



Perfect power welders



Perfect power



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Guangzhou Jingjia Auto Equipment Co., Ltd.
Shanghai Balance Automotive Equipment Co., Ltd.



MAKES PERFECT WELDERS



MIG/MAG



MMA



TIG



**Plasma
cutter**

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Enterprise

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ABOUT PERFECT POWER

Perfect Power is a solution provider of welding and cutting machines, supply quality and user-friendly welding products of inverter MIG/MAG, MMA, TIG, Plasma cutting machines. We' ve been dedicated in the arc welding industry for years, and have experienced a market downturn in the past, so we know technology innovation and product quality control are the keypoints for continuous development. That' s why we never stop investing in research and development, to provide high-performance welding solutions for metalworking applications.



PERFECT POWER MAKES PERFECT WELDERS

“Perfect Power Makes Perfect Welders” , we are driven by customer-oriented and aimed to provide perfect and powerful welding technology products and solutions.

ICON GLOSSARY

	DIY		INDUSTRIAL USE		3PH-220V		CNC ON-SITE & MOBILE CUTTING APPLICATIONS
	3PH-220V /380/440V		GENERATOR FRIENDLY		DUAL VOLTAGE 220V/440V		BUILT-IN AIR COMPRESSOR
	DUAL VOLTAGE 120V/240V		DUAL VOLTAGE 110V/220V		GENERATOR FRIENDLY 70V-130V/170V-250V		

	MMA		MIG/MAG		TIG		Lift TIG
	Plasma cutter		Gouging		Clean		Flux cored(gasless) wire compatible

	IGBT		IGBT module		MOSFET
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	Maintenance and repair		Vehicle maintenance		DIY/Home hobby		Doors and windows
	Yacht		Building and construction		Farms & ranches		Steel fabrication and machining
	Petroleum pipeline		Shipbuilding				

	Cast Iron		Steel/Carbon Steel		Stainless Steel		Copper/Brass
	Aluminum		Nickel		Magnesium		Titanium

 **All Electrically Conductive**

ICON GLOSSARY

Function

	Memory		Intelligent control		Thermal overload protection		Compact and portable
	Remote control		LCD display				

MMA

	Hot start		Arc force		VRD		OCV/80V
	Synergic		Cellulose electrode E7018 E6010				

TIG

	AC/DC		Pulsed		Up slope		Down slope
	2T/4T		Al. fabrication				

MIG/MAG

	Spool gun		Direct torch connector		15KG Wire spool		Synergic
	2T/4T		Double pulsed		Pulsed		Al. fabrication
	Al. sheet		2-Roll wire feeder		4-Roll wire feeder		

CUT

	2T/4T		Grid cutting		Max cutting
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MIG/MAG

Welding Process

MIG/MAG
(GMAW)

Welding Metal Type

Carbon steel
Stainless steel
Low alloy steel
AlMg/AlSi/Cu

Application

Electric power equipment, shipbuilding, pressure vessels, petrochemicals, steel structures, bridges, etc.

Selection Guides

Easiest process to learn high welding speed.

Provide better control on thin metals.

Clean welds possibly without slag.

Same equipment can be used for flux-cored welding.

Double pulse function, spatter-free welding, especially suitable for aluminum welding.



FC-120X / FC-120F



Features

- Multi-function: Gasless flux cored wire welding and MMA . Compact design, lightweight, but robust.
- Centralized control adapt to all kinds of air-free self protecting wire less than 1.0 mm.
- Equipped with trimmer potentiometer on the control panel ,it is more convenient for the voltage compensation of welding to make the welding effect more perfect.
- MMA supports covered electrode welding with a maximum diameter of 3.2mm, with stable output current and continuous arc during welding .
- Overheat, overcurrent and overvoltage protection.

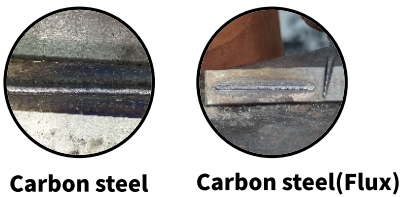
Portable

Turn it on and weld

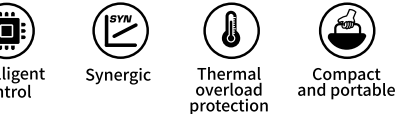
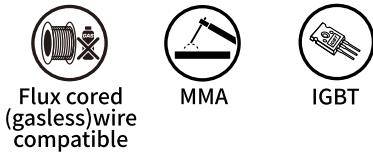


1KG
wire spool

Separable
Welding Torch



Carbon steel Carbon steel(Flux)



Standard Accessories:

- 2m(L) MIG torch .
- 2m(L) cable with 200A ground clamp .
- 2m(L) cable with 200A electrode holder.
- Welding mask & steel brush with hammer.
- 1KG FLUX CORED wire ϕ 1.0mm.

