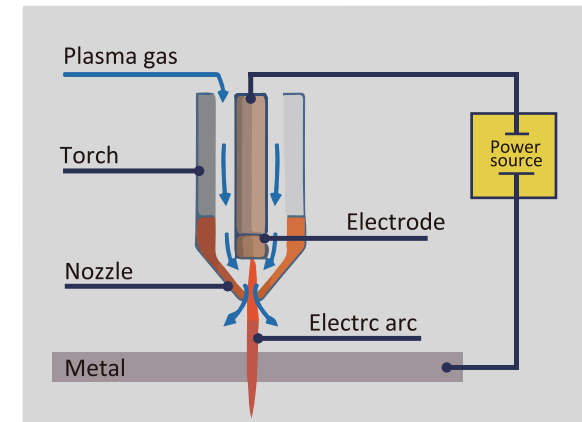
2T		4T	
Water cooling	Gas cooling	Hot Start	Arc force
Abnormal Indicator	Power Indicator	Welding Current	Air Pressure
MIG Welding Voltage	MIG Inductance	M/Min MIG Feeding Speed	
VRD Voltage Reduction Device	Spool Gun	Lift TIG	

PLASMA CUTTING PROFILE

What is Plasma

Plasma is often called “the fourth state of matter”, usually the first three state are solid, liquid and gas, just as liquid will boil, changing into a gas when energy is added, heating a gas will form a plasma—a soup of positively charged ions and negatively charged electrons.

How does plasma cutting work



Plasma cutting machines create plasma by electric arc which is passed through a gas such as nitrogen, oxygen, argon or air. The plasma can be forced through a small opening like a nozzle, which can cut through conductive metal.

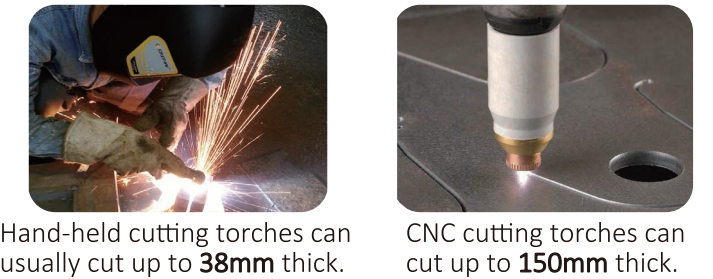
What is Plasma cutting

Plasma cutting is a melting process in which a jet of ionized gas at temperatures about 20000°C is used to melt and expel metals. Since plasma cutting machines produce a very hot and very localized “Arc” to cut with, they are extremely useful for cutting sheet metal in curved or angled shapes. Any conductive metals include steel, stainless steel, aluminum, brass, copper and alloys, etc.

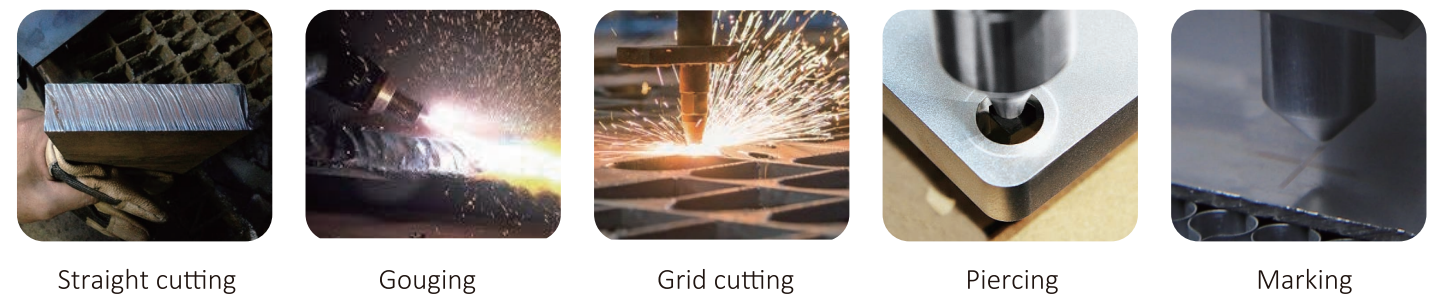
The plasma cutting includes:



Plasma cutting processes:



Cutting applications include:

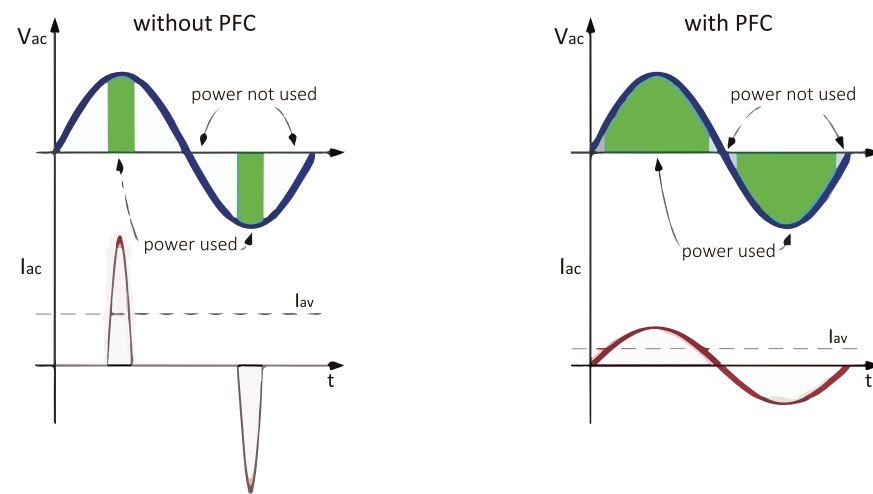


What is PFC

PFC (Power factor correction; also known as power factor controller) is a technique of increasing the power factor of power supply. It is a feature included in some electronic devices that reduces the amount of reactive power generated by a computer. Reactive power operates at right angles to true power and energizes the magnetic field. Reactive power has no real value for an electronic device, but electric companies charge for both true and reactive power resulting in unnecessary charges. PFC is a required feature for power supplies shipped to Europe.

In power factor correction, the power factor (represented as "K") is the ratio of true power (kwatts) divided by reactive power(kvar). The power factor value is between 0.0 and 1.00. If the power factor is above 0.8, the devices is using power efficiently. A standard power supply has a power factor of 0.70-0.75, and the power supply with PFC has a power factor of 0.95-0.99.

PFC is not used solely for computer power supplies. In other industries, PFC equipment is used to reduce the reactive power produced by fluorescent and high bay lighting, arc furnaces, induction welders, and equipment that uses electrical motors.



Benefits of PFC

- The technical benefits: Improved efficiency and reduction in power demand, hence a reduction in the load on the switching gear and cables, reduced costs to the consumer and support for more load.
- Commercial benefits: There are reduced system losses and less capital cost for the generating company. In addition, there are saving on electricity costs, since there are no charges for the excess reactive power. Another benefit is that the transmission and distribution equipment and systems runs cooler and last longer.
- Environmental benefits: reduce CO2 emissions.



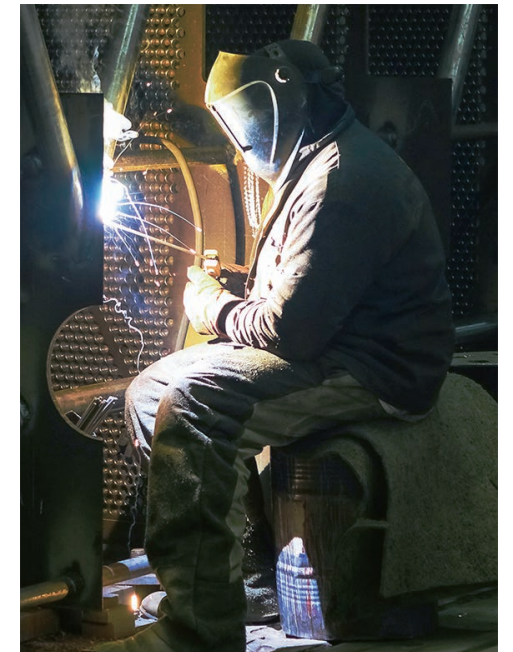
What is Cellulosic electrode

The coating of cellulosic electrodes contains a relatively high proportion of cellulose substances, intended to produce excellent penetration by providing a high hydrogen content in the arc when welding in any position.

The organic compounds in the coating decompose in the arc to form carbon monoxide, carbon dioxide and hydrogen, which increase the arc tension, so the welding arc becomes stronger and harder. Compared with other types of electrodes, with the same current values, a 70% deeper penetration can be obtained with cellulose electrode.

This type of electrode is generally produced with thin or medium coating thickness. When the coating is thin, a light amount of slag is formed on the welding bead and the spatter loss is high. On the other hand, the gap filling and vertical down welding capability as well as penetration of the weld obtained by this electrode is good.

Since this electrode can be used in every position, specific in vertical down, it has a wide range of applications in the ship building industry and in the welding of pipelines with a wall thickness of less than 12.5mm, the cellulose that burns during welding forms a very good protection gaseous atmosphere.



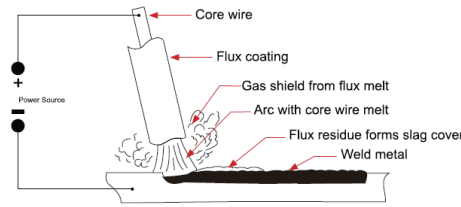
Features of Cellulosic electrode

- Deep penetrating welding in every position
- Vertical down welding capability
- Weld metal with good mechanical properties
- A less amount of welding pool is developed



What is MMA welding

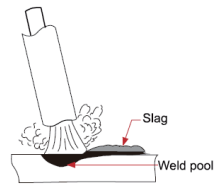
One of the most common types of arc welding is manual metal arc welding (MMA) or stick welding. An electric current is used to strike an arc between the base material and a consumable electrode rod or “stick”. The electrode rod is made of a material that is compatible with the base material being welded and is covered with a flux that gives off gaseous vapours that serve as a shielding gas and providing a layer of slag, both of which protect the weld area from atmospheric contamination. The electrode core itself acts as filler material the residue from the flux that forms slag covering over the weld metal must be chipped away after welding.



The Metal Wire Core works as conductor of the current that maintains the arc. The core wire melts and is deposited into the welding pool.

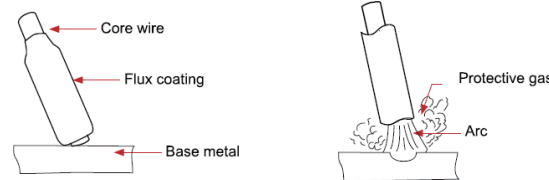
The covering on a shielded metal arc welding electrode is called Flux. The flux on the electrode performs many different functions. These include:

- producing a protective gas around the weld area
- providing fluxing elements and deoxidizer
- creating a protective slag coating over the weld as it cools
- establishing arc characteristics
- adding alloying elements



- The arc is initiated by momentarily touching the electrode to the base metal.
- The heat of the arc melts the surface of the base metal to form a molten pool at the end of the electrode.
- The melted electrode metal is transferred across the arc into the molten pool and becomes the deposited weld metal.
- The deposit is covered and protected by a slag which comes from the electrode coating.
- The arc and the immediate area are enveloped by an atmosphere of protective gas.

Manual metal arc (stick) electrodes have a solid metal wire core and a flux coating. These electrodes are identified by the wire diameter and by a series of letters and numbers. The letters and numbers identify the metal alloy and the intended use of the electrode.



Covered electrodes serve many purposes in addition to filler metal to the molten pool. These additional functions are provided mainly by the covering on the electrode.

MMA Welding Fundamentals

Electrode Selection

As a general rule, the selection of an electrode is straight forward, in that it is only a matter of selecting an electrode of similar composition to the parent metal. However, for some metals there is a choice of several electrodes, each of which has particular properties to suit specific classes of work. It is recommended to contact your welding supplier for the correct selection of electrode.

Electrode Size

The size of the electrode generally depends on the thickness of the section being welded, and the thicker the section the larger the electrode required. The table gives the maximum size of electrodes that may be used for various thicknesses of section based on using a general purpose type 6013 electrode.

Average Thickness of Material	Maximum Recommended Electrode Diameter
1.0-2.0 mm	2.5 mm
2.0-5.0 mm	3.2 mm
5.0-8.0 mm	4.0 mm
>8.0 mm	5.0 mm



Arc Length

To strike the arc, the electrode should be gently scraped on the work until the arc is established. There is a simple rule for the proper arc length; it should be the shortest arc that gives a good surface to the weld. An arc too long reduces penetration, produces spatter and gives a rough surface finish to the weld. An excessively short arc will cause sticking of the electrode and result in poor quality welds. General rule of thumb for down hand welding is to have an arc length no greater than the diameter of the core wire.

Electrode Angle

The angle that the electrode makes with the work is important to ensure a smooth, even transfer of metal. When welding in down hand, fillet, horizontal or overhead the angle of the electrode is generally between 5 and 15 degrees towards the direction of travel. When vertical up, welding the angle of the electrode should be between 80 and 90 degrees to the work piece.

Travel Speed

The electrode should be moved along in the direction of the joint being welded at a speed that will give the size of run required. At the same time, the electrode is fed downwards to keep the correct arc length at all times. Excessive travel speeds lead to poor fusion, lack of penetration etc., while too slow a rate of travel will frequently lead to arc instability, slag inclusions and poor mechanical properties.

Welding Current (Amperage)

Correct current selection for a particular job is an important factor in arc welding. With the current set too low, difficulty is experienced in striking and maintaining a stable arc.

Electrode Size Ø mm	Current Range (Amps)
2.5 mm	60-95
3.2 mm	100-130
4.0 mm	130-165
5.0 mm	165-260

The electrode tends to stick to the work, penetration is poor and beads with a distinct rounded profile will be deposited. Too high current is accompanied by overheating of the electrode resulting undercut and burning through of the base metal and producing excessive spatter. Normal current for a particular job may be considered as the maximum, which can be used without burning through the work, over-heating the electrode or producing a rough spattered surface. The table shows current ranges generally recommended for a general-purpose type 6013 electrode.

Material and Joint Preparation

The material to be welded should be clean and free of any moisture, paint, oil, grease, mill scale, rust or any other material that will hinder the arc and contaminate the weld material. Joint preparation will depend on the method used include sawing, punching, shearing, machining, flame cutting and others. In all cases, edges should be clean and free of any contaminants. The type of joint will be determined by the chosen application.



What is the Lift TIG start

Lift TIG start looks similar to Scratch TIG start, but not same in their working. As in scratch TIG start, lift TIG start also uses a tungsten to make contact with the base metal. But the difference is that the tungsten is brought down very quickly and lightly, and then quickly lifted to “draw” up the arc.

Different welding purpose between Lift TIG start and High frequency TIG start

HF is mainly found on professional or dedicated TIG welding machine, such as AC/DC TIG welding machine or DC TIG welding machine, but if working condition is near to electronic, computers or in hospital, that equipment can be interfered by High frequency. In this case, we have to use Lift TIG start.

Lift TIG Start Welding Fundamentals

Striking the arc for TIG Operation: when tungsten electrode touches the workpiece, the short-circuit current is only 28A. After generating arc, current can rise to the setting welding current. If the tungsten electrode touches the workpiece when welding, the current will drop to 5A within 2s, which can reduce tungsten waste, prolong the using life of the tungsten electrode, and prevent tungsten clipping.

Shielding Gas Selection

Alloy	Shielding Gas
Carbon Steel	Welding Argon
Stainless Steel	Welding Argon
Nickel Alloy	Welding Argon
Copper	Welding Argon
Titanium	Welding Argon

TIG Welding Parameters for Steel

Base Metal Thickness	DC Current		Electrode Diameter	Filler Rod Diameter	Argon Gas Flow Rate
	Mild Steel	Stainless Steel			
1.0mm	40-50	25-35	1.0mm	1.6mm	5LPM
1.6mm	70-90	50-70	1.6mm	1.6mm	7LPM
3.2mm	90-115	90-110	1.6mm	2.4mm	7LPM

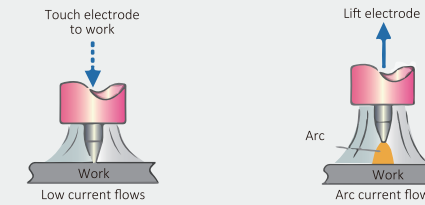
Tungsten Electrode Current Ranges

Electrode Diameter	DC Current
1.0mm	25 - 85
1.6mm	50 - 160

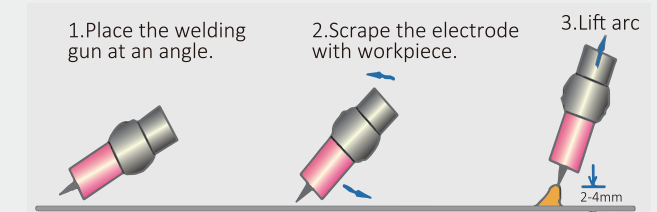
Tungsten Electrode Types

Electrode Type (Ground Finish)	Welding Application	Features	Color Code
Thoriated 2%	DC welding of mild steel, stainless steel and copper.	Excellent arc starting, long life, high current carrying capacity.	Red
Ceriated 2%	AC & DC welding of mild steel, stainless steel, copper aluminum magnesium and their alloys.	Longer life, more stable arc, easier starting, wider current range, narrower more concentrated arc.	Grey

Difference between Lift TIG start and High Frequency Start

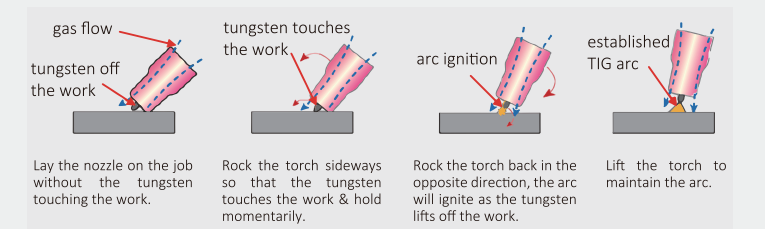


Scratch TIG is a very basic process, the TIG tungsten electrode is scratched on the work piece to initiate arc, and it must be lifted off quickly and try to prevent it sticking, but not lifted too far to avoid extinguishing the arc.



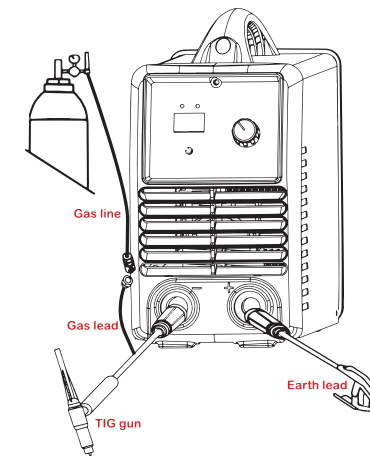
Lift TIG is touched on the work piece and lifted off. The start current is very low and therefore the tungsten barely sticks to the work piece, so the point of tungsten is not damaged. The tungsten is easily lifted off the work piece.