Model	50/60Hz	Input power	I _{1max}	MIG/MAG	MMA	OCV	Duty Cycle (X%)			Wire dia.	Thickness	LxWxH (mm)	KG
							35%	60%	100%				
FC-120X	1pH 110V $\pm$ 15%	4.0KW	35.5A	30-120A	30-120A	56V	120A	92A	71A	0.8-1.0mm	1.0-4.0mm	410*222*260mm	5.0/7.5kg
	1pH 220V $\pm$ 15%						120A	92A	71A				
FC-120F	1pH 110V $\pm$ 15%	4.0KW	35.5A	30-120A	30-120A	56V	120A	92A	71A	0.8-1.0mm	1.0-4.0mm	410*222*260mm	4.0/7.4kg
	1pH 220V $\pm$ 15%						120A	92A	71A				

MIG-140ECO/MIG-160ECO/MIG-200ECO



Features

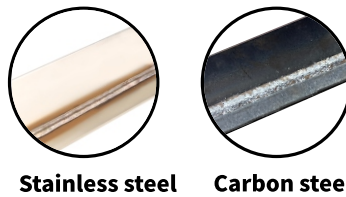
- Multi-process welder for MIG/MAG, gasless flux cored wire welding, MMA and lift TIG.
- Full digital control system, welding parameters can be adjusted independently; Stable arc output, superior welding quality.
- Effective spatter control, improved penetration and better welding effect.
- 1KG/5KG wire spool capable.
- Equipped with trimmer potentiometer on the control panel ,it is more convenient for the voltage compensation of welding to make the welding effect more perfect.
- Ideal for use in outdoor and indoor conditions.
- Operation safety protection against over-voltage low-voltage, over-current and over-heated.

Lightweight and portable

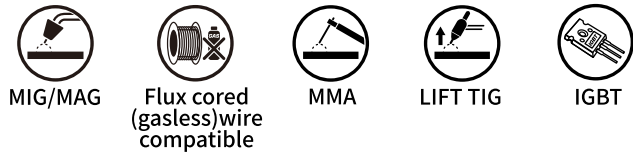
Versatile welding machine



5KG
wire spool



Stainless steel Carbon steel



Standard Accessories:

- 3m(L) 15AK MIG torch.
- 2m(L) cable with 300A ground clamp.
- 2m(L) cable with 200A electrode holder.
- 2m(L) gas hose (hose hoop*2pcs).

Model	 50/60Hz	Input power	 I1max	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)		 Wire dia.	 Thickness	 LxWxH (mm)	 KG	
							30%	100%					
MIG-140ECO	1pH 110V±15%	3.5KW	31A	30-120A	30-120A	56V	MIG	140A	77A	0.6-0.8mm	1.0-6.0mm	520*300*370mm	10.5kg(g.w)
	1pH 220V±15%		19A	30-140A	30-120A		MMA	120A	66A				
MIG-160ECO	1pH 110V±15%	4.1KW	37.2A	30-140A	30-120A	56V	MIG	160A	87A	0.8-1.0mm	1.0-6.0mm	520*300*370mm	10.5kg(g.w)
	1pH 220V±15%		20.5A	30-160A	30-140A		MMA	140A	76A				
MIG-200ECO	1pH 110V±15%	4.9KW	45.0A	30-160A	30-140A	68V	MIG	180A	98A	0.8-1.0mm	1.0-7.0mm	520*300*370mm	12.5kg(g.w)
	1pH 220V±15%		25.0A	30-180A	30-160A		MMA	160A	87A				

MIG-200LCD

Features

- Multi-function welding - MIG/MAG, pulsed MIG/MAG, double pulse MIG/MAG, flux cored wire welding, MMA and lift TIG.
- Double pulse function, spatter-free welding, especially suitable for aluminum welding.

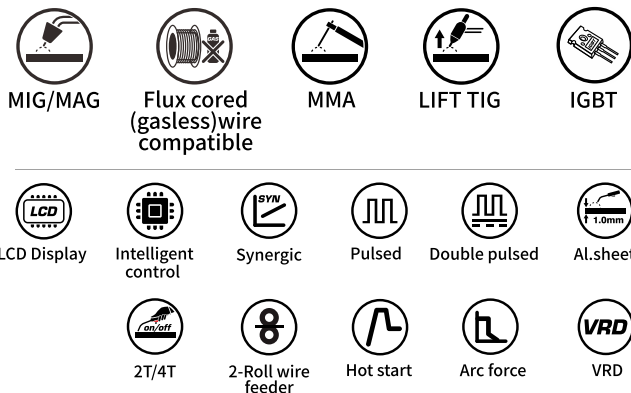
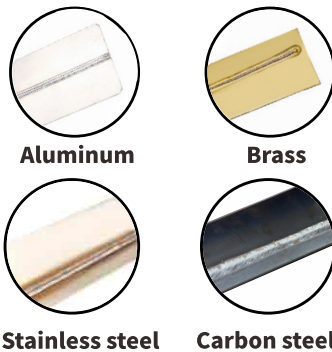
- High speed current capability achieves stable arc and higher efficiency.
- Rich selection of aluminum welding process parameters, such as adjustable pre flow time/post flow time/pulse frequency.



5KG
wire spool

Versatile welder
with synergy control

Support pulse MIG
aluminum welding



Standard Accessories:

- 3m(L) 24KD MIG torch (graphite hose inside) .
- 3m(L) cable with ground clamp .
- 3m(L) cable with electrode holder.
- 3m(L) steel wire feed spring tube.
- 3m(L) gas hose (hose hoop*2pcs).

Model	 50/60Hz	Input power	I _{1max}	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)			 Wire dia.	 Thickness	 LxWxH (mm)	 KG	
								30%	100%					
MIG-200LCD	1pH 220V±15%	6.9KVA	31A	40-200A	30-180A	56V	MIG	200A	110A	0.8-1.2mm	1.0-7.0mm	570*290*428mm	13/17.5kg	
							MMA	180A	99A					
	1pH 110V±15%	5KVA	45A	40-160A	30-120A		MIG	160A	88A					
							MMA	120A	66A					



MIG-350LCD

Features

- Multi-function welding - MIG/MAG, pulsed MIG/MAG, double pulse MIG/MAG, flux cored wire welding, MMA and lift TIG.
- Double pulse function, spatter-free welding, especially suitable for aluminum welding.

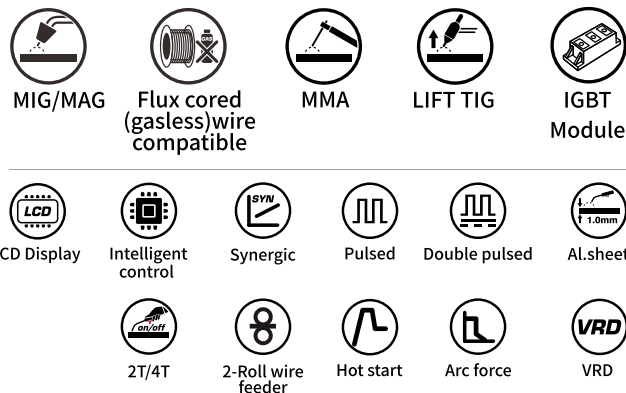
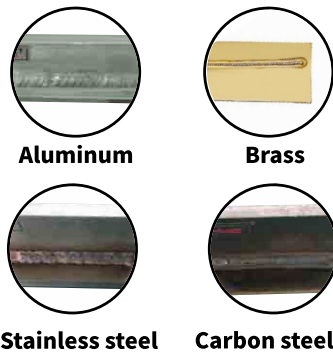
- High speed current capability achieves stable arc and higher efficiency.
- Rich selection of aluminum welding process parameters, such as adjustable pre flow time/post flow time/pulse frequency.



20KG
wire spool

High-performance
digital control welder

Support double pulse
MIG aluminum welding



Standard Accessories:

- 3m(L) 36KD MIG torch (graphite hose inside) .
- 3m(L) cable with ground clamp .
- 3m(L) cable with electrode holder.
- 3m(L) steel wire feed spring tube.
- 3m(L) gas hose (hose hoop*2pcs).
- CO2 pressure regulator with heater 36V(optional).

Model	 50/60Hz	 Input power	 I _{1max}	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)			 Wire dia.	 Thickness	 LxWxH (mm)	 KG	
								60%	100%					
MIG-350LCD	3PH 220V±15%	12KVA	31A	40-300A	30-300A	54V	MIG	300A	232A	0.8-1.2mm	1.0-30.0mm	780*430*645mm	37.5/58kg	
							MMA	300A	232A					
	3PH 380V±15%	15.1KVA	23A	40-350A	30-350A		MIG	350A	271A					
							MMA	350A	271A					
	3PH 440V±15%	15.1KVA	20A	40-350A	30-350A		MIG	350A	271A					
							MMA	350A	271A					

MIG-200C

Features

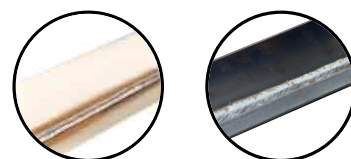
- Full bridge IGBT converter guarantee the stable output power.
- Can achieve MIG/MAG, gasless flux cored wire welding, MMA and lift TIG.
- Simple operation interface plus synergic adjustment, easy to operate.



- Effective spatter control, improved penetration and better welding effect.
- Ideal for use in outdoor and indoor conditions.
- Excellent protection circuit, with overheat and overvoltage protection function, safe and reliable, and easy to trouble shooting.

Full bridge IGBT

Versatile welding machine



Stainless steel Carbon steel



MIG/MAG



Flux cored (gasless) wire compatible



MMA



LIFT TIG



IGBT



DUAL VOLTAGE 110/220V



2-Roll wire feeder



Thermal overload protection



Compact and portable

Standard Accessories:

- 3m(L) 15AK MIG torch .
- 2m(L) cable ground clamp .
- 2m(L) cable electrode holder.
- 2.5m(L) gas hose (hose hoop*2pcs).