Lift TIG is a facility which allows for starting the arc without high frequency. This is particularly useful in areas where HF could interfere with computer and telecommunications equipment.



Installation & Operation for TIG Welding

Set up installation for TIG Welding



- (1) Switch the ON/OFF Switch to OFF;
- (2) Connect the earth lead to “+”, tighten clockwise;
- (3) Connect the TIG torch cable to “-”, tighten clockwise;
- (4) Using a secured Argon cylinder, slowly crack open then close the cylinder valve while standing off to the side of the valve. This will remove any debris that may be around the valve & regulator seat area;
- (5) Install the regulator and tighten with a wrench;
- (6) Connect the gas hose to the outlet of the Argon regulator, and tighten with a wrench;
- (7) Be sure the gas valve on the torch is closed, and slowly open the Argon Cylinder Valve to the fully open position;
- (8) Connect the ground clamp to your work piece;
- (9) Plug the power cable into the appropriate outlet.

NOTE

- When TIG operation, the shielded gas is inputted to welding gun directly.
- Secure the gas cylinder in an upright position by chaining them to a stationary support to prevent falling or tipping.

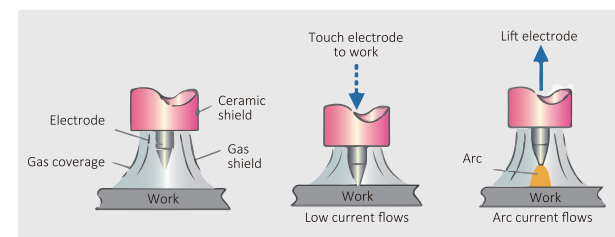
What is TIG welding

TIG welding is Tungsten Inert Gas (TIG) welding, it is also known as Gas Tungsten Arc Welding (GTAW). It is an arc welding process that produce the weld with a non-consumable tungsten electrode. In the TIG welding process that arc is formed between a pointed tungsten electrode and the work piece in an inert atmosphere of argon or helium. The small intense arc provided by the pointed electrode is ideal for high quality and precision welding.

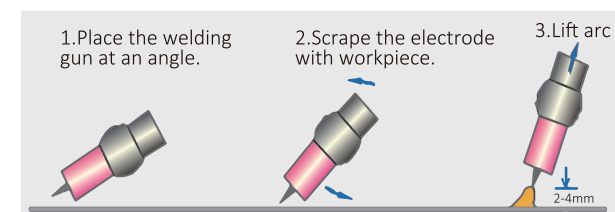
Pulse TIG welding

Pulse or non-pulse current can be selected. The method using a pulse current is called Pulse Tig welding. In Pulse TIG welding, the welding current is changed alternately at a constant frequency between a pulse current and a base current. The work piece melts while the pulse current, and cools while the base current. Pulse TIG welding can be used to help move the welding pool, and it is useful for welding out of position or with materials which have higher viscosity welding pool. Higher pulse duty setting will give greater heat input, lower pulse duty will have opposite effect.

Scratch TIG, Lift TIG and HF TIG ignition



Scratch TIG is a very basic process, the TIG tungsten electrode is scratched on the work piece to initiate arc, and it must be lifted off quickly and try to prevent it sticking, but not lifted too far to avoid extinguishing the arc.



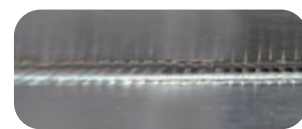
AC & DC TIG welding

AC welding used an alternation current between the positive and negative polarities, maintaining the heat without overheating the base material. Commonly used materials are aluminum and magnesium.

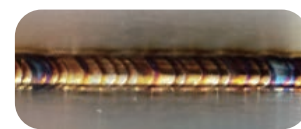
DC power electrode negative used the negative polarity on the torch to pinpoint the energy flow to the material, much like a hose spraying water on a targeted area. This makes it more appealing to all metals, excluding aluminum and magnesium.

Cold & Hot TIG welding

There are two types of TIG welding that use a filler wire: cold wire welding and hot wire welding. Cold wire welding uses a normal filler wire. Hot wire welding heats up the wire beforehand by passing a current through it.

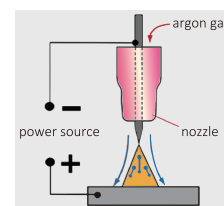


Cold TIG Welding



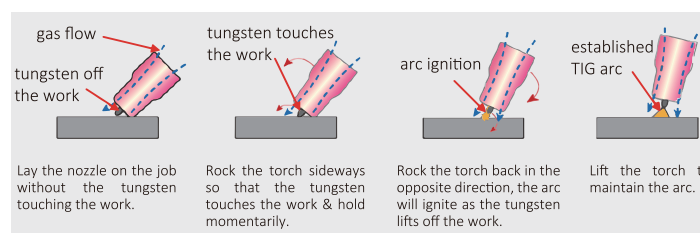
Hot TIG Welding

HF TIG allows the operator to position the tungsten electrode near the work piece, and simply press the torch trigger to start the arc.



Lift TIG is touched on the work piece and lifted off. The start current is very low and therefore the tungsten barely sticks to the work piece, so the point of tungsten is not damaged. The tungsten is easily lifted off the work piece.

Lift TIG is a facility which allows for starting the arc without high frequency. This is particularly useful in areas where HF could interfere with computer and telecommunications equipment.



Pre-gas

On a variable timer, allows for purging the torch and weld start area prior to establishing arc. This ensures the weld starts in an inert atmosphere.

Post-gas

On a variable timer, ensures gas coverage to protect the completed weld area from atmospheric contamination.

Remote control

It normally achieved with a foot control, gives variable control of the welding current (and therefore arc). The foot control can also be used as the trigger switch.



AC frequency adjustment

This function is only be available on AC TIG welding mode. Increasing AC frequency will focus the shape of ARC, if the ARC can be controlled better, then it will increase penetration and give less heat during the same welding setting. Slower frequency will bring a wider and softer ARC shape. The AC frequency adjustment can be from 50Hz to 250Hz.

Up-slope

It allows you to commence welding with a gradual(timed) increase in the welding current up to the selected main current level.

2T

The trigger is pressed to ignite arc, when trigger is released, the welding stop.

Down-slope

It is gradual(timed) reduction in the welding current down to final, normally pre-set, level, thus elimination crate cracks or high temperature gas holes on completion of the weld.

4T

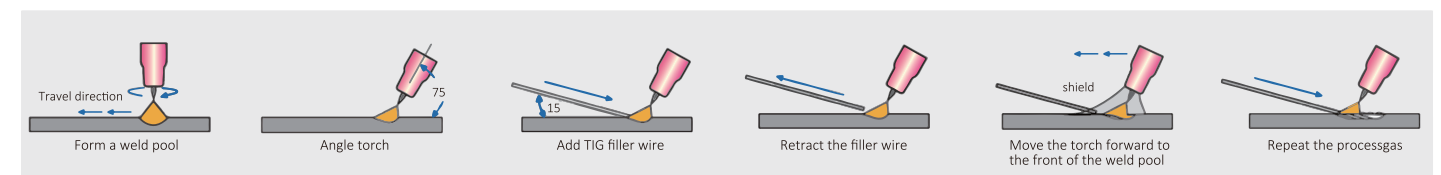
It saves keeping the trigger pressed during the welding cycle, especially useful during long time welding. An initial press and release of the trigger starts the weld and a subsequent press and release stops the weld.

AC balance

It only presents on AC/DC TIG welders, it gives the ability to offset the AC, in order to control weld penetration, width and cleanliness.

Non-consumable Tungsten Electrode

Tungsten is used in this process since this rate, metallic element intrinsically has a high melting temperature when compared to other metals. Tungsten offers excellent electrical conductivity without being consumed. Though, erosion can still occur on the tip during the shielded metal arc welding procedure.



Tungsten electrodes can also be alloyed to improve their properties depending on the weld type. There are some common examples as below:



- **Pure tungsten electrode (green)**

They offer good arc stability when using AC current. Used for light metals since they keep a clean, balled end. These are also the cheapest and applied for general purpose work.

- **Ceriated electrodes (2% cerium grey)**

Non-radioactive electrode alloyed with cerium oxide. These electrodes have great arc starting but less current capacity than lanthanum electrodes.

- **Zirconiated electrodes (0.7-0.9% zirconium white, 0.15-0.5% zirconium brown)**

Tungsten with zirconium oxide has a high resistance to contamination and longer electrode life. Produces an extremely stable arc, it handles higher current with less spitting, better arc starts and arc stability. Thus it is used when the highest quality is needed.

- **Thoriated electrodes (1% thorium yellow, 2% red, 3% purple)**

Common in the welding scene as they were the first to beat pure tungsten electrodes in DC welding arc performance. They have a high current carrying capacity and they maintain the shape of the tip longer. Thorium emits alpha radiation, which can harm the respiratory. A dust extraction system is required for collecting the dust during tip grinding.

- **Lanthanum electrodes (1% lanthanum black, 1.5% gold, 2% blue)**

Non-radioactive electrode alloyed with lanthanum oxide. Characterised by excellent arc stability properties with low erosion rate. A bit less efficient than thoriated electrodes.

- **Tungsten Electrodes diameter vs welding current**

Tungsten diameter (mm)	DC current(A)	AC current(A)	AC current(A)
	Torch negative 2% Thoriated	Unbalanced wave 0.8% Zirconiated	Balance wave 0.8% Zirconiated
1.0	15-80	15-80	20-60
1.6	70-150	70-150	60-120
2.4	150-250	140-235	100-180
3.2	250-400	225-325	160-250
4.0	400-500	300-400	200-320

Shield gas

Inert shield gas is fed to the TIG torch to keep the weld pool free from contamination while the current is supplied to the welding arc. The shield gas flow is essential in protection the weld puddle from oxidation and impurities from the atmosphere while the metals are melted and fused along with filler rod.

- Argon is the most common shield gas
- Argon +2 to 5% H₂
- Helium and helium/argon mixtures.

Advantages of TIG welding

- Suitable for wide varying metal thicknesses. It is even suitable for very thin materials that are difficult or impossible to join with other welding techniques.
- Ideal for cosmetic welds on sculptures.
- Possible in any position: vertical, horizontal, overhead.
- It is easy to see workpiece during TIG welding because of minimal smoke and colorless shielding gas.
- Very clean, with less spatter, smoke, sparks or fumes than other welding processes.
- Extremely ductile, stronger and more corrosion resistant than other welding processes.

Welding torch

A welding torch is a mechanical tool specialized in melting and fusing metals. It has several types depending on its purposes:

Air-cooled TIG torches only have one gas input and are more prone to overheating, unlike water-cooled TIG torches, the primary use of these torches is for thin work piece or minor projects.



Water-cooled TIG torches have a gas input while having an input and output for water lines. It is usually for larger projects that need rapid cooling, water cooler system has to be installed.



What is MIG welding

Metal inert gas welding (MIG welding) is one of several welding techniques that use electricity to melt and join pieces of metal.

MIG welding is a sub-type of gas metal arc welding (GMAW) including followings,

- Gas metal arc welding
- Spray arc welding
- Flux-cored arc welding
- Short-circuit welding

2-Roll and 4-Roll wire feed assembly:



2-Roll Wire Feed



4-Roll Wire Feed

A 4-Roll system has two bottom rollers and two top rollers which gives a more stable wire feeding and is better at feeding softer alloy wires than a 2-Roll system. Some MIG welders also have geared 4-Roll systems which help to regulate wire feeding speed with great accuracy resulting in exceptionally smooth welds.

Spool gun

A spool gun is specialized piece of welding equipment. It is a self-contained gun that is used feed aluminum wire from spools that mounted on the gun. It is recommended for softer wires and smaller diameters. It is very convenient and cost-effective for people who frequently switch between aluminum and steel welding.

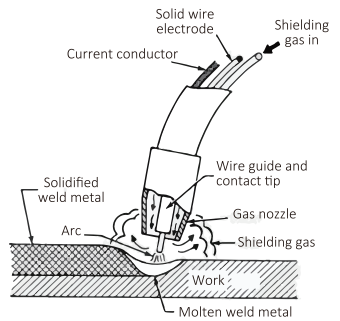


Burn back control

This setting is used to adjust how long a wire is electrically energized after the wire has stopped being fed. If this control is not set properly, it can cause the wire to stick to the work piece.

How MIG welding works

When we use a MIG welding machine, spool-fed electrode wire is fed through a tensioning mechanism and into a co-axial supply line. This leads to a hand-held MIG welding torch. At the same time, a shield gas such as argon, carbon dioxide or mixture is fed along the same supply line to the torch. The gas protects the welding pool from atmospheric gases that would otherwise weaken the weld.



When the heat is removed, the weld pool cools, solidifies and form a new piece of fused metal-the weld is made.

Spot welding

This allows to set an amount of time machine will weld when trigger is pressed. When you press the trigger a spot weld is carried out and then machine stops, release and press trigger again to produce another spot weld.



Arc force

Low setting means less penetration and low splatter, used for the thinner materials, such as car body repair. High setting means penetration and more splatter, used for thicker materials.

Soft start

When the trigger is pressed the wire comes out from torch slowly, usually slower than set wire feeding speed. When wire touches the work piece and arc is started, machine senses this and increases the wire feeding speed up to setting of speed. This can stop torch jerk when starting a weld and also produces a better start to the weld.

Synergic control

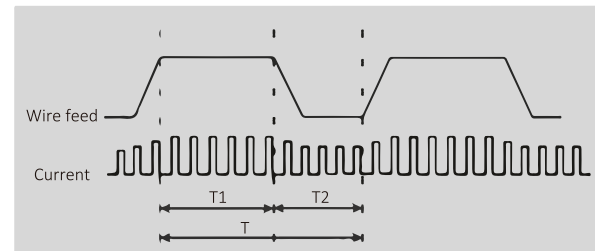
It makes the setting of MIG mode easier, we just set the welding current similar as MMA or TIG welding, and machine will calculate the optimal voltage and wire feeding speed according material type, wire type and size, thickness and shield gas automatically.

Advantages of MIG welding

- Welding speed is fast.
- MIG welding is suitable for joining many different metals and metal thickness.
- All-position welding includes horizontal, vertical and flat welding with confidence.
- High-deposition MIG welding enables long weld passes, faster welding and increased productivity.
- A good weld bead.
- A minimum of weld splatter.
- Continuously wire feeding allows we may use all electrode during MIG welding in order to avoid waste of electrode.
- MIG welding is easy to learn, and it allows automation welding.

What is Pulse MIG welding

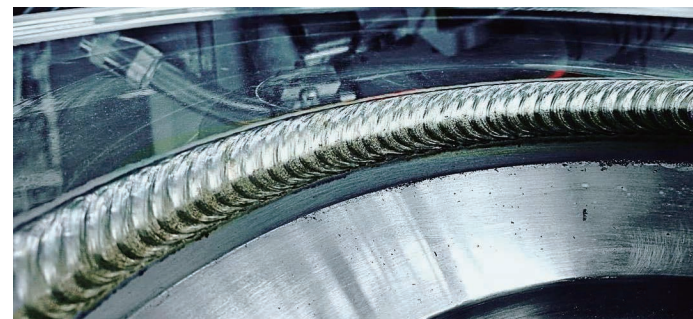
Puled MIG welding is where a constantly changing low and high current is produced at a given frequency by the welding machine. This pulsing high low effect means there is less heat in the welding seam during the thinner materials welding. It is special useful for aluminum welding.



How to set up Aluminum welding

Aluminum welding is contrastingly different from steel welding. The first and foremost consideration of aluminum welding is bringing about changed in the machine to make it suitable for handing softer aluminum.

What is Aluminum welding by inverter pulsed MIG machine



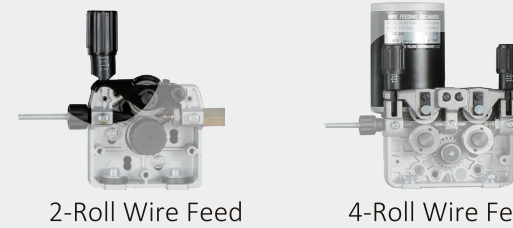
Aluminum welding is not as simple and straight forward as steel welding. Aluminum is much softer than steel, which makes feeding it through a liner extremely difficult. The equipment that is used for aluminum welding should be specifically adapted to handle this soft metal. The machine settings that are used for working with normal steel also need to be adjusted to suit aluminum. Moreover, aluminum wire is so soft that it can easily break or get damaged during feeding.

Liner

Steel liner is used for steel welding, it is not suitable for aluminum welding because steel liner will scratch and scrape shavings off the soft aluminum. So, Nylon or Teflon liner is necessary for aluminum welding, these materials reduce friction significantly and prevent aluminum wire from getting scratched or shaved off.



Brake tension



The brake tension should be set loosely compared to the setting of steel welding, less tension is helpful on aluminum wire feeding.

Push pull torch

This is a MIG torch used for aluminum welding. The torch head has a pair of rollers driven by a motor which pulls the wire as well as the MIG welder roller system pushing the wire. This ensures correct wire feed of the softer alloy wire and prevents snags and wire feed problems. Generally used for production alloy MIG welding.



Wire guides

Same as liner, Nylon or Teflon wire guides are recommended during the aluminum welding.

Contact tips

The expansion of aluminum upon heating is much more than steel, so a nozzle with a larger hole in the contact tip is necessary for aluminum welding.



Drive rolls

There are three grooves drive rolls, the first one is V-shaped groove that is common for steel welding, the second one is knurl-shaped groove that is common for flux-cord wire welding, the third one is U-shaped groove that is special for aluminum welding. Because the U-shaped grooves do not have any sharp edges, the tension on the drive rolls is less because the aluminum is too soft to withstand too much tension during feeding.



Right shield Gas

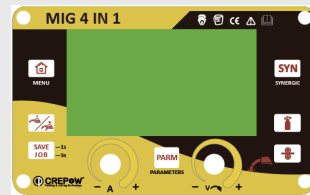
100% argon is suitable for aluminum welding.