Model	 50/60Hz	Input power	I _{max}	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)			 Wire dia.	 Thickness	 LxWxH (mm)	 KG
								60%	100%				
MIG-200C	1pH 110V±15%	4.9KW	35.7A	30-140A(110V)	20-120A(110V)	62V	MIG	180A	140A	0.6-1.0mm	1.0-7.0mm	520*300*375mm	11.0/13.5kg
	1pH 220V±15%		29.0A	30-180A(220V)	20-160A(220V)		MMA	140A	108A				



MIG-230DPLUS

Features

- 7 in 1 - single pulse MIG, double pulse MIG synergy MIG, manual MIG, flux-cored, DC lift TIG, and MMA welding.
- High resolution LCD screen help adjust welding parameter.
- Intelligent synergic control make your work easy. Pulse and double pulse function, spatter-free welding, especially suitable for aluminum welding.

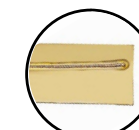
- 2T/4T/spot/ multiple choices menus such as adjustable Pre/postflow air/pulse frequency.
- MMA mode with adjustable VRD control, guarantees operator safety.
- Ideal for both indoor and outdoor use.
- Overheat, overcurrent and overvoltage protection.

Built-in 4-roller wire feeder

Support pulse MIG aluminum welding



Aluminum



Brass



Stainless steel



Carbon steel



MIG/MAG



Flux cored (gasless) wire compatible



MMA



Intelligent control



LCD Display



Synergic



Pulsed



Double pulsed



Al. fabrication



2T/4T



Up slope



Down slope



4-Roll wire feeder



Hot start



Arc force



VRD



Thermal overload protection

Standard Accessories:

- 3M(L) MB25AK MIG Torch.
- 2M(L) 25mm² cable with 300A ground clamp.
- 2M(L) 25mm² cable with 200A electrode holder.
- 2M(L) Gas Hose (Hose Hoop*2pcs) graphite hose (1PCS).
- Slag Hammer&Steel Brush.

Model	 50/60Hz	Input power	I _{max}	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)			 Wire dia.	 Thickness	 LxWxH (mm)	
								60%	100%				
MIG-230DPLUS	1pH 220V±15%	8.4KW	35A	20-230A	20-200A	60V	MIG	230A	178A	0.6-1.2mm	1.0-10.0mm	660*320*510mm	14.5/23kg
							MMA	200A	155A				
	1pH 110V/220V±15%	8.4KW	35A	20-125A(110V) 20-200A(220V)	20-125A(110V) 20-200A(220V)	60V	MIG	200A	155A	0.6-1.2mm	1.0-10.0mm	660*320*510mm	15.5/24.5kg
							MMA	200A	155A				

MIG-200T / MIG-230T



Features

- Full bridge IGBT converter guarantee the stable output power.
- Can achieve MIG/MAG, gasless flux cored wire welding, MMA and lift TIG.
- Integrated construction with rack for easy moving
Welding parameters can be adjusted independently;
Stable arc output, superior welding quality.

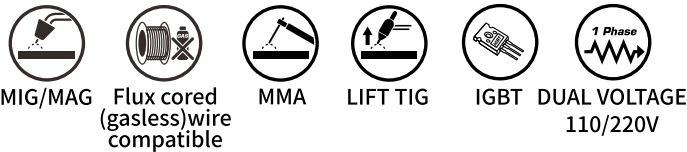
- Effective spatter control, improved penetration and better welding effect.
- Ideal for use in outdoor and indoor conditions.
- Excellent protection circuit, with overheat and overvoltage protection function, safe and reliable, and easy to trouble shooting.

Built-in 2-roller wire feeder

Large 15KG wire feeding



Stainless steel Carbon steel



Standard Accessories:

- 3m(L) 24KD MIG torch .
- 2m(L) cable ground clamp .
- 2m(L) cable electrode holder.
- 3m(L) gas hose (hose hoop*2pcs).

Model	 50/60Hz	Input power	I ₁ max	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)			 Wire dia.	 Thickness	 LxWxH (mm)	 KG
								35%	100%				
MIG-200T	1pH 110V±15%	6.5KW	35.7A	30-140A(110V)	20-120A(110V)	64V	MIG	200A	118A	0.6-1.0mm	1.0-7.0mm	640*370*450mm	20/25kg
	1pH 220V±15%		29.5A	30-200A(220V)	20-160A(220V)		MMA	160A	95A				
MIG-230T	1pH 220V±15%	7.2KW	33.0A	40-220A	40-200A	56V	MIG	220A	130A	0.6-1.2mm	1.0-10.0mm	640*370*450mm	21/26.5kg
							MMA	200A	118A				



MIG-300T

Features

- Full bridge IGBT converter guarantee the stable output power.
- Multi handler for industrial use: MIG/MAG, gasless flux cored wire welding, MMA and lift TIG.
- Centralized regulatory function,save complicated settings and make it more easy to operate.
- Less spatter and high metal deposition rate; nice welding bead and less deformation.