Advantages of Pulsed MIG welding

- Spatter free
- High deposition rate
- Good and clean welding surface
- Strong fusion
- Brilliant for aluminum and braze welding

MIG 4 IN 1

- Global input voltage from Single phase 90Volts to 275Volts
- Power Factor Correction 0.99
- MCU control system
- LCD display is optional, language changing is available on LCD version
- Multi functions include MIG/MAG Synergic, MIG/MAG manual, Gas/Gasless, HF DC TIG, HF AC TIG, Pulsed TIG and Stick
- Job function can save 10 different welding settings
- Foot control for TIG function is available
- Finger control for TIG function is available
- D100/1kg and D200/5kg wire spool size
- Synergic control
- Spool gun ready
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Decoration / Light Industrial / Semi-Industrial



Processes

- MIG (GMAW)
- FLUX CORED (FCAW)
- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



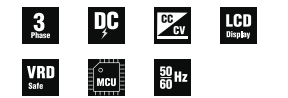
Model	MIG 4 IN 1									
Power supply voltage (V)	90-275									
Power frequency (Hz)	50/60									
Input voltage (V)	1~110					1~230				
	MIG DC	TIG AC	TIG DC	MMA AC	MMA DC	MIG DC	TIG AC	TIG DC	MMA AC	MMA DC
Effective current (A)	19.6	19.3	18.9	18.8	19.7	14.7	12.2	11.8	15.7	16.8
Rated input current (A)	35.7	35.3	34.5	37.6	39.4	26.8	22.2	21.5	28.6	30.7
Rated input power (KW)	3.9	3.9	3.9	4.1	4.3	6.2	5.1	4.9	6.6	7
Duty cycle 40°C 10min	30% 140A	30% 160A	25% 130A		30% 200A	30% 200A	30% 200A	30% 200A		
	60% 100A	60% 115A	60% 85A		60% 145A	60% 145A	60% 145A	60% 145A		
	100% 80A	100% 90A	100% 65A		100% 110A	100% 110A	100% 110A	100% 200A		
Welding current range (A)	30-140	10-160	10-130		30-200	10-200	10-200	10-200		
Welding voltage range (V)	15.5-21	10.4-18	20.4-25.2		15.5-24	10.4-18	10.4-18	20.4-28		
Wire feeding speed (m/min)	1.5-12.0	-	-		1.5-16.5	-	-	-		
No load voltage(V)	72	67	72		72	67	67	72		
Efficiency (%)	80.5					84.5				
Power factor	0.99									
Insulation class	F									
Protection class	IP21S									
Cooling	AF									
Net weight (kg)	20									
Dimensions (mm)	630x240x420									

TROLLYMIG 315

- Inverter IGBT technology
- MCU control system
- LCD display is optional, language changing is available on LCD version
- Multi functions include MIG/MAG Synergic, MIG/MAG manual, Gas/Gasless, TIG and Stick
- Synergic control
- Spool gun ready
- Foot control for TIG function is available
- Finger control for TIG function is available
- D200/5kg and D300/15kg wire spool size
- Generator Friendly
- 550Volts tested in production
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Light Industrial / Semi-Industrial



Processes

- MIG (GMAW)
- FLUX CORED (FCAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	TROLLY MIG 315		
Power supply voltage (V)	3~400		
Power frequency (Hz)	50/60		
	MIG	TIG	MMA
	14.2	10.8	11.4
Effective current (A)	14.2	10.8	11.4
Rated input current (A)	22.5	17	18
Rated input power (KW)	15.5	11.7	12.6
Duty cycle 40°C 10min	40% 315A	40% 300A	40% 250A
	60% 245A	60% 235A	60% 195A
	100% 200A	100% 190A	100% 160A
Welding current range (A)	30-315	10-300	10-250
Welding voltage range (V)	15.5-29.8	10.4-22	20.4-30
Wire feeding speed (m/min)	1.5-18	-	-
No load voltage(V)	75	71	75
Efficiency (%)	89.4		
Power factor	0.68		
Insulation class	F		
Protection class	IP21S		
Cooling	AF		
Net weight (kg)	59		
Dimensions (mm)	930*490*930		

MULTIMIG 350/500

- Inverter IGBT technology
- IGBT module technology
- MCU control system and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- Multi functions include MIG/MAG Synergic, MIG/MAG manual, Gas/Gasless, TIG and Stick
- Four rollers Air cooling and Water cooling separate wire feeder are optional
- Foot control for TIG function is available
- Finger control for TIG function is available
- Digital display on MIG torch is available
- D200/5kg and D300/20kg wire spool size
- Synergic control
- Spool gun ready
- Push/Pull gun ready
- Generator Friendly
- 550Volts tested in production
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- MIG (GMAW)
- FLUX CORED (FCAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



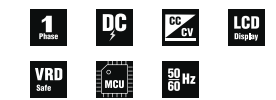
Model	MULTIMIG 350			MULTIMIG 500		
Power supply voltage (V)	3~400			3~400		
Power frequency (Hz)	50/60			50/60		
	MIG	TIG	MMA	MIG	TIG	MMA
Effective current (A)	17.6	14.7	18.6	28.4	23.7	30.1
Rated input current (A)	22.7	19	24	36.7	30.6	38.8
Rated input power (KW)	15.7	13.2	16.6	25.4	21.2	26.9
Duty cycle 40°C 10min	60% 350A 100% 275A			60% 500A 100% 390A		
Welding current range (A)	30-350	10-350	10-350	40-500	10-500	10-500
Welding voltage range (V)	15.5-31.5	10.4-24	20.4-34	16-39	10.4-30	20.4-40
Wire feeding speed (m/min)	1.5-24	-	-	1.5-24	-	-
No load voltage(V)	77	73	77	94	93	94
Efficiency (%)	90.7			89.7		
Power factor	0.8			0.86		
Insulation class	F			F		
Protection class	IP21S			IP21S		
Cooling	AF			AF		
Net weight (kg)	30			34.5		
Dimensions (mm)	700*270*490			700*270*490		

MULTIMIG 250DP

- Global input voltage from Single phase 90Volts to 275Volts
- Power Factor Correction 0.99
- DSP control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- Compact Four rollers wire feeder with D200/5kg and D300/20kg wire spool size
- Other multi functions include MIG/MAG Synergic, MIG/MAG manual, Gas/Gasless, TIG and Stick
- Trolley on wheels with water cooler or toolbox are optional
- Foot control for TIG function is available
- Finger control for TIG function is available
- Double Pulsed and Single Pulsed MIG
- Spool gun ready
- Push/pull gun ready
- Synergic control
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial



Processes

- MIG (GMAW)
- MIG-P (GMAW-P)
- FLUX CORED (FCAW)
- MMA (SMAW)
- LIFT TIG

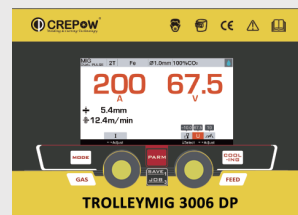
Optional Accessories



Model	MULTIMIG 250DP					
Power supply voltage (V)	90-275V					
Power frequency (Hz)	50/60					
Input voltage (V)	1~110			1~230		
	MIG	TIG	MMA	MIG	TIG	MMA
Effective current (A)	31.7	22.4	28.6	26.3	20.5	29.8
Rated input current (A)	41	29	37	34	26.5	38.5
Rated input power (KW)	4.5	3.2	4.1	7.8	6.1	8.8
Duty cycle 40°C 10min	60% 160A 100% 125A			60% 250A 100% 195A		
Welding current range (A)	20-160	10-250	10-250	20-250	10-250	10-250
Welding voltage range (V)	15-22	10.4-16	20.4-25.2	15-26.5	10.4-20	20.4-30
Wire feeding speed (m/min)	1.5-24	-	-	1.5-24	-	-
No load voltage(V)	61	14.5	14.5	61	14.5	14.5
Efficiency (%)	81.9			85.8		
Power factor	0.99					
Insulation class	F					
Protection class	IP21S					
Cooling	AF					
Net weight (kg)	28.5					
Dimensions (mm)	720*260*490					

TROLLYMIG 3006 DP

- Inverter IGBT technology
- IGBT module
- DSP control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- Other multi functions include MIG/MAG Synergic, MIG/MAG manual, Gas/Gasless, TIG and Stick
- Spool gun ready
- Push/pull gun ready
- Foot control for TIG function is available
- Finger control for TIG function is available
- Compact Four rollers wire feeder with D200/5kg and D300/20kg wire spool size
- Water cooler or toolbox are optional
- 550Volts tested in production
- Double Pulsed and Single Pulsed MIG
- Generator Friendly
- Synergic control
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial



Processes

- MIG (GMAW)
- MIG-P (GMAW-P)
- FLUX CORED (FCAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	TROLLYMIG 3006DP		
Power supply voltage (V)	3~400		
Power frequency (Hz)	50/60		
	MIG	TIG	MMA
Effective current (A)	15.9	12.6	17.1
Rated input current (A)	20.6	16.3	22.1
Rated input power (KW)	14.3	11.3	15.4
Duty cycle 40°C 10min	60% 300A 100% 235A		
Welding current range (A)	20-300	10-300	10-300
Welding voltage range (V)	15-29	10.4-22	20.4-32
Wire feeding speed (m/min)	1.5-24	1.5-24	1.5-24
No load voltage(V)	68	73	73
Efficiency (%)	89.8		
Power factor	0.7		
Insulation class	F		
Protection class	IP21S		
Cooling	AF		
Net weight (kg)	61		
Dimensions (mm)	930*490*930		

MULTIMIG 350DP/500DP

- Inverter IGBT technology
- IGBT module technology and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- Four rollers Air cooling and Water cooling wire feeder are optional
- Input Voltage can be 3ph 230Volts or 400Volts or 600Volts
- Double Pulsed and Single Pulsed MIG function
- Other multi functions include MIG/MAG Synergic, MIG/MAG manual, Gas/Gasless, TIG and Stick
- DSP control system
- 275Volts/550Volts/800Volts tested in production
- Foot control for TIG function is available
- Finger control for TIG function is available
- Digital display on MIG torch is available
- D200/5kg and D300/20kg wire spool size
- Synergic control
- Generator Friendly
- Spool gun ready
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- MIG (GMAW)
- MIG-P (GMAW-P)
- FLUX CORED (FCAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	MULTIMIG 350DP						MULTIMIG 500DP					
Power supply voltage (V)	3~230			3~400			3~400			3~600		
Power frequency (Hz)	50/60			50/60			50/60			50/60		
	MIG	TIG	MMA	MIG	TIG	MMA	MIG	TIG	MMA	MIG	TIG	MMA
Effective current (A)	28.5	23.4	30.6	19.3	14.7	21	31.6	26.6	32.8	19.2	15.8	20.4
Rated input current (A)	36.8	30.2	39.5	25	19	27.2	40.8	34.3	42.4	24.8	20.4	26.3
Rated input power (KW)	14.6	12	15.7	17.3	13.1	18.9	28.2	23.8	29.4	25.8	21.3	27.4
Duty cycle 40°C 10min	60% 350A 100% 270A			60% 350A 100% 270A			60% 500A 100% 390A			60% 500A 100% 390A		
Welding current range (A)	20-350	10-350	10-350	20-350	10-350	10-350	15-500	10-500	10-500	15-500	10-500	10-500
Welding voltage range (V)	15-31.5	10.4-24	20.4-34	15-31.5	10.4-24	20.4-34	14.8-39	10.4-30	20.4-40	14.8-39	10.4-30	20.4-40
Wire feeding speed (m/min)	1.5-24	-	-	1.5-24	-	-	1.5-24	-	-	1.5-24	-	-
No load voltage(V)	72.5	71	72.5	99			90	92	94	97	97	93
Efficiency (%)	89.6			87			90			91.8		
Power factor	0.8			0.74			0.77			0.83		
Insulation class	F			F			F			F		
Protection class	IP21S			IP21S			IP21S			IP21S		
Cooling	AF			AF			AF			AF		
Net weight (kg)	25.5			26			30.5			30.5		
Dimensions (mm)	700*270*490			700*270*490			700*270*490			700*270*490		

MULTIMIG 400 MV

- Inverter IGBT technology
- IGBT module technology and ideal for heavy duty use
- MCU control system
- Global Input Voltage is from 1ph 200Volts to 3phs 600Volts
- Power Factor Correction is 0.99
- Four rollers Air cooling and Water cooling wire feeder are optional
- LCD display is optional, language changing is available on LCD version
- Multi functions include MIG/MAG Synergic, MIG/MAG manual, Gas/Gasless, TIG and Stick
- Spool gun ready
- Foot control for TIG function is available
- Finger control for TIG function is available
- Digital display on MIG torch is available
- D200/5kg and D300/20kg wire spool size
- Synergic control
- Generator Friendly
- 800Volts tested in production
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



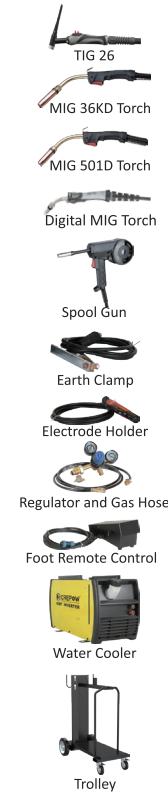
Industrial / Heavy Industrial



Processes

- MIG (GMAW)
- FLUX CORED (FCAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	MULTIMIG 400 MV											
Power supply voltage (V)	200-660											
Power frequency (Hz)	50/60											
Input voltage (V)	1~230			3~230			3~400			3~600		
	MIG	TIG	MMA	MIG	TIG	MMA	MIG	TIG	MMA	MIG	TIG	MMA
Effective current (A)	26.5	20.1	29.7	25.6	20.1	28	17.8	13.9	18.7	19	15.5	19.2
Rated input current (A)	34.2	25.9	38.3	33	26	36.2	23	18	24.2	24.5	20	24.8
Rated input power (KW)	7.8	5.9	8.7	12.6	9.9	13.8	15.9	12.5	16.8	21.7	17.3	22.3
Duty cycle 40°C 10min	60% 250A			60% 350A			60% 400A			60% 400A		
	100% 195A			100% 270A			100% 310A			100% 310A		
Welding current range (A)	30-250	10-250	10-250	30-350	10-350	10-350	30-400	10-400	10-400	30-400	10-400	10-400
Welding voltage range (V)	15.-5-26.5	10.3-20	20.3-30.1	15.5-31.5	10.3-24	20.3-34.2	15.5-34.1	10.3-26.1	20.3-36.1	15.5-34.0	10.3-26.2	20.3-36.1
Wire feeding speed (m/min)	1.5-24	-	-	1.5-24	-	-	1.5-24	-	-	1.5-24	-	-
No load voltage(V)	84			84			84			122		
Efficiency (%)	86.3			87.3			89.8			89.7		
Power factor	0.99			0.96			0.96			0.82		
Insulation class	F											
Protection class	IP21S											
Cooling	AF											
Net weight (kg)	34.5											
Dimensions (mm)	710*270*490											

MULTIMIG 500 MV

- Inverter IGBT technology
- IGBT module technology and ideal for heavy duty use
- MCU control system
- Global Input Voltage is from 1ph 200Volts to 3phs 600Volts
- Power Factor Correction is 0.99
- Four rollers Air cooling and Water cooling wire feeder are optional
- LCD display is optional, language changing is available on LCD version
- Multi functions include MIG/MAG Synergic, MIG/MAG manual, Gas/Gasless, TIG and Stick
- Spool gun ready
- Foot control for TIG function is available
- Finger control for TIG function is available
- Digital display on MIG torch is available
- D200/5kg and D300/20kg wire spool size
- Synergic control
- Generator Friendly
- 800Volts tested in production
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- MIG (GMAW)
- FLUX CORED (FCAW)
- MMA (SMAW)
- LIFT TIG

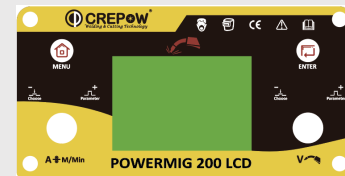
Optional Accessories



Model	MULTIMIG 500 MV											
Power supply voltage (V)	200-660											
Power frequency (Hz)	50/60											
Input voltage (V)	1~230			3~230			3~400			3~600		
	MIG	TIG	MMA	MIG	TIG	MMA	MIG	TIG	MMA	MIG	TIG	MMA
Effective current (A)	26.5	20.1	29.7	25.6	20.1	28	25.7	20.4	26.6	19	15.5	19.2
Rated input current (A)	34.2	25.9	38.3	33	26	36.2	33.2	26.3	34.3	24.5	20	24.8
Rated input power (KW)	7.8	5.9	8.7	12.6	9.9	13.8	22	17.4	22.7	21.7	17.3	22.3
Duty cycle 40°C 10min	60% 250A			60% 350A			60% 500A			60% 500A		
	100% 195A			100% 270A			100% 385A			100% 385A		
Welding current range (A)	40-250	10-250	10-250	40-350	10-350	10-350	40-500	10-500	10-500	40-500	10-500	10-500
Welding voltage range (V)	16-26.5	10.3-20	20.3-30.1	16-31.5	10.3-24	20.3-34.2	16-39	10.3-30.3	20.3-40.4	16-39	10.3-30	20.3-39.8
Wire feeding speed (m/min)	1.5-24	-	-	1.5-24	-	-	1.5-24	-	-	1.5-24	-	-
No load voltage(V)	84			84			84			122		
Efficiency (%)	86.3			87.3			89.1			89.8		
Power factor	0.99			0.96			0.96			0.87		
Insulation class	F											
Protection class	IP21S											
Cooling	AF											
Net weight (kg)	36											
Dimensions (mm)	710*270*490											

POWERMIG 200LCD

- Global input voltage from Single phase 90Volts to 275Volts
- Power Factor Correction 0.99
- 275Volts tested in production
- LCD display is optional, language changing is available on LCD version
- Multi functions include MIG/MAG Synergic, MIG/MAG manual, Gas/Gasless, HF DC TIG, Pulsed TIG and Stick
- Job function can save 10 different welding settings
- Foot control for TIG function is available
- Finger control for TIG function is available
- D100/1kg and D200/5kg wire spool size
- Synergic control
- Spool gun ready
- Generator Friendly
- MCU control system
- Moisture proof
- Salt Spray proof
- Corrosion proof



Light Industrial / Semi-Industrial



Processes

- MIG (GMAW)
- FLUX CORED (FCAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



MIG 15AK Torch



TIG 17



Earth Clamp



Electrode Holder



Regulator and Gas Hose

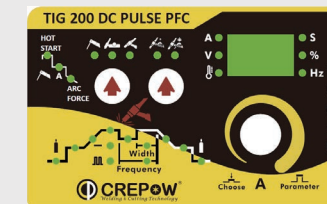


Foot Remote Control

Model	POWERMIG 200LCD					
Power supply voltage (V)	90-275V					
Power frequency (Hz)	50/60					
Input voltage (V)	1~110			1~230		
	MIG	TIG	MMA	MIG	TIG	MMA
Effective current (A)	23.4	17.7	17.7	17.7	13.9	20.2
Rated input current (A)	37	28	28	28	22	32
Rated input power (KW)	3.9	3.1	3.1	6.1	4.7	6.8
Duty cycle 40°C 10min	40% 140A		40% 100A	40% 200A		
	60% 115A		60% 85A	60% 165A		
	100% 90A		100% 65A	100% 130A		
Welding current range (A)	25-140	10-140	10-100	25-200	10-200	10-200
Welding voltage range (V)	15.3-21	10.4-15.6	20.4-24	15.3-24	10.4-18	20.4-18
Wire feeding speed (m/min)	1.5-4.5	-	-	1.5-16.5	-	-
No load voltage(V)	65			65		
Efficiency (%)	77.3			82.4		
Power factor	0.99					
Insulation class	F					
Protection class	IP21S					
Cooling	AF					
Net weight (kg)	17					
Dimensions (mm)	525*220*410					

TIG200 DC PULSE PFC

- Global input voltage from Single phase 90Volts to 275Volts
- Power Factor Correction 0.99
- MCU control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- Multi functions include HF DC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- Pulse frequency can be adjusted from 0.1-999Hz
- Foot control for TIG function is available
- Finger control for TIG function is available
- Wireless hand remote control is available
- Wireless foot control is available
- Generator Friendly
- 275Volts tested in production
- 2T/4T
- Arc start at 3Amps
- Moisture proof
- Salt Spray proof
- Corrosion proof



Decoration / Light Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



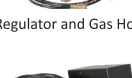
TIG 17



Earth Clamp



Electrode Holder



Regulator and Gas Hose



Foot Remote Control



Carry Case

Model	TIG 200 DC PULSE PFC			
Power supply voltage (V)	90-275V			
Power frequency (Hz)	50/60			
Input voltage (V)	1~110		1~230	
	TIG	MMA	TIG	MMA
Effective current (A)	22.3	23.7	15.1	18.3
Rated input current (A)	23.5	37.5	19.5	29
Rated input power (KW)	2.6	4.1	4.5	6.7
Duty cycle 40°C 10min	60% 130A		40% 130A	60% 200A
	100% 125A		60% 110A	60% 165A
			100% 85A	100% 130A
Welding current range (A)	3-130	10-130	3-200	10-200
No load voltage(V)	70		70	70
Efficiency (%)	86			
Power factor	0.99			
Insulation class	F			
Protection class	IP21S			
Cooling	AF			
Net weight (kg)	8.7			
Dimensions (mm)	510*150*280			

TIG 250-1 DC PULSE

- Inverter IGBT technology
- MCU control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- Multi functions include HF DC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- 275Volts tested in production
- Pulse frequency can be adjusted from 0.1-999Hz
- Foot control for TIG function is available
- Finger control for TIG function is available
- Wireless hand remote control is available
- Wireless foot control is available
- Generator Friendly
- Moisture proof
- Salt Spray proof
- Corrosion proof
- 2T/4T



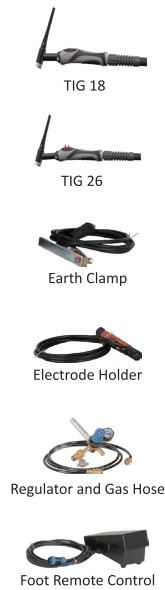
Light Industrial / Semi-Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

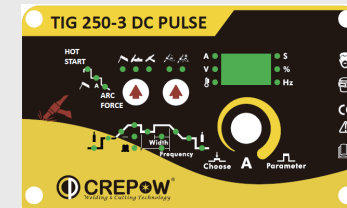
Optional Accessories



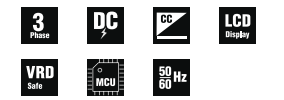
Model	TIG 250-1 DC PULSE	
Power supply voltage (V)	1~230	
Power frequency (Hz)	50/60	
	TIG	MMA
Effective current (A)	31	43.8
Rated input current (A)	40	56.5
Rated input power (KW)	9.2	13
Duty cycle 40°C 10min	60% 250A 100% 195A	
Welding current range (A)	10-250	
No load voltage(V)	78.5	
Efficiency (%)	87.7	
Power factor	0.68	
Insulation class	F	
Protection class	IP21S	
Cooling	AF	
Net weight (kg)	12.8	
Dimensions (mm)	550*190*360	

TIG 250-3 DC PULSE

- Inverter IGBT technology
- MCU control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- Multi functions include HF DC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- 275Volts tested in production
- Pulse frequency can be adjusted from 0.1-999Hz
- Foot control for TIG function is available
- Finger control for TIG function is available
- Wireless hand remote control is available
- Wireless foot control is available
- Generator Friendly
- Moisture proof
- Salt Spray proof
- Corrosion proof
- 2T/4T



Light Industrial / Semi-Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

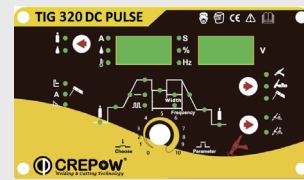
Optional Accessories



Model	TIG 250-3 DC PULSE	
Power supply voltage (V)	3~400	
Power frequency (Hz)	50/60	
	TIG	MMA
Effective current (A)	9.9	14.1
Rated input current (A)	12.8	18.2
Rated input power (KW)	8.9	12.6
Duty cycle 40°C 10min	60% 250A 100% 195A	
Welding current range (A)	5-250	10-250
No load voltage(V)	73.5	20.5
Efficiency (%)	89.5	
Power factor	0.68	
Insulation class	F	
Protection class	IP21S	
Cooling	AF	
Net weight (kg)	12.8	
Dimensions (mm)	550*190*360	

TIG 320 DC PULSE

- Inverter IGBT technology
- IGBT Module
- MCU control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- 2T/4T
- Multi functions include HF DC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- Pulse frequency can be adjusted from 0.1-999Hz
- Water cooling is available for long time welding or high current welding
- Foot control for TIG function is available
- Finger control for TIG function is available
- Wireless hand remote control is available
- Wireless foot control is available
- 550Volts tested in production
- Generator Friendly
- Phase loss Protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



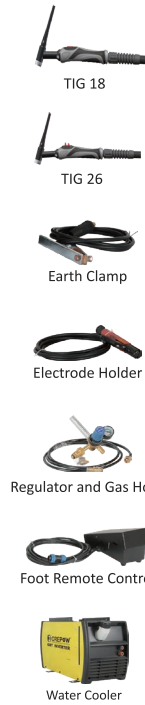
Industrial / Semi-Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

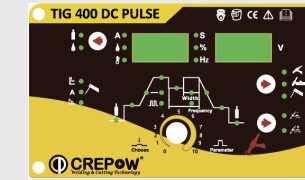
Optional Accessories



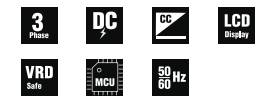
Model	TIG 320 DC PULSE	
Power supply voltage (V)	3~400	
Power frequency (Hz)	50/60	
	TIG	MMA
Effective current (A)	14.3	18.9
Rated input current (A)	18.4	24.4
Rated input power (KW)	7.4	9.8
Duty cycle 40°C 10min	60% 320A 100% 250A	
Welding current range (A)	5-320	10-320
No load voltage(V)	72.7	
Efficiency (%)	86.7	
Power factor	0.7	
Insulation class	F	
Protection class	IP21S	
Cooling	AF	
Net weight (kg)	18	
Dimensions (mm)	550*190*360	

TIG 400/500 DC PULSE

- Inverter IGBT technology
- IGBT Module
- MCU control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- 2T/4T
- Multi functions include HF DC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- Pulse frequency can be adjusted from 0.1-999Hz
- Water cooling is available for long time welding or high current welding
- Foot control for TIG function is available
- Finger control for TIG function is available
- Wireless hand remote control is available
- Wireless foot control is available
- 550Volts tested in production
- Generator Friendly
- Phase loss Protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



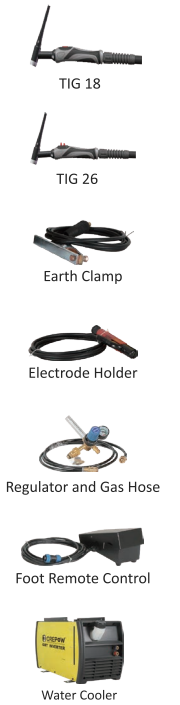
Industrial / Heavy Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	TIG 400 DC PULSE		TIG 500 DC PULSE	
Power supply voltage (V)	3~400		3~400	
Power frequency (Hz)	50/60		50/60	
	TIG	MMA	TIG	MMA
Effective current (A)	18.7	24.6	25.9	32.5
Rated input current (A)	24.1	31.8	33.4	42
Rated input power (KW)	16.7	22.1	23.2	29.1
Duty cycle 40°C 10min	60% 400A 100% 310A		60% 500A 100% 390A	
Welding current range (A)	10-400		10-500	
No load voltage(V)	74		78	
Efficiency (%)	87.8		89.7	
Power factor	0.75		0.77	
Insulation class	F		F	
Protection class	IP21S		IP21S	
Cooling	AF		AF	
Net weight (kg)	30		35	
Dimensions (mm)	710*270*490		710*270*490	

TIG 285 MV

- Global Input Voltage from 1ph 90Volts to 275Volts and 3phs 175Volts to 500Volts
- Power Factor Correction is 0.99
- IGBT Module
- MCU control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- 2T/4T
- Multi functions include HF DC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- Pulse frequency can be adjusted from 0.1-999Hz
- Water cooling is available for long time welding or high current welding
- Foot control for TIG function is available
- Finger control for TIG function is available
- Wireless hand remote control is available
- Wireless foot control is available
- Generator Friendly
- 550Volts tested in production
- Phase loss Protection
- Moisture proof
- Salt Spray proof



Industrial / Semi-Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

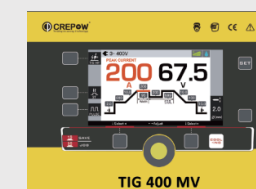
Optional Accessories



Model	TIG 285 MV									
Power supply voltage (V)	90-500									
Power frequency (Hz)	50/60									
Input voltage (V)	1~110		1~230		3~230		3~400		3~460	
	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Effective current (A)	20.5	31.4	16.3	23.6	11.2	15.9	7.6	10.1	8.7	11.7
Rated input current (A)	26.5	40.5	21	30.5	14.5	20.5	12	16	13.7	18.5
Rated input power (KW)	2.9	4.4	4.9	7	5.8	8.2	8.4	11.2	11	14.8
Duty cycle 40°C 10min	60% 130A 100% 100A		60% 200A 100% 155A		60% 220A 100% 170A		60% 285A 100% 220A		60% 285A 100% 220A	
	5-130	10-130	5-200	10-200	5-220	10-220	5-285	10-285	5-285	10-285
No load voltage(V)	86	10.3	86	10.3	86	10.3	86	10.3	86	10.3
Efficiency (%)	83.7									
Power factor	0.99		0.99		0.95		0.95		0.73	
Insulation class	F									
Protection class	IP21S									
Cooling	AF									
Net weight (kg)	20.5									
Dimensions (mm)	570*200*370									

TIG 400 MV

- Global Input Voltage from 1ph 200Volts to 3phs 660Volts
- Power Factor is 0.99
- IGBT Module
- MCU control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- 2T/4T
- Multi functions include HF DC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- Pulse frequency can be adjusted from 0.1-999Hz
- Water cooling is available for long time welding or high current welding
- Foot control for TIG function is available
- Finger control for TIG function is available
- Wireless hand remote control is available
- Wireless foot control is available
- Generator Friendly
- 550Volts tested in production
- Phase loss Protection
- Moisture proof
- Salt Spray proof



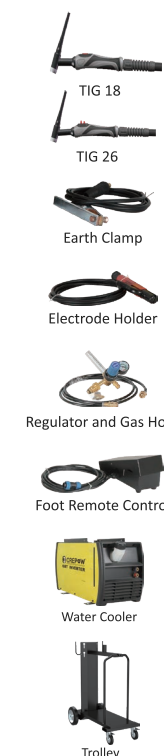
Industrial / Heavy Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

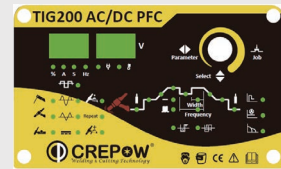
Optional Accessories



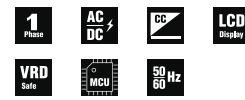
Model	TIG 400 MV							
Power supply voltage (V)	200-660							
Power frequency (Hz)	50/60							
Input voltage (V)	1~230		3~230		3~400		3~600	
	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Effective current (A)	20	29.4	17.5	23.8	13.9	18.9	11.3	14.9
Rated input current (A)	25.8	38	22.6	30.7	17.9	24.4	14.6	19.3
Rated input power (KW)	5.9	8.7	9	12.3	12.4	16.9	15.2	21
Duty cycle 40°C 10min	60% 250A 100% 195A		60% 320A 100% 250A		60% 400A 100% 310A		60% 400A 100% 310A	
	5-250	20-250	5-320	20-320	5-400	20-400	5-400	20-400
No load voltage(V)	68	74	68	74	68	74	95	100
Efficiency (%)	90							
Power factor	0.99		0.96		0.96		0.8	
Insulation class	F							
Protection class	IP21S							
Cooling	AF							
Net weight (kg)	33							
Dimensions (mm)	710*270*490							

TIG 200 ACDC PFC

- Global input voltage from Single phase 90Volts to 275Volts
- Power Factor Correction 0.99
- MCU control system and heavy duty design
- LCD display is optional, language changing is available on LCD version
- 2T/4T
- Multi functions include HF DC TIG, AC TIG, Pulsed TIG, Lift TIG and Stick
- Arc start at 3Amps
- Job function can save 10 different welding settings
- Foot control for TIG function is available
- Finger control for TIG function is available
- Wireless hand remote control is available
- Wireless foot control is available
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Decoration / Light Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

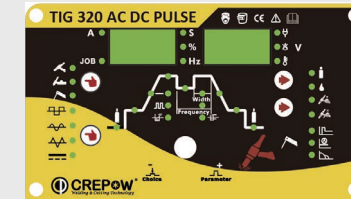
Optional Accessories



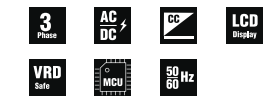
Model	TIG200ACDC PFC							
Power supply voltage (V)	90-275							
Power frequency (Hz)	50/60							
Input voltage (V)	1~110				1~230			
	TIG		MMA		TIG		MMA	
Effective current (A)	23.9	26.2	27.7	30.2	14.9	15.9	17.2	18.5
Rated input current (A)	30.8	33.8	35.8	39	19.2	20.5	29.1	31.3
Rated input power (KW)	3.4	3.7	3.9	4.3	4.4	4.7	6.7	7.2
Duty cycle 40°C 10min	60% 160A 100% 125A		60% 130A 100% 100A		60% 200A 100% 155A		35% 200A 60% 155A 100% 120A	
	3-160		10-130		3-200		10-200	
No load voltage(V)	70		10		70		10	
Efficiency (%)	89.3							
Power factor	0.99							
Insulation class	F							
Protection class	IP21S							
Cooling	AF							
Net weight (kg)	13.2							
Dimensions (mm)	550*190*360							

TIG 320 ACDC PULSE

- Inverter IGBT technology
- IGBT module
- MCU control system and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- 2T/4T
- Multi functions include HF DC TIG, AC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- Foot control for TIG function is available
- Finger control for TIG function is available
- 275Volts /550Volts tested in production
- Wireless hand remote control is available
- Wireless foot control is available
- Generator Friendly
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

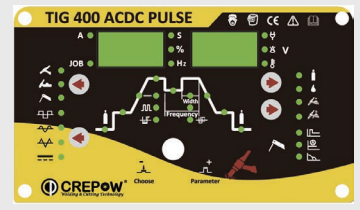
Optional Accessories



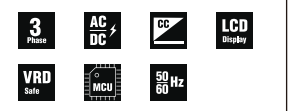
Model	TIG320 ACDC PULSE			
Power supply voltage (V)	3-400			
Power frequency (Hz)	50/60			
	TIG		MMA	
	AC	DC	AC	DC
Effective current (A)	14.2	14.9	18.5	19.6
Rated input current (A)	18.4	19.3	23.9	25.4
Rated input power (KW)	12.8	13.4	16.6	17.5
Duty cycle 40°C 10min	60% 320A 100% 247A			
	10-320			
Welding current range (A)	10-320			
No load voltage(V)	74			
Efficiency (%)	90.3			
Power factor	0.68		0.7	
Insulation class	F			
Protection class	IP21S			
Cooling	AF			
Net weight (kg)	29.5			
Dimensions (mm)	710*270*490			

TIG 400/500 ACDC PULSE

- Inverter IGBT technology
- IGBT module
- MCU control system and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- 2T/4T
- Multi functions include HF DC TIG, AC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- Foot control for TIG function is available
- Finger control for TIG function is available
- 275Volts /550Volts tested in production
- Wireless hand remote control is available
- Wireless foot control is available
- Generator Friendly
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



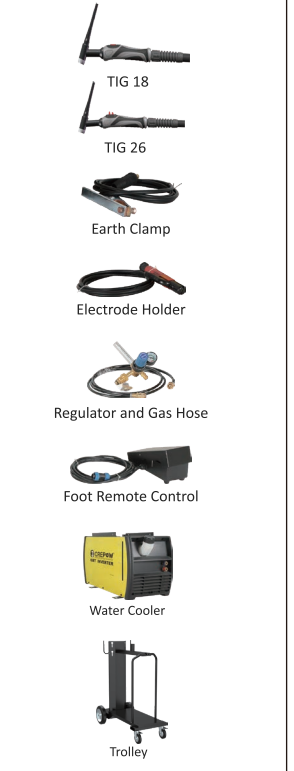
Industrial / Heavy Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

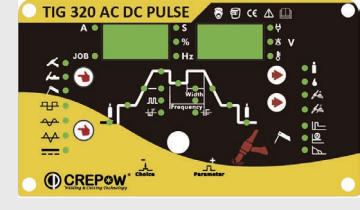
Optional Accessories



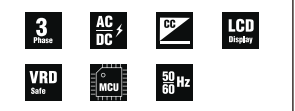
Model	TIG 400 ACDC PULSE				TIG 500 ACDC PULSE			
Power supply voltage (V)	3-400				3-400			
Power frequency (Hz)	50/60				50/60			
	TIG		MMA		TIG		MMA	
	AC	DC	AC	DC	AC	DC	AC	DC
Effective current (A)	18.9	19.4	24	24.8	26.3	27.6	33	34.6
Rated input current (A)	24.4	25.1	30.9	32	34	35.7	42.7	44.7
Rated input power (KW)	16.9	17.4	21.4	22.2	23.6	24.7	39.6	31
Duty cycle 40°C 10min	60% 400A 100% 310A				60% 500A 100% 387A			
Welding current range (A)	10-400				10-500		10-400	
No load voltage(V)	74				75			
Efficiency (%)	90.3				94.4			
Power factor	0.7		0.74		0.7			
Insulation class	F				F			
Protection class	IP21S				IP21S			
Cooling	AF				AF			
Net weight (kg)	30.5				32.6			
Dimensions (mm)	710*270*490				710*270*490			

TIG 351 ACDC PULSE

- Inverter IGBT technology
- IGBT module
- MCU control system and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- 2T/4T
- Multi functions include HF DC TIG, AC TIG, Pulsed TIG, Lift TIG and Stick
- Job function can save 10 different welding settings
- Foot control for TIG function is available
- Finger control for TIG function is available
- 275Volts /550Volts tested in production
- Wireless hand remote control is available
- Wireless foot control is available
- Generator Friendly
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	TIG 351 ACDC PULSE			
Power supply voltage (V)	3-230			
Power frequency (Hz)	50/60			
	TIG		MMA	
	AC	DC	AC	DC
Effective current (A)	25.5	26.3	33.3	34
Rated input current (A)	33	34	43	44
Rated input power (KW)	11.6	11.8	15	15.7
Duty cycle 40°C 10min	60% 350A 100% 271A			
Welding current range (A)	10-350			
No load voltage(V)	68			
Efficiency (%)	91.6			
Power factor	0.85			
Insulation class	F			
Protection class	IP21S			
Cooling	AF			
Net weight (kg)	29.5			
Dimensions (mm)	710*270*490			