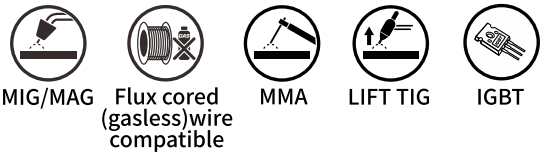
- MMA function is designed to weld various electrodes like acid, alkaline, stainless steel, cast iron, etc. with excellent performance.
- Ideal for use in outdoor and indoor conditions.
- Operation safety protection against over-voltage, low-voltage, over-current and over-heated.

Built-in 4-roller wire feeder

Low splash



Stainless steel Carbon steel



Standard Accessories:

- 3m(L) 24KD MIG torch .
- 2m(L) cable ground clamp .
- 2m(L) cable electrode holder.
- 3m(L) gas hose (hose hoop*2pcs).
- CO2 pressure regulator with heater 36V(optional).

Model	 50/60Hz	Input power	I ₁ max	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)		 Wire dia.	 Thickness	 LxWxH (mm)	 KG	
													
MIG-300T	3pH 380V±15%	10.8KW	28.5A	50-280A	50-250A	62V		35%	100%	0.8-1.2mm	1.0-14.0mm	685*365*675mm	48kg
							MIG	280A	153A				
							MMA	250A	137A				

MIG-300L PRO / MIG-350PRO MIG-350L PRO

Features

- Industrial grade IGBT module adopted.
- Multifunction welder for industrial use: MIG/MAG, gasless flux cored wire welding and MMA.
- Full digital control system, welding parameters can be adjusted independently; Stable arc output, superior welding quality.
- SPL MIG/MAG and SYN MIG/MAG can meet the needs of different users and more simple to operate.

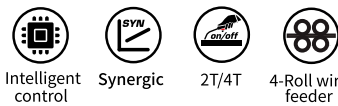
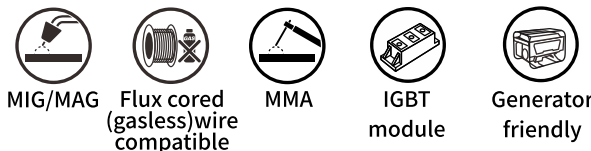


Dual IGBT module

For heavy industry use



Stainless steel Carbon steel



Standard Accessories:

- 3m(L) 36KD MIG torch.
- 3m(L) cable with ground clamp.
- 3m(L) cable with electrode holder.
- 5m(L) external wire feeder.
- Co2 pressure regulator with heater 36V(optional).

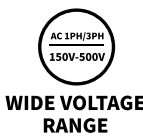
Model	 50/60Hz	Input power	I _{1max}	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)			 Wire dia.	 Thickness	 LxWxH (mm)			
								80%	100%						
MIG-300L PRO	1pH/3pH AC150V-500V	13.3KW	48.0A	40-300A	40-280A	64V	MIG	300A	268A	0.8-1.2mm	2.0-16.0mm	welder	647*367*542mm	welder	19.6/29.6kg
							MMA	280A	250A			wire feeder	550*210*450mm	wire feeder	8.6/9.1kg
MIG-350L PRO	3pH AC150V-500V	15.0KW	45.0A	40-350A	40-350A	68V	MIG	350A	315A	0.8-1.6mm	2.0-30.0mm	welder	695*380*635mm	welder	27.6/39.5kg
							MMA	350A	315A			wire feeder	550*210*450mm	wire feeder	8.6/9.1kg
MIG-350 PRO	3pH-220V±15%	15.0KW	40.0A	40-350A	40-350A	68V	MIG	350A	315A	0.8-1.6mm	2.0-30.0mm	welder	695*380*635mm	welder	26.0/38.0kg
							MMA	350A	315A			wire feeder	550*210*450mm	wire feeder	8.6/9.1kg



MIG-315L PRO

Features

- Full bridge IGBT converter guarantee the stable output power.
- Multifunction welder for industrial use: MIG/MAG, gasless flux cored wire welding and MMA.
- Full digital control system, welding parameters can be adjusted independently; Stable arc output, superior welding quality.
- High efficiency and duty cycle, and no noise from arc welding rectifier.

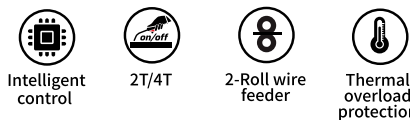
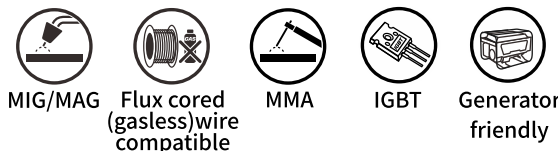


Built-in 2-roller wire feeder

Synergy control



Stainless steel Carbon steel



Standard Accessories:

- 3m(L) 36KD MIG torch .
- 3m(L) cable with 500A ground clamp.
- 3m(L) cable with 400A electrode holder.
- 3m(L) gas hose(hose hoop*2pcs).
- Co2 pressure regulator with heater 36V(optional).