TIG 285 ACDC MV

- Global input voltage from Single phase 90Volts to 275Volts and Three phases 175Volts to 500Volts
- Power Factor Correction 0.99
- MCU control system and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- 2T/4T
- Multi functions include HF DC TIG, AC TIG, Pulsed TIG, Lift TIG and Stick
- Arc start at 3Amps
- Job function can save 10 different welding settings
- Foot control for TIG function is available
- Finger control for TIG function is available
- Wireless hand remote control is available
- Wireless foot control is available
- 275Volts tested in production
- Generator Friendly
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

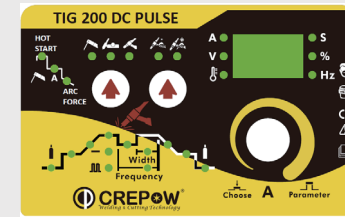
Optional Accessories



Model	TIG 285 ACDC MV																			
Power supply voltage (V)	90-500																			
Power frequency (Hz)	50/60																			
Input voltage (v)	1-110				1-230				3-230				3-400				3-460			
	TIG		MMA		TIG		MMA		TIG		MMA		TIG		MMA		TIG		MMA	
	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
Effective current (A)	19	20.5	29	31.4	15.5	16.3	22.1	23.6	10.5	11.2	15.1	15.9	8.9	7.6	11.6	10.1	10.1	8.7	13.6	11.7
Rated input current (A)	24.5	26.5	37.5	40.5	20	21	28.5	30.5	13.5	14.5	19.5	20.5	11.5	12	15	16	13	13.7	17.5	18.5
Rated input power (KW)	2.7	2.9	4.1	4.4	4.6	4.9	6.5	7	5.4	5.8	7.7	8.2	7.9	8.4	10.5	11.2	10.3	11	13.8	14.8
Duty cycle 40°C 10min	60% 130A 100% 100A		60% 130A 100% 100A		60% 200A 100% 155A		60% 200A 100% 155A		60% 220A 100% 170A		60% 220A 100% 170A		40% 285A 60% 230A 100% 180A		60% 285A 100% 220A		40% 285A 60% 230A 100% 180A		60% 285A 100% 220A	
Welding current range (A)	10-230	5-130	10-130	10-200	5-200	10-200	10-220	5-220	10-220	10-285	5-285	10-285	10-285	5-285	10-285	5-285	10-285	5-285	10-285	5-285
No load voltage(V)	86		10.3		86		10.3		86		10.3		86		10.3		86		10.3	
Efficiency (%)	89.6																			
Power factor	0.99				0.99				0.95				0.95				0.73			
Insulation class	F																			
Protection class	IP21S																			
Cooling	AF																			
Net weight (kg)	20.5																			
Dimensions (mm)	570*200*370																			

TIG 200E DC PULSE

- Inverter IGBT technology
- MCU control system
- 2T/4T
- Multi functions include HF DC TIG, Pulsed TIG, Lift TIG and Stick
- Foot control for TIG function is available
- Finger control for TIG function is available
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



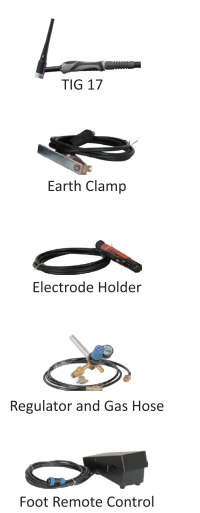
Decoration / Light Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

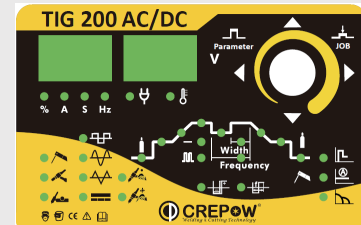
Optional Accessories



Model	TIG 200E DC PULSE	
Power supply voltage (V)	1~230	
Power frequency (Hz)	50/60	
Effective current (A)	TIG	MMA
	25.1	30.1
Rated input current (A)	32.5	
Rated input power (KW)	7.5	
Duty cycle 40°C 10min	60% 200A 100% 155A	40% 200A 100% 126A
Welding current range (A)	10-200	
No load voltage(V)	65	67
Efficiency (%)	84.6	
Power factor	0.61	
Insulation class	F	
Protection class	IP21S	
Cooling	AF	
Net weight (kg)	6.1	
Dimensions (mm)	450*150*280	

TIG 200E ACDC PULSE

- Inverter IGBT technology
- MCU control system
- 2T/4T
- Multi functions include HF DC TIG, AC TIG, Pulsed TIG, Lift TIG and Stick
- Foot control for TIG function is available
- Finger control for TIG function is available
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



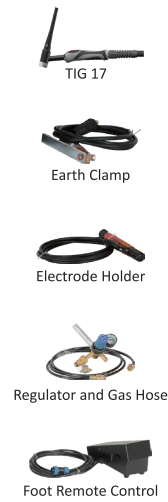
Decoration / Light Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	TIG 200E ACDC PULSE			
Power supply voltage (V)	1-230			
Power frequency (Hz)	50/60			
	TIG		MMA	
	AC	DC	AC	DC
Effective current (A)	19.3	17.4	23.4	25.6
Rated input current (A)	32.7	27.5	37	40.5
Rated input power (KW)	7.5	6.3	8.5	9.3
Duty cycle 40°C 10min	35% 200A 60% 150A 100% 120A	40% 170A 60% 140A 100% 110A	40% 170A 60% 140A 100% 110A	
Welding current range (A)	10-200	10-170	10-170	
No load voltage(V)	73.5			
Efficiency (%)	82			
Power factor	0.6			
Insulation class	F			
Protection class	IP21S			
Cooling	AF			
Net weight (kg)	7.5			
Dimensions (mm)	450*150*280			

ARC 200

- Inverter IGBT technology
- MCU control system
- LCD display is optional, language changing is available on LCD version
- Functions include Stick, Stick VRD, Lift TIG
- Built-in Hot Start, Arc Force, Anti-stick
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Decoration / Light Industrial



Processes

- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	Input power Voltage(V/Hz)	Effective current (A)	Rated input current (A)	Rated input power (KW)	Duty cycle 40°C 10min	Welding current range (A)	No load voltage(V)	Efficiency (%)	Power factor	Insulation Class	Protection class	Cooling	Weight(kg)	Dimensions(mm)
ARC 200	1-230 50/60HZ	MMA: 34.3 TIG: 23.5	MMA: 44.3 TIG: 30.4	MMA: 10.2 TIG: 7	60% 200A 100% 155A	10-200	65	87.6	0.64	F	IP21S	AF	6.3	480*170*280

ARC 320

- Inverter IGBT technology
- MCU control system
- LCD display is optional, language changing is available on LCD version
- Functions include Stick, Stick VRD, Lift TIG
- Hot Start, Arc Force, Anti-stick
- Generator Friendly
- 550Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial



Processes

- MMA (SMAW)
- LIFT TIG

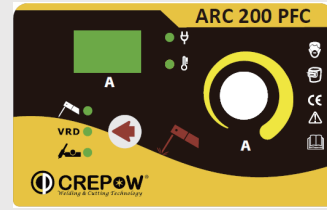
Optional Accessories



Model	Input power Voltage(V/Hz)	Effective current (A)	Rated input current (A)	Rated input power (KW)	Duty cycle 40°C 10min	Welding current range (A)	No load voltage(V)	Efficiency (%)	Power factor	Insulation Class	Protection class	Cooling	Weight(kg)	Dimensions(mm)
ARC 320	3-400 50/60HZ	MMA: 18.9 TIG: 14.3	MMA: 24.4 TIG: 18.4	MMA: 9.8 TIG: 7.4	60% 320A 100% 250A	10-320	MMA: 86 TIG: 72.7	88.6	0.7	F	IP21S	AF	16.1	550*190*360

ARC 200 PFC

- Global input voltage from Single phase 90Volts to 275Volts
- Power Factor Correction is 0.99
- MCU control system
- LCD display is optional, language changing is available on LCD version
- Functions include Stick, Stick VRD, Lift TIG
- Built-in Hot Start, Arc Force, Anti-stick
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Decoration / Light Industrial

1 Phase DC DC LCD Display VRD Safe MCU 50/60 Hz

Processes

- MMA (SMAW)
- LIFT TIG

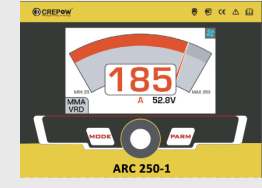
Optional Accessories

- Earth Clamp
- Electrode Holder
- Carry Case

Model	ARC 200 PFC			
Power supply voltage (V)	90-275			
Power frequency (Hz)	50/60			
	1-110		1-230	
	MMA	TIG	MMA	TIG
Effective current (A)	19.3	12	18.5	12.5
Rated input current (A)	30.5	18.9	29.2	19.7
Rated input power (KW)	3.4	2.1	6.7	4.5
Duty cycle 40°C 10min	40% 110A 60% 90A 100% 70A		40% 200A 60% 165A 100% 130A	
Welding current range (A)	10-110		10-200	
No load voltage(V)	67			
Efficiency (%)	84.4			
Power factor	0.99			
Insulation class	F			
Protection class	IP21S			
Cooling	AF			
Net weight (kg)	6.7			
Dimensions (mm)	480*170*280			

ARC 250-1

- Inverter IGBT technology
- MCU control system
- LCD display is optional, language changing is available on LCD version
- Functions include Stick, Stick VRD, Lift TIG
- Hot Start, Arc Force, Anti-stick
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Model	Input power Voltage(V/Hz)	Effective current (A)	Rated input current (A)	Rated input power (KW)	Duty cycle 40°C 10min	Welding current range (A)	No load voltage(V)	Efficiency (%)	Power factor	Insulation Class	Protection class	Cooling	Weight(kg)	Dimensions(mm)
ARC 250-1	1-230 50/60HZ	MMA: 43.8 TIG: 31	MMA: 56.5 TIG: 40	MMA: 13 TIG: 9.2	60% 250A 100% 195A	10-250	78.5	88	0.66	F	IP21S	AF	11	550*190*360

Light Industrial / Semi-Industrial

3 Phase DC DC LCD Display VRD Safe MCU 50/60 Hz

Processes

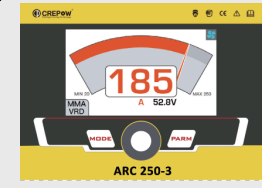
- MMA (SMAW)
- LIFT TIG

Optional Accessories

- Earth Clamp
- Electrode Holder

ARC 250-3

- Inverter IGBT technology
- MCU control system
- LCD display is optional, language changing is available on LCD version
- Functions include Stick, Stick VRD, Lift TIG
- Hot Start, Arc Force, Anti-stick
- Generator Friendly
- 550Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Model	Input power Voltage(V/Hz)	Effective current (A)	Rated input current (A)	Rated input power (KW)	Duty cycle 40°C 10min	Welding current range (A)	No load voltage(V)	Efficiency (%)	Power factor	Insulation Class	Protection class	Cooling	Weight(kg)	Dimensions(mm)
ARC 250-3	3-400 50/60HZ	MMA: 14.2 TIG: 10.1	MMA: 18.3 TIG: 13	MMA: 12.7 TIG: 9	60% 250A 100% 195A	10-250	MMA: 73 TIG: 76	87.4	0.69	F	IP21S	AF	11	550*190*360

Light Industrial / Semi-Industrial

3 Phase DC DC LCD Display VRD Safe MCU 50/60 Hz

Processes

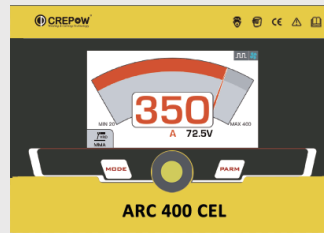
- MMA (SMAW)
- LIFT TIG

Optional Accessories

- Earth Clamp
- Electrode Holder

ARC 400/500 CEL

- Inverter IGBT technology
- MCU control system
- IGBT module and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- Functions include Stick, Stick VRD, Lift TIG
- No load voltage is more than 90Volts suitable for Cellulosic Electrode welding
- Hot Start, Arc Force, Anti-stick
- 550Volts tested in production
- Generator Friendly
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- MMA (SMAW)
- LIFT TIG

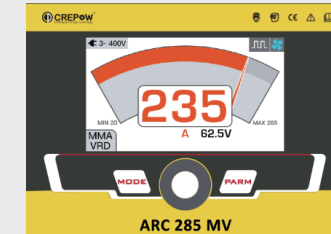
Optional Accessories



Model	ARC 400 CEL		ARC 500 CEL	
Power supply voltage (V)	3-400		3-400	
Power frequency (Hz)	50/60		50/60	
	MMA	TIG	MMA	TIG
Effective current (A)	24.8	18.6	32.5	25.8
Rated input current (A)	32	24	42	33.4
Rated input power (KW)	22.1	16.6	29.1	23.2
Duty cycle 40°C 10min	60% 400A 100% 310A		60% 500A 100% 385A	
Welding current range (A)	20-400		20-500	
No load voltage(V)	93.5		96	91.5
Efficiency (%)	89.2		89.8	
Power factor	0.75		0.77	
Insulation class	F		F	
Protection class	IP21S		IP21S	
Cooling	AF		AF	
Net weight (kg)	28.1		30.7	
Dimensions (mm)	700*265*490		700*265*490	

ARC 285 MV

- Global Input Voltage from 1ph 90Volts to 275Volts and 3phs 175Volts to 500Volts
- Inverter IGBT Module
- MCU control system
- LCD display is optional, language changing is available on LCD version
- Functions include Stick, Stick VRD, Lift TIG
- Hot Start, Arc Force, Anti-stick
- Generator Friendly
- 550Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial



Processes

- MMA (SMAW)
- LIFT TIG

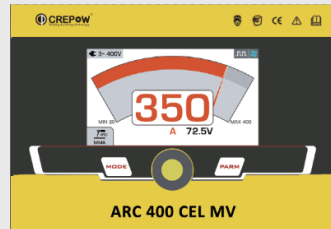
Optional Accessories



Model	ARC 285 MV									
Power supply voltage (V)	90-460									
Power frequency (Hz)	50/60									
Input voltage (V)	1-110		1-230		3-230		3-400		3-460	
	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG
Effective current (A)	31.4	20.5	23.6	16.3	15.9	11.2	10.1	7.6	11.7	8.7
Rated input current (A)	40.5	26.5	30.5	21	20.5	14.5	16	12	18.5	13.7
Rated input power (KW)	4.4	2.9	7	4.9	8.2	5.8	11.2	8.4	14.8	11
Duty cycle 40°C 10min	60% 130A 100% 100A		60% 200A 100% 155A		60% 220A 100% 170A		60% 285A 100% 220A		60% 285A 100% 220A	
Welding current range (A)	10-130	5-130	10-200	5-200	10-220	5-220	10-285	5-285	10-285	5-285
No load voltage(V)	10.3	86	10.3	86	10.3	86	10.3	86	10.3	86
Efficiency (%)	83.7									
Power factor	0.99		0.99		0.95		0.95		0.73	
Insulation class	F									
Protection class	IP21S									
Cooling	AF									
Net weight (kg)	20.5									
Dimensions (mm)	570*200*370									

ARC 400/500 CEL MV

- Global Input Voltage from 1ph 200Volts to 3phs 660Volts
- MCU control system
- IGBT module and heavy duty design
- LCD display is optional, language changing is available on LCD version
- Functions include Stick, Stick VRD, Lift TIG
- Hot Start, Arc Force, Anti-stick
- No load voltage is more than 90Volts suitable for Cellulosic
- Electrode welding
- Generator Friendly
- 800Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	ARC 400 CEL MV								ARC 500 CEL MV							
	1-230		3-230		3-400		3-600		1-230		3-230		3-400		3-600	
Power supply voltage (V)	200-600															
Power frequency (Hz)	50/60															
Input voltage (v)	1-230		3-230		3-400		3-600		1-230		3-230		3-400		3-600	
	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG
Effective current (A)	29.4	20	23.8	17.5	18.9	13.9	14.9	11.3	29.4	20	23.8	17.5	26.3	20.1	19.2	15.5
Rated input current (A)	38	25.8	30.7	22.6	24.4	17.9	19.3	14.6	38	25.8	30.7	22.6	34	26	24.8	20
Rated input power (KW)	8.7	5.9	12.3	9	16.9	12.4	21	15.2	8.7	5.9	12.3	9	23.7	18.2	25.7	20.9
Duty cycle 40°C 10min	60% 250A 100% 195A		60% 320A 100% 250A		60% 400A 100% 310A		60% 400A 100% 310A		60% 250A 100% 195A		60% 320A 100% 250A		60% 500A 100% 390A		60% 500A 100% 390A	
Welding current range (A)	20-250		20-320		20-400		20-400		20-250		20-320		20-500		20-500	
No load voltage(V)	74	68	74	68	74	68	101	95	76.5	70	76.5	70	76.5	70	100	95
Efficiency (%)	90															
Power factor	0.99		0.96		0.96		0.8		0.99		0.96		0.96		0.87	
Insulation class	F															
Protection class	IP21S															
Cooling	AF															
Net weight (kg)	33															
Dimensions (mm)	700*265*490															

ARC 200 EX

- Inverter IGBT technology
- Functions include Stick, and Lift TIG
- Hot Start, Arc Force, Anti-stick
- Built-in or switchable VRD are optional
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Model	Input power Voltage(V/Hz)	Effective current (A)	Rated input current (A)	Rated input power (KW)	Duty cycle 40°C 10min	Welding current range (A)	No load voltage(V)	Efficiency (%)	Power factor	Insulation Class	Protection class	Cooling	Weight(kg)	Dimensions(mm)
ARC 200EX	1-230 50/60HZ	MMA: 20.6 TIG: 14.2	MMA: 46.2 TIG: 31.8	MMA: 10.6 TIG: 7.3	20% 200A	10-200	68	84.9	0.63	F	IP21S	AF	4	300*140*260

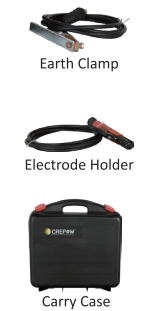
Decoration



Processes

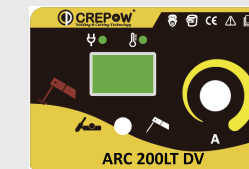
- MMA (SMAW)

Optional Accessories



ARC 200LT DV

- Inverter IGBT technology
- Input Voltage is 1ph 110Volts/220Volts
- Functions include Stick, and Lift TIG
- Hot Start, Arc Force, Anti-stick
- Built-in or switchable VRD are optional
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Model	Input power Voltage(V/Hz)	Effective current (A)	Rated input current (A)	Rated input power (KW)	Duty cycle 40°C 10min	Welding current range (A)	No load voltage(V)	Efficiency (%)	Power factor	Insulation Class	Protection class	Cooling	Weight(kg)	Dimensions(mm)
ARC 200LT DV	1-110 50/60HZ	MMA: 44 TIG: 25.5	MMA: 57 TIG: 33	MMA: 6.3 TIG: 3.6	60% 110A 100% 80A	10-110	80	85	0.6	F	IP21S	AF	4.5	350*140*260
	1-230 50/60HZ	MMA: 35 TIG: 24.5	MMA: 45.5 TIG: 31.4	MMA: 10.5 TIG: 7.2	60% 200A 100% 155A	10-200	80	85	0.6	F	IP21S	AF	4.5	350*140*260

Decoration / Light Industrial



Processes

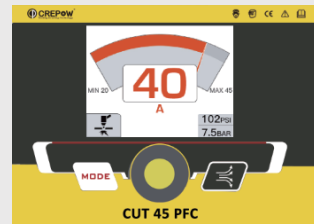
- MMA (SMAW)
- LIFT TIG

Optional Accessories



CUT 45 PFC

- Global input voltage from Single phase 90Volts to 275Volts
- Power Factor Correction is 0.99
- MCU control system
- LCD display is optional, language changing is available on LCD version
- Standard Cutting, Grid cutting and Air Gouging are switchable
- Non HF and Pilot Arc
- Plasma Fasten Center Coupling
- 275Volts tested in production
- Generator Friendly
- Moisture proof
- Salt Spray proof
- Corrosion proof



Decoration / Light Industrial



Processes

- PLASMA (PAC)

Optional Accessories



PLASMA Torch-SC60



PLASMA Torch-S45



Earth Clamp

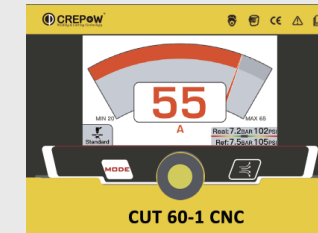


Carry Case

Model	CUT 45 PFC	
Power supply voltage (V)	90-275	
Power frequency (Hz)	50/60	
Input voltage (V)	1-110	1-230
Effective current (A)	18.3	14.4
Rated input current (A)	31	22.7
Rated input power (KW)	3.4	5.1
Duty cycle 40°C 10min	35% 30A	40% 45A
	60% 22A	60% 36A
	100% 20A	100% 28A
No load voltage(V)	377	377
Cutting current range (A)	20-30	20-45
Severance cut for carbon steel (mm)	≤15	≤25
Production cut (mm)		
Carbon steel	≤10	≤16
Stainless steel	≤8	≤16
Aluminum	≤8	≤16
Copper	≤8	≤16
Insulation class	F	F
Protection class	IP21S	IP21S
Cooling	AF	AF
Net weight (kg)	7.7	
Dimensions (mm)	500*150*290	

CUT 60-1 CNC

- Inverter IGBT technology
- IGBT module
- LCD display is optional, language changing is available on LCD version
- Setting air pressure and working air pressure can be displayed by LCD version
- Standard Cutting, Grid cutting and Air Gouging are switchable
- Input voltage is Single Phase 230Volts
- MCU control system and heavy duty design
- Non HF and Pilot Arc
- Capable to work with CNC equipment
- Plasma Fasten Center Coupling
- Generator Friendly
- 275Volts tested in production
- Moisture proof
- Salt Spray proof
- Corrosion proof



Light Industrial / Semi-Industrial



Processes

- PLASMA (PAC)

Optional Accessories



PLASMA Torch-SC60



PLASMA Torch-SC120



Earth Clamp

Model	CUT 60-1 CNC
Power supply voltage (V)	1-230
Power frequency (Hz)	50/60
Effective current (A)	40
Rated input current (A)	41
Rated input power (KW)	7.1
Duty cycle 40°C 10min	95% 60A
	100% 58A
No load voltage(V)	400
Cutting current range (A)	20-60
Severance cut for carbon steel (mm)	≤35
Production cut (mm)	
Carbon steel	≤25
Stainless steel	≤25
Aluminum	≤20
Copper	≤14
Insulation class	F
Protection class	IP21S
Cooling	AF
Net weight (kg)	19
Dimensions (mm)	600*220*400

CUT 65 CNC

- Inverter IGBT technology
- IGBT module
- Input voltage is Three Phase 400Volts
- LCD display is optional, language changing is available on LCD version
- Setting air pressure and working air pressure can be displayed by LCD version
- Standard Cutting, Grid cutting and Air Gouging are switchable
- MCU control system and heavy duty design
- Non HF and Pilot Arc
- Capable to work with CNC equipment
- Plasma Fasten Center Coupling
- Generator Friendly
- 550Volts tested in production
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Light Industrial / Semi-Industrial



Processes

- PLASMA (PAC)

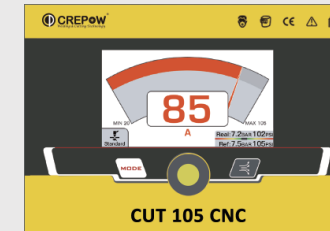
Optional Accessories



Model	CUT 65 CNC
Power supply voltage (V)	3-400
Power frequency (Hz)	50/60
Effective current (A)	16.5
Rated input current (A)	16.5
Rated input power (KW)	11.4
Duty cycle 40°C 10min	100%
No load voltage(V)	312
Cutting current range (A)	20-65
Severance cut for carbon steel (mm)	≤35
Production cut (mm)	
Carbon steel	≤25
Stainless steel	≤25
Aluminum	≤20
Copper	≤14
Insulation class	F
Protection class	IP21S
Cooling	AF
Net weight (kg)	19
Dimensions (mm)	600*220*400

CUT 105 CNC

- Inverter IGBT technology
- IGBT module
- Input voltage is Three Phase 400Volts
- MCU control system and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- Setting air pressure and working air pressure can be displayed by LCD version
- Standard Cutting, Grid cutting and Air Gouging are switchable
- Non HF and Pilot Arc
- Capable to work with CNC equipment
- Plasma Fasten Center Coupling
- Generator Friendly
- 550Volts tested in production
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial



Processes

- PLASMA (PAC)

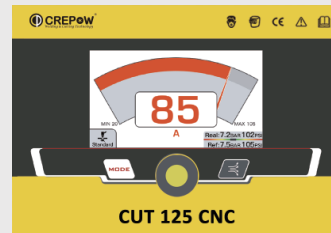
Optional Accessories



Model	CUT 105 CNC
Power supply voltage (V)	3-400
Power frequency (Hz)	50/60
Effective current (A)	28.4
Rated input current (A)	28.4
Rated input power (KW)	19.5
Duty cycle 40°C 10min	100%
No load voltage(V)	395
Cutting current range (A)	20-105
Severance cut for carbon steel (mm)	≤55
Production cut (mm)	
Carbon steel	≤40
Stainless steel	≤30
Aluminum	≤30
Copper	≤20
Insulation class	F
Protection class	IP21S
Cooling	AF
Net weight (kg)	33.2
Dimensions (mm)	780*260*490

CUT 125 CNC

- Inverter IGBT technology
- IGBT module
- Input voltage is Three Phase 400Volts
- MCU control system and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- Setting air pressure and working air pressure can be displayed by LCD version
- Standard Cutting, Grid cutting and Air Gouging are switchable
- Non HF and Pilot Arc
- Capable to work with CNC equipment
- Plasma Fasten Center Coupling
- Generator Friendly
- 550Volts tested in production
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- PLASMA (PAC)

Optional Accessories



PLASMA Torch-SC120



PLASMA Torch-SCM120R

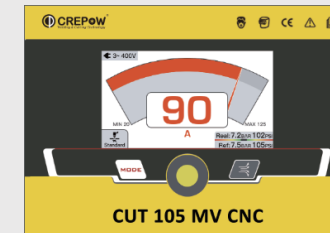


Earth Clamp

Model	CUT 125 CNC
Power supply voltage (V)	3-400
Power frequency (Hz)	50/60
Effective current (A)	35.5
Rated input current (A)	35.5
Rated input power (KW)	24.6
Duty cycle 40°C 10min	100%
No load voltage(V)	395
Cutting current range (A)	20-125
Severance cut for carbon steel (mm)	≤60
Production cut (mm)	
Carbon steel	≤45
Stainless steel	≤45
Aluminum	≤35
Copper	≤25
Insulation class	F
Protection class	IP21S
Cooling	AF
Net weight (kg)	37
Dimensions (mm)	780*260*490

CUT85/105 MV CNC

- Global Input Voltage from 1ph 200Volts to 3phs 660Volts
- IGBT module
- MCU control system and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- Setting air pressure and working air pressure can be displayed by LCD version
- Standard Cutting, Grid cutting and Air Gouging are switchable
- Non HF and Pilot Arc
- Capable to work with CNC equipment
- Plasma Fasten Center Coupling
- Generator Friendly
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial



Processes

- PLASMA (PAC)

Optional Accessories



PLASMA Torch-SC120



PLASMA Torch-SCM120R

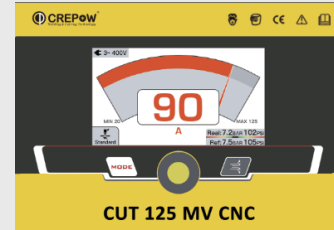


Earth Clamp

Model	CUT 85 MV CNC				CUT 105 MV CNC			
Power supply voltage (V)	200-660				200-660			
Power frequency (Hz)	50/60				50/60			
	1-230	3-230	3-400	3-600	1-230	3-230	3-400	3-600
Effective current (A)	35	23	16.5	13.6	21.9	26.6	21.4	18.3
Rated input current (A)	35	29.7	16.5	13.6	21.9	26.6	21.4	18.3
Rated input power (KW)	8.1	6.8	6.6	8.1	5	10.6	14.2	14.8
Duty cycle 40°C 10min	100%	60%	100%	100%	100%	100%	100%	100%
No load voltage(V)	308	308	308	460	295	295	295	424
Cutting current range (A)	20-65	20-85	20-85	20-85	20-45	20-80	20-105	20-105
Severance cut for carbon steel (mm)	≤35	≤40	≤40	≤55	≤25	≤40	≤55	≤55
Production cut (mm)								
Carbon steel	≤25	≤30	≤30	≤30	≤16	≤30	≤40	≤40
Stainless steel	≤25	≤25	≤25	≤25	≤16	≤25	≤30	≤30
Aluminum	≤20	≤25	≤25	≤25	≤16	≤25	≤30	≤30
Copper	≤14	≤20	≤20	≤20	≤16	≤20	≤20	≤20
Insulation class	F				F			
Protection class	IP21S				IP21S			
Cooling	AF				AF			
Net weight (kg)	22				36			
Dimensions (mm)	700*230*400				780*260*490			

CUT 125 MV CNC

- Global Input Voltage from 1ph 200Volts to 3phs 660Volts
- IGBT module
- MCU control system and ideal for heavy duty use
- LCD display is optional, language changing is available on LCD version
- Setting air pressure and working air pressure can be displayed by LCD version
- Standard Cutting, Grid cutting and Air Gouging are switchable
- Non HF and Pilot Arc
- Capable to work with CNC equipment
- Plasma Fasten Center Coupling
- Generator Friendly
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Heavy Industrial

1 Phase 3 Phase LCD MCU 50/60 Hz

Processes

- PLASMA (PAC)

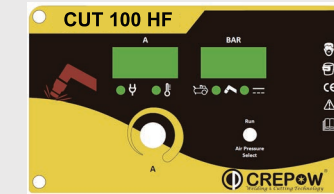
Optional Accessories

- PLASMA Torch-SC120
- PLASMA Torch-SCM120R
- Earth Clamp

Model	CUT 125 MV CNC			
Power supply voltage (V)	200-660			
Power frequency (Hz)	50/60			
	1-230	3-230	3-400	3-600
Effective current (A)	22	26.5	26.8	21.7
Rated input current (A)	22	26.5	26.8	21.7
Rated input power (KW)	5.1	6.1	10.7	13
Duty cycle 40°C 10min	100%	100%	100%	100%
No load voltage(V)	295	295	295	424
Cutting current range (A)	20-45	20-80	20-125	20-125
Severance cut for carbon steel (mm)	≤25	≤40	≤60	≤60
Production cut (mm)				
Carbon steel	≤16	≤30	≤45	≤45
Stainless steel	≤16	≤25	≤45	≤45
Aluminum	≤16	≤25	≤35	≤35
Copper	≤16	≤20	≤25	≤25
Insulation class	F			
Protection class	IP21S			
Cooling	AF			
Net weight (kg)	36			
Dimensions (mm)	780*260*490			

CUT 100 HF

- Inverter IGBT technology
- IGBT module
- Input voltage is Three Phase 400Volts
- MCU control system and ideal for heavy duty use
- Standard Cutting
- HF arc start and Pilot Arc
- Plasma Fasten Center Coupling
- Generator Friendly
- 550Volts tested in production
- Phase loss protection
- Moisture proof
- Salt Spray proof
- Corrosion proof



Industrial / Semi-Industrial

3 Phase MCU 50/60 Hz

Processes

- PLASMA (PAC)

Optional Accessories

- PLASMA Torch-A101
- Earth Clamp

Model	CUT 100 HF
Power supply voltage (V)	3-400
Power frequency (Hz)	50/60
Effective current (A)	19
Rated input current (A)	30
Rated input power (KW)	12
Duty cycle 40°C 10min	40% 100A 60% 85A 100% 65A
No load voltage(V)	378
Cutting current range (A)	20-100
Severance cut for carbon steel (mm)	≤55
Production cut (mm)	
Carbon steel	≤40
Stainless steel	≤30
Aluminum	≤30
Copper	≤20
Insulation class	F
Protection class	IP21S
Cooling	AF
Net weight (kg)	19
Dimensions (mm)	660*240*445

BATTERY MIG 100

- Operation without the main electricity
- Extremely compact and portable
- Gasless MIG welding for MIG 100
- Battery indicator shows the state of charge of the battery
- Variable amperage control with digital meter, for a simultaneous welding current display
- Quick charge-Recharges battery to 80% within 35mins and fully charged in 60mins
- Protection from overcharging, deep discharge and overheating
- Protection from over-voltage, under-voltage and over-heat
- The power source can be used for welding while charging



Decoration



Processes

- FLUX CORED (FCAW)

Optional Accessories



Model	BATTERY MIG 100
Battery capacity	300 Wh±5%
Battery rated voltage	74 V
AC charging voltage	230 V
Charging current	4 A
Battery type	Ternary Lithium Battery 18650 2000 mAh
Welding range	14-19 V
No load voltage	60 V
Rated output at 40 °C	15% 19 V/100 A
Charge-discharge cycle life	500 times
Full charge time	1 hour
Charge temperture	0-40 °C
Discharge temperture	- 20-40 °C
Cooling type	AF
Protection class	IP21S
Dimensions(L*W*H)	370 x 148 x 285 mm
Weight	10 kg
Conformity	UN38.3/CE/IEC60974
Battery charger type	Built-in

BATTERY ARC 90

- Operation without the main electricity
- Extremely compact and portable
- MMA welding for ARC 90
- TIG welding with gas-valve torch for ARC 90
- Battery indicator shows the state of charge of the battery
- Built-in Hot start, arc force, and anti-stick
- Variable amperage control with digital meter, for a simultaneous welding current display
- Quick charge-Recharges battery to 80% within 35mins and fully charged in 60mins
- Protection from overcharging, deep discharge and overheating
- Protection from over-voltage, under-voltage and over-heat
- The power source can be used for welding while charging



Decoration



Processes

- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	BATTERY ARC 90
Battery capacity	300 Wh±5%
Battery rated voltage	74 V
AC charging voltage	230 V
Charging current	4 A
Battery type	Ternary Lithium Battery 18650 2000 mAh
Welding range	20-90 A
No load voltage	60 V
VRD	14 V
Rated output at 40 °C	15% 90A 30% 80A 50% 60A
Charge-discharge cycle life	500 times
Full charge time	1 hour
Charge temperture	0-40 °C
Discharge temperture	- 20-40 °C
Cooling type	AF
Protection class	IP21S
Dimensions(L*W*H)	355 x 135 x 268 mm
Weight	7.5 kg
Conformity	UN38.3/CE/IEC60974
Battery charger type	Built-in

BATTERY ARC 180

- Operation without the main electricity
- Extremely compact and portable
- MMA welding for ARC 180
- TIG welding with gas-valve torch for ARC 180
- Battery indicator shows the state of charge of the battery
- Built-in Hot start, arc force, and anti-stick
- Variable amperage control with digital meter for a simultaneous welding current display
- Quick charge-Recharges battery to 80% within 35mins and fully charged in 60mins
- Protection from overcharging, deep discharge and overheating
- Protection from over-voltage, under-voltage and over-heat
- The power source can be used for welding while charging



Decoration

1 Phase DC VRD 50/60 Hz

Processes

- MMA (SMAW)
- LIFT TIG

Optional Accessories

- Earth Clamp
- Electrode Holder
- Carry Case

Model	BATTERY ARC 180
Battery capacity	740 Wh±5%
Battery rated voltage	74 V
AC charging voltage	230 V
Charging current	8 A
Battery type	Ternary Lithium Battery 18650 2500 mAh
Welding range	10-180 A
No load voltage	61.50 V
VRD	14 V
Rated output at 40 °C	10% 180A
	20% 130A
	100% 60A
Charge-discharge cycle life	500 times
Full charge time	1 hour
Charge temperature	0-40 °C
Discharge temperature	- 20-40 °C
Cooling type	AF
Protection class	IP21S
Dimensions(L*W*H)	440 x 150 x 280 mm
Weight	11.5 kg
Conformity	UN38.3/CE/IEC60974
Battery charger type	External

LSW 1500/2000/3000

- Easy Operation and 0 Welding experience required
- Strong Welding Strength
- High Quality and Repeatable Welding Result
- High Efficiency and Lower Maintenance Cost
- Simple and Friendly Operation Interface for Easy Operation
- Powerful Cooling System provides Protection for Laser and Torch Head and increase the working life.
- Adjustable Laser Mode
- Compact and Stable
- Cleaning Pre and Post Weld
- Adjustable Laser Welding Power
- Smooth Wire Feeding System
- Fast and Easy Setup
- Multi Welding Purpose for Wide Range of Materials and Thickness
- Welding Steel, Aluminum, Copper, Titanium, Nickel Alloys