Model	 50/60Hz	Input power	I _{max}	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)			 Wire dia.	 Thickness	 LxWxH (mm)	 KG
								80%	100%				
MIG-315L PRO	1pH/3pH AC150V-500V	15.7KW	29.0A	30-310A	30-270A	62V	MIG	310A	277A	0.8-1.2mm	2.0-16.0mm	647*367*542mm	22/28.5kg
							MMA	270A	242A				

MIG-500L PRO

Features

- Industrial grade IGBT module adopted.
- Multifunction welder for industrial use: MIG/MAG, gasless flux cored wire welding and MMA.
- Full digital control system, welding parameters can be adjusted independently; Stable arc output, superior welding quality.
- High efficiency and duty cycle, and no noise from arc welding rectifier.

- Less spatter and high metal deposition rate; nice welding bead and less deformation.
- Portable separated wire feeder with control cables and control keys. 20kg wire spool capability for heavy industrial use.
- SPL MIG/MAG and SYN MIG/MAG can meet the needs of different users and more simple to operate.
- Overheat, overcurrent and overvoltage protection.



Dual IGBT module

For heavy industry use

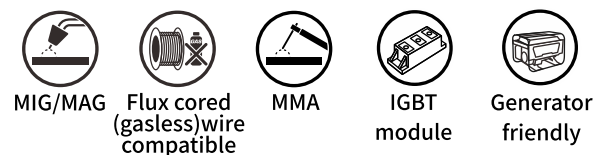


AC 3PH
150V-500V
WIDE VOLTAGE
RANGE

20KG
wire spool



Stainless steel Carbon steel



MIG/MAG Flux cored (gasless) wire compatible MMA IGBT module Generator friendly



Intelligent control Synergic 2T/4T 4-Roll wire feeder Thermal overload protection

Standard Accessories:

- 3m(L) 500A MIG torch .
- 3m(L) cable with 500A ground clamp .
- 3m(L) cable with 500A electrode holder.
- 5m(L) external wire feeder.
- Co2 pressure regulator with heater 36V(optional).

Model	50/60Hz	Input power	I _{1max}	MIG/MAG	MMA	OCV	Duty Cycle (X%)			Wire dia. mm	Thickness mm	LxWxH (mm)	KG
								80%	100%				
MIG-500L PRO	3pH 150V-500V	25.5KW	45.7A	40-500A	40-500A	65V	MIG	500A	447A	0.8-1.6mm	2.0-50.0mm	/	72/95kg
							MMA	500A	478A				

CTMG-418P

Features

- 6 in 1 machine-MIG/MAG , pulsed MIG/MAG , flux cored wire welding , HF TIG, CUT and MMA.
- Full digital control system , welding parameters can be adjusted independently.
- Intelligent synergic control make your work easy.
- At TIG mode , arc starting with HF , 100% success rate of arc ignition.

- Pulse function , spatter-free welding , especially suitable for aluminum welding.
- MMA mode with adjustable VRD control , guarantees operator safety.
- Narrow cutting seam , clean cutting edge , anti-deformation high usage of metal.
- 2T/4T/spot welding mode.

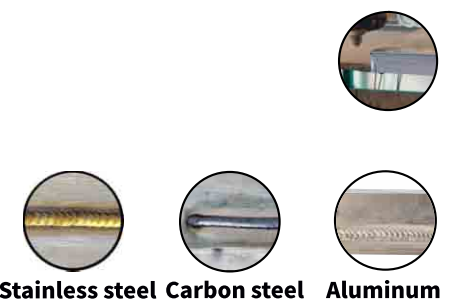


Multifunctional

Welding and cutting



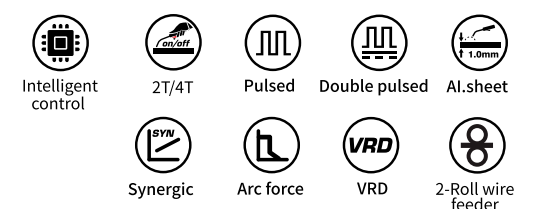
5KG
wire spool



Stainless steel Carbon steel Aluminum



Plasma cutter HF TIG MMA MIG/MAG Flux cored (gasless) wire compatible IGBT DUAL VOLTAGE 110/220V 1 Phase



Intelligent control 2T/4T Pulsed Double pulsed AI.sheet Synergic Arc force VRD 2-Roll wire feeder

Standard Accessories:

- 4m(L) PT31 cutting torch.
- 3m(L) WP-17 TIG torch.
- 3m(L) 15AK MIG torch.
- 3m(L) cable with 300A ground clamp.
- 3m(L) cable with 300A electrode holder.
- 2m(L) gas hose (hose hoop*2pcs).
- 3m(L) graphite hose.

Model	50/60Hz	Input power	I _{1max}	Plasma cutter	TIG	MIG/MAG	MMA	OCV	Duty Cycle (X%)			LxWxH (mm)	KG
										60%	100%		
CTMG-418P	1pH 110V±15%	5.0KW	45.8A	20-30A	20-140A	20-140A	20-125A	290V(CUT) 62V(MIG) 62V(TIG) 62V(MMA)	CUT	40A	30A	520*390*450mm	11.5/20.0kg
									TIG	180A	140A		
									MMA	160A	125A		
									MIG	180A	140A		

MIG-315T 320T PRO



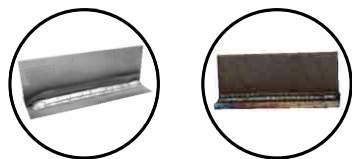
Features

- Full bridge IGBT converter guarantee the stable output power.
- Multifunction welder for industrial use: MIG/MAG, gasless flux cored wire welding and MMA.
- Full digital control system, welding parameters can be adjusted independently; Stable arc output, superior welding quality.
- High efficiency and duty cycle, and no noise from arc welding rectifier.
- Less spatter and high metal deposition rate; nice welding bead and less deformation.
- MMA function is designed to weld various electrodes like acid,alkaline, stainless steel, cast iron, etc with excellent performance.
- Ideal for use in outdoor and indoor conditions.
- Operation safety protection against over-voltage, low-voltage, over-current and over-heated.

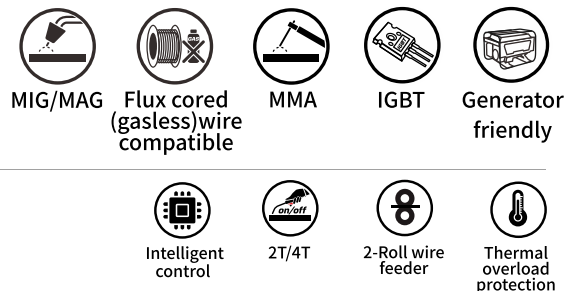


Built-in 2-roller wire feeder

Universal network compatibility



Stainless steel Carbon steel



Standard Accessories:

- 3m(L) 36KD MIG torch .
- 3m(L) cable with 500A ground clamp.
- 3m(L) cable with 400A electrode holder.
- 3m(L) gas hose(hose hoop*2pcs).
- Co2 pressure regulator with heater 36V(optional).

Model	 50/60Hz	Input power	I _{lmax}	 MIG/MAG	 MMA	OCV	Duty Cycle (X%)			 Wire dia.	 Thickness	 LxWxH (mm)	 KG
								80%	100%				
MIG-315T PRO	1pH/3pH AC150V-500V	15.7KW	29.0A	40-310A	20-280A	64V	MIG	310A	277A	0.8-1.2mm	2.0-16.0mm	1005*435*665mm	31.8/42kg
							MMA	280A	250A				
	1pH 220V±15%	13.5KW	61.5A	40-310A	20-280A	64V	MIG	310A	277A	0.8-1.2mm	2.0-16.0mm	1005*435*665mm	31.8/42kg
							MMA	280A	250A				
MIG-320T PRO	3pH 220V/440V	15.7KW	33.5A	40-320A	20-280A	64V	MIG	320A	286A	0.8-1.2mm	2.0-16.0mm	1005*435*665mm	32.8/43kg
							MMA	280A	250A				



MMA

Welding Process

Stick/MMA/ARC
(SMAW)

Welding Metal Type

Carbon steel
Stainless steel
Low alloy steel
Cast iron

Application

Electric power equipment, shipbuilding, pressure vessels, petrochemicals, steel structures, bridges, etc.

Selection Guides

User-friendly and cost effective.
Well suited for windy, outdoor conditions.
More convenient when welding on dirty or rusty metal.



ARC-120MINI



Features

- Small size, light weight, and high efficiency; easy to move, especially suitable for occasions of high mobility and working at heights.
- The advanced control technology is used to meet various welding applications and greatly improve welding performance.
- Operation safety protection against over-voltage, low-voltage, over-current and over-heated.
- You can just plug and then weld with a complete accessory set : MMA welding cable, earth cable, welding mask and steel brush.



Optional

Lightweight

Portable



Carbon steel



Stainless steel



MMA



IGBT



DUAL VOLTAGE
110/220V



Thermal
overload
protection



Compact
and portable

Standard Accessories:

- 1.2m(L) cable with ground clamp.
- 1.8m(L) cable with electrode holder.
- Welding mask/steel brush with hammer .(1pc)

Model	50/60Hz	Input power	I _{1max}	MMA	OCV	Duty Cycle (X%)			Rod max.	Thickness	LxWxH (mm)	KG
						35%	60%	100%				
ARC-120MINI	1pH 220V±15%	5.0KW	23.5A	30-120A	60V	120A	92A	71A	1.6-3.2mm	1.5-4.0mm	With toolbox 385*170*325mm Without toolbox 360*150*280mm	2.95/5.65kg
ARC-120MINI	1pH 110V±15%	5.0KW	33.5A	30-120A	60V	120A	92A	71A	1.6-3.2mm	1.5-4.0mm	With toolbox 385*170*325mm Without toolbox 360*150*280mm	2.95/5.65kg

ARC-140 / ARC-160 / ARC-200



Features

- Small size, light weight, and high efficiency; easy to move, especially suitable for occasions of high mobility and working at heights.
- The Advanced control technology is used to meet various welding applications and greatly improve welding performance.
- Arc force, anti-stick and hot start technology enable easy arc starting, arc stability and smooth welding.
- Operation safety protection against over-voltage.
- You can just plug and then weld with a complete accessory set : MMA welding cable, earth cable, welding mask and steel brush.