Optional Accessories

- Earth Clamp
- Laser Welding Torch

Model	LSW 1500	LSW 2000	LSW 3000
Laser type	Fiber Laser	Fiber Laser	Fiber Laser
Laser wave length (nm)	1075±10	1075±10	1075±10
Outpower (W)	1500	2000	3000
Working mode	Continuous/pulse/self-setting pulse mode	Continuous/pulse/self-setting pulse mode	Continuous/pulse/self-setting pulse mode
Output light spot quality	BPP ≤ 1.5 50 micron fiber output	BPP ≤ 1.5 50 micron fiber output	BPP ≤ 1.5 50 micron fiber output
Cooling method	Water cool	Water cool	Water cool
Core diameter / length	50µm/10m	50µm/15m	50µm/15m
Protection gas	Argon/Nitrogen	Argon/Nitrogen	Argon/Nitrogen
Input voltage	220V±10% 50/60Hz AC	380V±10% 50/60Hz AC	380V±10% 50/60Hz AC
Machine power (KW)	5.9	7.5	11.5
Cooling hydraulics (bar)	5-6	5-6	5-6
Size (mm)	L750*W600*H1000	L750*W600*H1000	L750*W600*H1000
Weight (kg)	130	147	180
Ambient temperature (°C)	5-45	5-45	5-45
Welding thickness (mm)	0.8-4	0.8-6	0.8-8
Applicable materials	Carbon/Stainless/Aluminum/Galvanized sheet	Carbon/Stainless/Aluminum/Galvanized sheet	Carbon/Stainless/Aluminum/Galvanized sheet
Welding gap requirements (mm)	≤0.5	≤0.5	≤0.5

DELTA MIG 350/500/630

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- Stable output performance
- CC/CV design include MIG/Stick function
- Suitable for solid wire and flux-cord wire welding
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof
- Easy control



Industrial / Heavy Industrial



Processes

- MIG (GMAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	DELTA MIG 350	DELTA MIG 500	DELTA MIG 630
Power supply voltage (V)	3~380V±10%	3~380V±10%	3~380±10%
Power frequency (Hz)	50/60	50/60	50/60
Rated input power (KW)	15	29	37
Rated input current (A)	23	43	54
No load voltage(V)	81	81	81
Duty cycle 40°C 10min	350A 60% 270A 100%	500A 60% 387A 100%	630A 60% 487A 100%
Welding current range (A)	60~350	60~500	60~630
Welding voltage range (V)	14~40	15~50	15~50
Power factor	0.9	0.9	0.9
Efficiency (%)	≥80%	≥80%	≥80%
Insulation class	H	H	H
Protection class	IP21S	IP21S	IP21S
Wire diameter (mm)	0.8~1.2	1.0~1.6	1.0~1.6
Net weight (kg)	38	42	46
Dimensions (mm)	670*325*605	670*325*605	670*325*605

DELTA MIG 350S/500S/630S

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- Stable arc and less spatters
- Digital control welding voltage and wave
- Wire type, size and gas type can be selected to according to different welding requirements
- CC/CV design included Synergic MIG/MAG, MIG/Stick function
- Suitable for carbon steel, stainless steel and different alloys welding
- 550V protection test in production
- Stable output performance
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof
- Easy control



Industrial / Heavy Industrial



Processes

- MIG (GMAW)
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	DELTA MIG 350S	DELTA MIG 500S	DELTA MIG 630S
Power supply voltage (V)	3~380V±10%	3~380V±10%	3~380±10%
Power frequency (Hz)	50/60	50/60	50/60
Rated input power (KW)	15	29	37
Rated input current (A)	23	43	54
No load voltage(V)	81	81	81
Duty cycle 40°C 10min	350A 60% 270A 100%	500A 60% 387A 100%	630A 60% 487A 100%
Welding current range (A)	60~350	60~500	60~630
Welding voltage range (V)	14~40	15~50	15~50
Power factor	0.9	0.9	0.9
Efficiency (%)	≥80%	≥80%	≥80%
Insulation class	H	H	H
Protection class	IP21S	IP21S	IP21S
Wire diameter (mm)	0.8~1.2	1.0~1.6	1.0~1.6
Net weight (kg)	38	42	46
Dimensions (mm)	670*325*605	670*325*605	670*325*605

DELTA MIG 350CL/500CL/630CL

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- Digital carrier wave technology
- Stable arc and less spatters
- Suitable for long distance welding
- CC/CV design included Synergic MIG/MAG, MIG/Stick function
- Suitable for carbon steel, stainless steel and different alloys welding
- 550V protection test in production
- Stable output performance
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof
- Easy control



Industrial / Heavy Industrial



Processes

- MIG (GMAW)
- MMA (SMAW)
- LIFT TIG

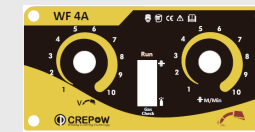
Optional Accessories



Model	DELTA MIG 350CL	DELTA MIG 500CL	DELTA MIG 630CL
Power supply voltage (V)	3~380V±10%	3~380V±10%	3~380±10%
Power frequency (Hz)	50/60	50/60	50/60
Rated input power (KW)	15	29	37
Rated input current (A)	23	43	54
No load voltage(V)	81	81	81
Duty cycle 40°C 10min	350A 60% 270A 100%	500A 60% 387A 100%	630A 60% 487A 100%
Welding current range (A)	60~350	60~500	60~630
Welding voltage range (V)	14~40	15~50	15~50
Power factor	0.9	0.9	0.9
Efficiency (%)	≥80%	≥80%	≥80%
Insulation class	H	H	H
Protection class	IP21S	IP21S	IP21S
Wire diameter (mm)	0.8~1.2	1.0~1.6	1.0~1.6
Net weight (kg)	38	42	46
Dimensions (mm)	674*326*560	674*326*560	674*326*560

DELTA MIG 280DP/350DP/500DP

- Multi functions include double pulsed MIG/MAG, single pulsed MIG/MAG, Synergic MIG/MAG and Stick
- Suitable for carbon steel, stainless steel, copper alloys, aluminum alloys welding
- Full digital synergic welding data groups, it can match the welding setting according to material, wire and gas automatically
- Enough manuals to satisfy with different kind of welding purposes
- 100 different setting can be saved can selected at any time
- 550V protection test in production
- Inverter IGBT technology
- IGBT module
- Heavy duty design
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- MIG (GMAW)
- MIG-P (GMAW-P)
- MMA (SMAW)
- LIFT TIG

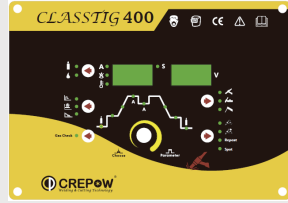
Optional Accessories



Model	DELTA MIG 280DP		DELTA MIG350DP		DELTA MIG 500DP	
Power supply voltage (V)	3~380V±10%		3~380V±10%		3~380V±10%	
Power frequency (Hz)	50/60		50/60		50/60	
	MIG	MMA	MIG	MMA	MIG	MMA
Rated input power (KW)	8.4	9.5	14	16	24	25
Rated input current (A)	17	18	30	33	45	47
No load voltage(V)	88	88	68	14	92	14
Duty cycle 40°C 10min	250A 60% 200A 100%		350A 60% 275A 100%		500A 60% 400A 100%	
Welding current range (A)	20~250		20~350		20~500	
Welding voltage range (V)	13.5~26.5(MIG)		14~35(MIG)		14~50(MIG)	
Power factor	0.9		0.9		0.9	
Efficiency (%)	≥85%		≥85%		≥85%	
Insulation class	H		H		H	
Protection class	IP21S		IP21S		IP21S	
Wire diameter (mm)	0.6~1.0		0.6~1.2		0.6~1.6	
Net weight (kg)	26		23.5		32.5	
Dimensions (mm)	600*230*460		670*325*605		670*325*605	

CLASSTIG 400/500

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- DC TIG, Lift TIG, Stick
- Intelligent protection and durable design
- Good arc starting, easy operation and good welding performance
- Water cooling is suitable for long time welding and big output current welding
- Suitable for stainless steel, carbon steel, alloys, copper, copper alloys, titanium welding
- TIG welding data can be updated by program of software
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Finger control
- Moisture proof
- Salt spray proof
- Corrosion proof
- Foot control



Industrial / Heavy Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

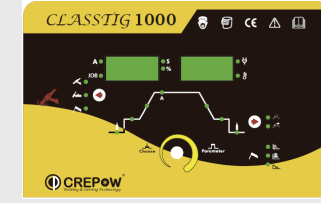
Optional Accessories



Model	CLASSTIG 400		CLASSTIG 500	
Power supply voltage (V)	3~380V±10%		3~380V±10%	
Power frequency (Hz)	50/60		50/60	
	TIG	MMA	TIG	MMA
Rated input power (KW)	13	18	18	19
Rated input current (A)	25	32	33	35
No load voltage(V)	72	72	68	68
Welding current range (A)	10~400		10~500	
Duty cycle 40°C 10min	400A 60% 325A 100%		500A 60% 388A 100%	
Power factor	0.9		0.9	
Efficiency (%)	≥85%		≥85%	
Insulation class	H		H	
Protection class	IP21S		IP21S	
Net weight (kg)	32		37	
Dimensions (mm)	670*325*605		670*325*605	

CLASSTIG 1000

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- DC TIG, Lift TIG, Stick
- 100% duty cycle @ 800A 40 °C
- Good arc starting, easy operation and good welding performance
- Water cooling is suitable for long time welding and big output current welding
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof
- Foot control



Heavy Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

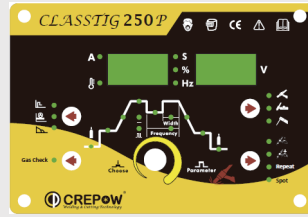
Optional Accessories



Model	CLASSTIG 1000	
Power supply voltage (V)	3~380V±10%	
Power frequency (Hz)	50/60	
	TIG	MMA
Rated input power (KW)	47	59
Rated input current (A)	62	78
No load voltage(V)	90	90
Welding current range (A)	10~1000	
Duty cycle 40°C 10min	1000A 60% 800A 100%	
Power factor	0.9	
Efficiency (%)	≥85%	
Insulation class	H	
Protection class	IP21S	
Net weight (kg)	82	
Dimensions (mm)	800*350*940	

CLASSTIG 250P

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- DC TIG, Pulsed TIG, Lift TIG, Stick
- Friendly operation interface, easy operation
- Work with generator and suitable for working in field
- Good arc starting, easy operation and good welding performance
- Full digital control, each welding data can be set independently
- Suitable for stainless steel, carbon steel, alloys, copper, copper alloys, titanium welding
- Intelligent protection and durable design
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof
- Foot control
- Finger control



Semi-Industrial / Industrial



Processes

- TIG (GTAW)
- MMA (SMAW)
- LIFT TIG

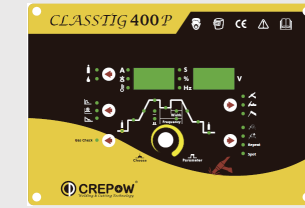
Optional Accessories



Model	CLASSTIG 250P	
Power supply voltage (V)	3~380V±10%	
Power frequency (Hz)	50/60	
	TIG	MMA
Rated input power (KW)	6.7	9.6
Rated input current (A)	14	18
No load voltage(V)	73	73
Welding current range (A)	10~250	
Duty cycle 40°C 10min	250A 60% 195A 100%	
Power factor	0.9	
Efficiency (%)	≥85%	
Insulation class	H	
Protection class	IP21S	
Net weight (kg)	16	
Dimensions (mm)	490*230*420	

CLASSTIG 320P/400P/500P

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- High reliability and efficiency
- DC TIG, Pulsed TIG, Lift TIG, Stick
- Good arc starting, perfect pulse tig welding performance
- Water cooling suits for long time welding at high output welding current
- Suitable for stainless steel, carbon steel, alloys, copper, copper alloys, titanium welding
- Remote control is ideal for long distance welding
- Friendly operation interface, easy operation
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof
- Foot control
- Finger control



Industrial / Heavy Industrial



Processes

- TIG (GTAW)
- PULSE TIG (GTAW-P)
- MMA (SMAW)
- LIFT TIG

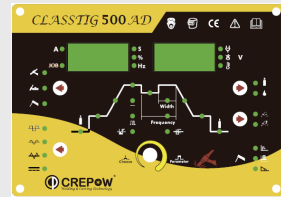
Optional Accessories



Model	CLASSTIG 320P		CLASSTIG 400P		CLASSTIG 500P	
Power supply voltage (V)	3~380V±10%		3~380V±10%		3~380V±10%	
Power frequency (Hz)	50/60		50/60		50/60	
	TIG	MMA	TIG	MMA	TIG	MMA
Rated input power (KW)	10.5	12.8	13	18	18	19
Rated input current (A)	19	23	25	32	33	35
No load voltage(V)	68	68	72	72	68	68
Welding current range (A)	10~320		10~400		10~500	
Duty cycle 40°C 10min	320A 60% 250A 100%		400A 60% 325A 100%		500A 60% 388A 100%	
Power factor	0.9		0.9		0.9	
Efficiency (%)	≥85%		≥85%		≥85%	
Insulation class	H		H		H	
Protection class	IP21S		IP21S		IP21S	
Net weight (kg)	20		32		37	
Dimensions (mm)	670*325*605		670*325*605		670*325*605	

CLASSTIG 320AD/400AD/500AD

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- DC TIG, AC TIG, Pulsed TIG, Lift TIG, Stick
- Suitable for stainless steel, carbon steel, alloys, copper, copper alloys, titanium welding
- Different output wave types can be satisfied with different welding purposes
- Water cooling suits for long time welding at high output welding current
- Remote control is ideal for long distance welding
- Friendly operation interface, easy operation
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof
- Foot control
- Finger control



Semi-Industrial / Industrial



Processes

- TIG (GTAW)
- PULSE TIG (GTAW-P)
- MMA (SMAW)
- LIFT TIG

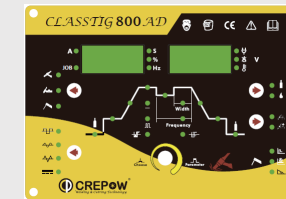
Optional Accessories



Model	CLASSTIG 320AD		CLASSTIG 400AD		CLASSTIG 500AD	
Power supply voltage (V)	3~380V±10%		3~380V±10%		3~380V±10%	
Power frequency (Hz)	50/60		50/60		50/60	
	TIG(AC/DC)	MMA(AC/DC)	TIG(AC/DC)	MMA(AC/DC)	TIG(AC/DC)	MMA(AC/DC)
Rated input power (KW)	9.4/10	12.8/13.9	13/14	18/19	20/22	24/27
Rated input current (A)	17/18	21/24	25/26	34/36	37/41	44/48
No load voltage(V)	67	67	67	67	80	80
Welding current range (A)	10~320		10~400		10~500	
Duty cycle 40°C 10min	320A 60% 250A 100%		400A 60% 310A 100%		500A 60% 400A 100%	
Power factor	0.9		0.9		0.9	
Efficiency (%)	≥85%		≥85%		≥85%	
Insulation class	H		H		H	
Protection class	IP21S		IP21S		IP21S	
Net weight (kg)	29		30		33	
Dimensions (mm)	670*325*605		670*325*605		670*325*605	

CLASSTIG 800 AD

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- DC TIG, AC TIG, Pulsed TIG, Lift TIG, Stick
- Friendly operation interface, easy operation
- Different output wave types can be satisfied with different welding purposes
- Suitable for stainless steel, carbon steel, alloys, copper, copper alloys, titanium welding
- Intelligent fan can make less dust going inside of machine in order to extend working life of machine
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof
- Foot control



Industrial / Heavy Industrial



Processes

- TIG (GTAW)
- PULSE TIG (GTAW-P)
- MMA (SMAW)
- LIFT TIG

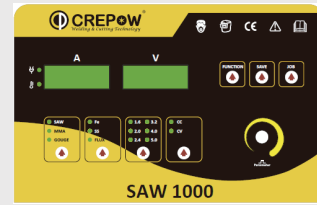
Optional Accessories



Model	CLASSTIG 800AD	
Power supply voltage (V)	3~380V±10%	
Power frequency (Hz)	50/60	
	TIG(AC/DC)	MMA(AC/DC)
Rated input power (KW)	38/40	44/47
Rated input current (A)	58/60	68/70
No load voltage(V)	77	77
Welding current range (A)	10~800	
Duty cycle 40°C 10min	800A 60% 600A 100%	
Power factor	0.9	
Efficiency (%)	≥85%	
Insulation class	H	
Protection class	IP21S	
Net weight (kg)	78	
Dimensions (mm)	780*325*885	

SAW 630/800/1000/1250

- Inverter IGBT technology
- IGBT module
- Heavy duty design
- Easy operation
- Arc stable
- Intelligent arc starting makes high success rate on arc starting
- Full digital control, quick response, good welding characteristics
- Automatic burn back, it is convenient for arc start in next time and return wire
- Good wind channel design provides excellent cooling capability, suitable for long time welding
- Analogous and digital communications interfaces can be worked with automation equipment, robot and other system equipment
- Wire size is from 1.6mm to 5.0mm
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- SAW
- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	SAW 630	SAW 800	SAW 1000	SAW 1250
Power supply voltage (V)	3~380V±10%	3~380V±10%	3~380V±10%	3~380V±10%
Power frequency (Hz)	50/60	50/60	50/60	50/60
Rated input power (KW)	31	43.1	52.5	65.6
Rated input current (A)	60	63	78.1	97.6
No load voltage(V)	78	78	78	78
Duty cycle 40°C 10min	630A 100%	800A 100%	1000A 100%	1250A 60% 1000A 100%
Welding current range (A)	20~630	20~800	20~1000	20~1250
Power factor	0.9	0.9	0.9	0.9
Efficiency (%)	≥80%	≥84%	≥84%	≥84%
Insulation class	H	H	H	H
Protection class	IP21S	IP21S	IP21S	IP21S
Net weight (kg)	34	75	77	77
Dimensions (mm)	670*325*605	800*350*940	800*350*940	800*350*940

FORCEARC 400/500

- Adjustable Hot Start can be satisfied with welding requirements
- It is powerful and enough for long distance and long time welding
- It can work with generator, suitable for welding in field
- Suitable for carbon steel, stainless steel and alloys welding
- Deep welding bath and good welding performance
- VRD feature is safe design for operators
- Intelligent protection and durable design
- 550V protection test in production
- Inverter IGBT technology
- IGBT module
- Heavy duty design
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- MMA (SMAW)
- LIFT TIG

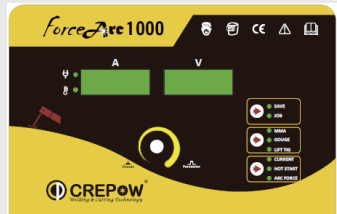
Optional Accessories



Model	FORCEARC 400	FORCEARC 500
Power supply voltage (V)	3~380V±10%	3~380V±10%
Power frequency (Hz)	50/60	50/60
Rated input power (KW)	18	26
Rated input current (A)	35	45
No load voltage(V)	60	88
Welding current range (A)	20~400	20~500
Duty cycle 40°C 10min	400A 60% 325A 100%	500A 60% 400A 100%
Power factor	0.9	0.9
Efficiency (%)	≥80%	≥80%
Insulation class	H	H
Protection class	IP21S	IP21S
Net weight (kg)	26	37
Dimensions (mm)	550*325*595	645*325*595
Electrode type	6013, 7018 etc.	6013, 7018 etc.

FORCEARC 630/800/1000

- Smaller size and lighter weight are good long distance welding
- Adjustable Arc Force and Hot Start, built-in Anti-stick function
- Suitable for carton steel, stainless steel and alloys welding
- Good wind channel design provides excellent cooling capability, suitable for long time welding
- Inverter IGBT technology
- IGBT module
- Heavy duty design
- VRD design
- Analogous and digital communications interfaces can be worked with automation equipment, robot and other system equipment
- Full digital design, quick response of system
- High quality of welding performance
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof



Industrial / Heavy Industrial



Processes

- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	FORCEARC 630			FORCEARC 800			FORCEARC 1000		
Power supply voltage (V)	3~380V±10%			3~380V±10%			3~380V±10%		
Power frequency (Hz)	50/60			50/60			50/60		
	TIG	MMA	GOUGE	TIG	MMA	GOUGE	TIG	MMA	GOUGE
Rated input power (KW)	24.5	31	31	34.8	43.1	43.1	42.5	52.5	52.5
Rated input current (A)	48	60	60	50.8	63.2	63.2	62.5	78.1	78.1
No load voltage(V)	14*	78	78	14*	78	78	14*	78	78
Welding current range (A)	20~630			20~800			20~1000		
Duty cycle 40°C 10min	630A 60% 490A 100%			800A 60% 650A 100%			1000A 60% 800A 100%		
Power factor	0.9			0.9			0.9		
Efficiency (%)	≥84%			≥84%			≥84%		
Insulation class	H			H			H		
Protection class	IP21S			IP21S			IP21S		
Net weight (kg)	34			75			77		
Dimensions (mm)	670*325*605			800*350*940			800*350*940		
Electrode type	6013,7018 etc.			6013,7018 etc.			6013,7018 etc.		

* The no-load voltage is the VRD voltage.

FASTCUT 60

- Inverter IGBT technology
- IGBT module
- Heavy duty design and good reliability
- Input voltage range is from 330Volts to 500Volts
- Intelligent over voltage, low voltage protection
- Suitable for carton steel, stainless steel, aluminum and copper cutting
- 100% duty cycle is good for long time cutting
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof
- Corrosion proof



Model	Input power supply	Rated input power (KW)	Rated input current (A)	Duty cycle 40°C 10min	No load voltage(V)	Cutting current range(A)	Power factor	Insulation class	Protection class	Carbon steel cutting range (mm)	Optimal cutting thickness (mm)	Net weight (kg)	Dimensions (mm)
FASTCUT 60	3~380V±10% 50/60Hz	9.4	18	60A 100%	300	20~60	0.9	H	IP21S	≤ 25	Carbon steel ≤ 25 Stainless steel ≤ 25 Aluminum ≤ 20 Cuprum ≤ 14	23.5	600*230*460

FASTCUT 100 CNC

- Inverter IGBT technology
- IGBT module
- Heavy duty design and good reliability
- Input voltage range is from 330Volts to 500Volts
- Intelligent over voltage, low voltage protection
- Suitable for carton steel, stainless steel, aluminum and copper cutting
- 100% duty cycle is good for long time cutting
- CNC connector
- 550V protection test in production
- Phase loss protection
- Generator friendly
- Moisture proof
- Salt spray proof



Model	Input power supply	Rated input power (KW)	Rated input current (A)	Duty cycle 40°C 10min	No load voltage(V)	Cutting current range(A)	Power factor	Insulation class	Protection class	Carbon steel cutting range (mm)	Optimal cutting thickness (mm)	Net weight (kg)	Dimensions (mm)
FASTCUT 100 CNC	3~380V±10% 50/60Hz	17	30	100A 100%	400	20~100	0.9	H	IP21S	≤ 40	Carbon steel ≤ 40 Stainless steel ≤ 40 Aluminum ≤ 30 Cuprum ≤ 18	32.5	670*325*605

Industrial



Processes

- PLASMA (PAC)

Optional Accessories



Industrial



Processes

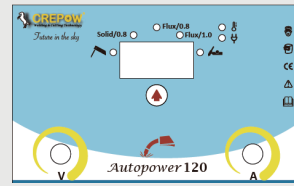
- PLASMA (PAC)

Optional Accessories



AUTOPOWER 120

- Inverter IGBT technology
- Compact size and extremely light weight
- Multi functions include MIG gas and gasless, MMA and TIG
- D100/1kg spool size
- Easy welding with high speed and good reliability



Decoration / Light Industrial



Processes

- MMA (SMAW)
- FLUX CORED (FCAW)
- LIFT TIG

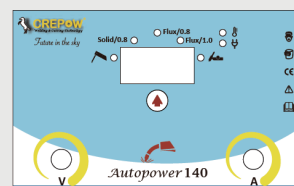
Optional Accessories



Model	Input power Voltage(V/Hz)	Output Current Range	Duty Cycle @25°C	No-load Voltage(V)	Feeding Speed (m/min)	Diameter of Wire(mm)	Wire Spool size(mm)	Efficiency (%)	Insulation Class	Protection class	Weight(kg)	Dimensions(mm)
AUTOPOWER 120	220V±15% 50/60HZ	MIG: 50-120A MMA: 30-100A TIG: 30-120A	30%	62V	2.5-13	0.6-0.8	D100/1KG	85	F	IP21S	4.85	325*165*225

AUTOPOWER 140

- Inverter IGBT technology
- Compact size and extremely light weight
- Multi functions include MIG gas and gasless, MMA and TIG
- D100/1kg spool size
- Easy welding with high speed and good reliability



Decoration / Light Industrial



Processes

- MIG (GMAW)
- MMA (SMAW)
- FLUX CORED (FCAW)
- LIFT TIG

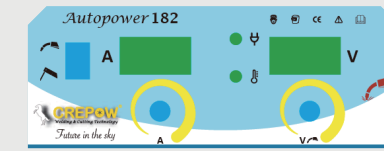
Optional Accessories



Model	Input power Voltage(V/Hz)	Output Current Range	Duty Cycle @25°C	No-load Voltage(V)	Feeding Speed (m/min)	Diameter of Wire(mm)	Wire Spool size(mm)	Efficiency (%)	Insulation Class	Protection class	Weight(kg)	Dimensions(mm)
AUTOPOWER 140	220V±15% 50/60HZ	MIG: 50-140A MMA: 30-120A TIG: 30-140A	30%	62V	2.5-13	0.6-1.0	D100/1KG	85	F	IP21S	5.25	325*165*225

AUTOPOWER 160/182/200

- Inverter IGBT technology
- Compact size and extremely light weight
- Multi functions include MIG gas and gasless, MMA
- D100/1kg and D200/5kg spool sizes
- Easy welding with high speed and good reliability
- Durable metal cabinet design



Decoration / Light Industrial



Processes

- MIG (GMAW)
- MMA (SMAW)
- FLUX CORED (FCAW)
- LIFT TIG

Optional Accessories



Model	Input power Voltage(V/Hz)	Output Current Range	Duty Cycle @25°C	No-load Voltage(V)	Feeding Speed (m/min)	Diameter of Wire(mm)	Wire Spool size(mm)	Efficiency (%)	Insulation Class	Protection class	Weight(kg)	Dimensions(mm)
AUTOPOWER 160	220V±15% 50/60HZ	MIG: 50-160A MMA: 30-140A	40%	53V	2.5-13	0.6-0.9	D100 & 200/1 & 5KG	85	F	IP21S	10	400*205*245
AUTOPOWER 182	220V±15% 50/60HZ	MIG: 50-180A MMA: 30-160A	40%	53V	2.5-13	0.6-1.0	D100 & 200/1 & 5KG	85	F	IP21S	10	400*205*245
AUTOPOWER 200	220V±15% 50/60HZ	MIG: 50-200A MMA: 30-180A	40%	53V	2.5-13	0.6-1.0	D100 & 200/1 & 5KG	85	F	IP21S	10	400*205*245

AUTOPOWER 202

- Inverter IGBT technology
- Compact size and extremely light weight
- Multi functions include MIG gas and gasless, MMA
- D100/1kg and D200/5kg spool sizes
- Easy welding with high speed and good reliability
- Durable metal cabinet design



Light Industrial / Semi-Industrial



Processes

- MIG (GMAW)
- MMA (SMAW)
- FLUX CORED (FCAW)

Optional Accessories



Model	Input power Voltage(V/Hz)	Output Current Range	Duty Cycle @25°C	No-load Voltage(V)	Welding Thickness (mm)	Feeding Speed (m/min)	Diameter of Wire(mm)	Wire Spool size(mm)	Efficiency (%)	Insulation Class	Protection class	Weight(kg)	Dimensions(mm)
AUTOPOWER 202	220V±15% 50/60HZ	MIG: 50-200A MMA: 30-180A	60%	53	Above 0.8	2.5-13	0.6-1.0	D200/1 & 5KG	85	F	IP21S	14	440*230*280

CLASSTIG 161/201

- Inverter IGBT technology
- Compact size and light weight
- Simple operation and easy to use
- Functions includes DC TIG, MMA
- Excellent welding performance on steel and stainless steel welding



Decoration / Light Industrial

1 Phase DC CP VRD Safe 50/60 Hz

Processes

- TIG(GTAW)
- MMA (SMAW)

Optional Accessories

- TIG 17
- Earth Clamp
- Electrode Holder
- Regulator and Gas Hose
- Carry Case

Model	Input power Voltage(V/Hz)	Output Current Range	Duty Cycle @25°C	Post-flow time(S)	No-load Voltage(V)	Efficiency (%)	Insulation Class	Protection class	ARC Starting	Weight(kg)	Dimensions(mm)
CLASSTIG 161	220V±15% 50/60HZ	TIG: 10-160A MMA: 20-160A	60%	1-10	60	85	F	IP21S	HF	7	370*135*240
CLASSTIG 201	220V±15% 50/60HZ	TIG: 10-200A MMA: 20-180A	60%	1-10	60	85	F	IP21S	HF	7	370*135*240

CLASSTIG 200DSP/200P

- Inverter IGBT technology
- Compact size and light weight
- Multi functions includes DC TIG, Pulse TIG, MMA
- Foot control feature makes easy welding
- Excellent welding performance on steel and stainless steel welding
- Full digital control



Decoration / Light Industrial

1 Phase DC CP VRD Safe 50/60 Hz

Processes

- TIG(GTAW)
- PULSE TIG (GTAW-P)
- MMA (SMAW)

Optional Accessories

- TIG 17
- Earth Clamp
- Electrode Holder
- Regulator and Gas Hose
- Foot Remote Control
- Carry Case

Model	Input power Voltage(V/Hz)	Output Current Range	Duty Cycle @25°C	Post-flow time(S)	No-load Voltage(V)	Efficiency (%)	Insulation Class	Protection class	ARC Starting	Weight(kg)	Dimensions(mm)
CLASSTIG 200DSP	220V±15% 50/60HZ	TIG: 10-200A MMA: 10-200A	60%	1-10	56	85	F	IP21S	HF	7	370*135*240
CLASSTIG 200P	220V±15% 50/60HZ	TIG: 10-200A MMA: 10-100A	60%	1-10	56	85	F	IP21S	HF	8	370*135*240

CLASSTIG 202 ACDC PULSE

- Inverter IGBT technology
- Compact size and light weight
- Excellent welding performance on aluminum, magnesium alloy material welding
- Multi functions includes AC TIG, DC TIG, Pulse TIG, MMA
- Foot control feature makes easy welding
- Full digital control



Decoration / Light Industrial

1 Phase AC DC CP VRD Safe 50/60 Hz

Processes

- TIG(GTAW)
- PULSE TIG (GTAW-P)
- MMA (SMAW)

Optional Accessories

- TIG 17
- Earth Clamp
- Electrode Holder
- Regulator and Gas Hose
- Foot Remote Control

Model	Input power Voltage(V/Hz)	Output Current Range	Duty Cycle @25°C	ARC Starting	Pulse frequency (Hz)	Post-flow time(S)	Down Slop time(S)	No-load Voltage(V)	Efficiency (%)	Insulation Class	Protection class	Weight(kg)	Dimensions(mm)
CLASSTIG 202 ACDC PULSE	220V±15% 50/60HZ	TIG: 10-200A MMA: 10-160A	35%	HF	1-200	1-10S	0-10S	56V	85	F	IP21S	13	420*170*300

CLASSTIG 252 ACDC PULSE

- Inverter IGBT technology
- Compact size and light weight
- Excellent welding performance on aluminum, magnesium alloy material welding
- Multi functions includes AC TIG, DC TIG, Pulse TIG, MMA
- Foot control feature makes easy welding
- Full digital control



Light Industrial / Semi-Industrial

3 Phase AC DC CP VRD Safe 50/60 Hz

Processes

- TIG(GTAW)
- PULSE TIG (GTAW-P)
- MMA (SMAW)

Optional Accessories

- TIG 18
- Earth Clamp
- Electrode Holder
- Regulator and Gas Hose
- Foot Remote Control
- Water Cooler

Model	Input power Voltage(V/Hz)	Output Current Range	Duty Cycle @25°C	ARC Starting	Pulse frequency (Hz)	Post-flow time(S)	Down Slop time(S)	No-load Voltage(V)	Efficiency (%)	Insulation Class	Protection class	Weight(kg)	Dimensions(mm)
CLASSTIG 252 ACDC PULSE	220V±15% 50/60HZ	TIG: 10-250A MMA: 10-210A	35%	HF	1-200	1-10S	0-10S	56V	85	F	IP21S	15	460*170*300

FORCEARC 120/142

- DC inverter IGBT technology
- Compact size and extremely light weight
- Simple operation
- Digital display allows to see current changing during welding and setting
- Building in hot start, anti-stick and arc force
- Optional VRD feature



Decoration / Light Industrial



Processes

- MMA (SMAW)

Optional Accessories



Model	Input power Voltage(V/Hz)	Output Current Range(A)	Duty Cycle @25°C	No-load Voltage(V)	Electrode size(mm)	Efficiency(%)	Insulation Class	Protection class	Weight(kg)	Dimensions(mm)
FORCEARC 120	220V±15% 50/60HZ	20-120	60%	60	Ø2.0-3.2mm	85	F	IP21S	2.53	220*98*147
FORCEARC 142	220V±15% 50/60HZ	20-140	60%	60	Ø2.0-3.2mm	85	F	IP21S	2.53	220*98*147

FORCEARC 161/181/201

- DC inverter IGBT technology
- Compact size and extremely light weight
- Simple operation
- Digital display allows to see current changing during welding and setting
- Building in hot start, anti-stick and arc force
- Optional VRD feature



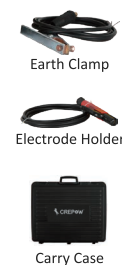
Light Industrial



Processes

- MMA (SMAW)
- LIFT TIG

Optional Accessories



Model	Input power Voltage(V/Hz)	Output Current Range(A)	Duty Cycle @25°C	No-load Voltage(V)	Electrode size(mm)	Efficiency(%)	Insulation Class	Protection class	Weight(kg)	Dimensions(mm)
FORCEARC 161	220V±15% 50/60HZ	20-160	60%	60	Ø2.0-4.0mm	85	F	IP21S	4.6	350*130*210
FORCEARC 181	220V±15% 50/60HZ	20-180	60%	60	Ø2.0-4.0mm	85	F	IP21S	4.6	350*130*210
FORCEARC 201	220V±15% 50/60HZ	20-200	60%	60	Ø2.0-4.0mm	85	F	IP21S	4.6	350*130*210

FORCEARC 255/300

- DC inverter IGBT technology
- Compact size and extremely light weight
- Building in hot start, anti-stick and arc force
- Digital display allows to see current changing during welding and setting
- Adjustable Arc Force
- Optional VRD feature
- Simple operation



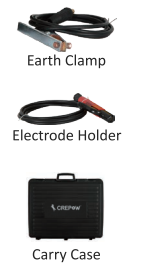
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Processes

- MMA (SMAW)
- LIFT TIG

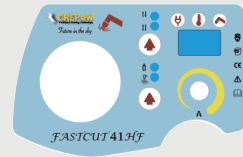
Optional Accessories



Model	FORCEARC 255	FORCEARC 300
Input power Voltage(V/Hz)	380V±15% 50/60HZ	380V±15% 50/60HZ
Output Current Range(A)	20-250	20-300
Duty Cycle @ 25°C	60%	60%
No-load Voltage(V)	69	69
Electrode size	Ø2.0-4.0mm	Ø2.0-4.0mm
Efficiency(%)	85	85
Insulation Class	F	F
Protection Class	IP21S	IP21S
Weight(kg)	12.5	13.8
Dimensions (mm)	440*190*315	440*190*315

FASTCUT 41 HF

- Inverter IGBT technology
- Compact size and light weight
- Pilot Arc Start
- Built-in air filter and regulator
- Plasma central coupling makes connection easier and safer
- HF start



Decoration / Light Industrial

1 Phase 50/60 Hz

Processes

- PLASMA (PAC)

Optional Accessories



Model	Input power Voltage(V/Hz)	Output Current Range	Rated output voltage (V)	Duty Cycle @25 °C	Quality Cutting thickness(mm)	MAX Cutting thickness(mm)	No-load Voltage(V)	Efficiency (%)	Insulation Class	Protection class	Post flow time (s)	Weight(kg)	Dimensions(mm)
FASTCUT 41 HF	220V±15% 50/60HZ	CUT: 20-40A MMA: 10-160A	98	60%	15mm	25mm	330	85	F	IP21S	0-10	11	410*170*300

FASTCUT 45

- Inverter IGBT technology
- Compact size and light weight
- Pilot Arc Start
- Built-in air filter and regulator
- Plasma central coupling makes connection easier and safer
- non-HF start



Decoration / Light Industrial

1 Phase 50/60 Hz

Processes

- PLASMA (PAC)

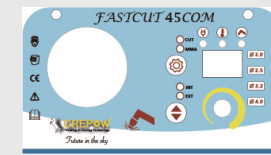
Optional Accessories



Model	Input power Voltage(V/Hz)	Output Current Range	Rated output voltage (V)	Duty Cycle @25 °C	Quality Cutting thickness(mm)	MAX Cutting thickness(mm)	No-load Voltage(V)	Efficiency (%)	Insulation Class	Protection class	Post flow time (s)	Weight(kg)
FASTCUT 45	220V±15% 50/60HZ	CUT: 20-45A MMA: 10-160A	98	60%	15mm	25mm	330	85	F	IP21S	0-10	11

FASTCUT 45 COM

- Inverter IGBT technology
- Built-in air compressor is suitable for any jobs at home or in the small shops
- Compact size and extremely light weight, it is only 14.5kg
- External air compressor is allowed to use
- Pilot Arc Start



Decoration / Light Industrial

1 Phase 50/60 Hz

Processes

- PLASMA (PAC)

Optional Accessories



Model	Input power Voltage(V/Hz)	Output Current Range	Rated output voltage (V)	Duty Cycle @25 °C	Quality Cutting thickness(mm)	MAX Cutting thickness(mm)	No-load Voltage(V)	Efficiency (%)	Insulation Class	Protection class	Post flow time (s)	Weight(kg)	Dimensions(mm)
FASTCUT 45 COM	220V±15% 50/60HZ	CUT: 20-45A MMA: 10-160A	98	60%	15mm	30mm	330	85	F	IP21S	1-10	14.5	450*175*340