Dual voltage

High-power welder



Carbon steel



Stainless steel



MMA



IGBT



DUAL VOLTAGE
110/220V



Arc force



Thermal
overload
protection



Compact
and portable

Standard Accessories:

- 1.2m(L) cable with ground clamp.
- 1.8m(L) cable with electrode holder
- Welding mask/steel brush with hammer .(1pc)

Model	50/60Hz	Input power	I _{1max}	MMA	OCV	Duty Cycle (X%)			Rod max.	Thickness	LxWxH (mm)	KG
						35%	60%	100%				
ARC-140	1pH 110V±15%	5.8KW	43.6A	20-120A	56V	140A	107A	85A	1.6-3.2mm	15-4.0mm	465*270*330mm	3.8/4.6kg
	1pH 220V±15%		30.8A	20-140A								
ARC-160	1pH 110V±15%	6.8KW	52.8A	20-140A	56V	160A	122A	95A	1.6-4.0mm	1.5-6.0mm	465*270*330mm	4.8/5.6kg
	1pH 220V±15%		30.8A	20-160A								
ARC-200	1pH 110V±15%	8.2KW	54.6A	20-160A	56V	180A	140A	106A	1.6-5.0mm	1.5-12.0mm	465*270*330mm	5.2/6.0kg
	1pH 220V±15%		32.0A	20-180A								

ARC-160DP / ARC-200DP



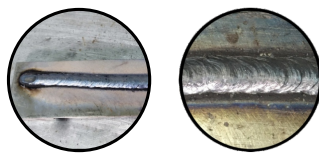
Features

- It has features MMA, pulsed MMA and lift TIG function.
- Pulsed MMA welding can stir the molten pool more evenly, avoid porosity, and make the welding firm, and deep penetration.
- High resolution LCD screen help adjust welding parameter.
- Long-time continuous welding of 5.0mm electrode.
- 62V open circuit voltage ensures smooth cellulose electrode(E6010/E6011) welding.
- MMA mode with adjustable VRD control, guarantees operator safety.
- External adjustable hot start and arc force.
- Smart cooling & overheating protection.



Pulse MMA

Excel with cellulose electrode welding



Carbon steel Stainless steel



MMA



Lift TIG



DUAL VOLTAGE
110/220V



Pulsed



IGBT



Hot start



Arc force



Synergic



VRD



OCV/62V



Cellulose electrode
E7018 E6010

Standard Accessories:

- 1.2m(L) cable with 300A ground clamp.
- 1.8m(L) cable with 200A electrode holder.
- Welding mask/steel brush with hammer .(1pc)

Model	50/60Hz	Input power	I ₁ max	MMA	OCV	Duty Cycle (X%)		Rod max.	Thickness	LxWxH (mm)	KG
						60%	100%				
ARC-160DP	1pH 110V±15%	4.3(110V)	38.6A(110V)	20-120A(110V)	62V	160A	124A	1.6-4.0mm	1.5-6.0mm	370*220*295mm	5.1kg
	1pH 220V±15%	6.0(220V)	27.5A(220V)	20-160A(220V)							
ARC-200DP	1pH 110V±15%	5.1(110V)	46.5A(110V)	20-140A(110V)	62V	200A	155A	1.6-5.0mm	1.5-12.0mm	465*225*320mm	6.3kg
	1pH 220V±15%	8.0(220V)	36.4A(220V)	20-200A(220V)							



ARC-200M

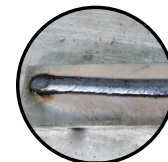
Features

- Small size, light weight, and high efficiency; easy to move, especially suitable for occasions of high mobility and working at heights.
- The advanced control technology is used to meet various welding applications and greatly improve welding performance.
- User-friendly and cost effective.
- Arc force, anti-stick and hot start technology enable easy arc starting, arc stability and smooth welding.
- Operation safety protection against over-voltage, low-voltage, over-current and over-heated.
- You can just plug and then weld with a complete accessory set : MMA welding cable, earth cable, welding mask and steel brush.

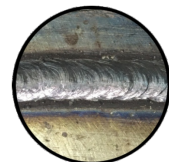


Dual voltage

Seamless 4.0mm welding



Carbon steel



Stainless steel



MMA



MOSFET



DUAL VOLTAGE
110/220V



Arc force



Thermal overload protection



Compact and portable

Standard Accessories:

- 1.2m(L) cable with 300A ground clamp.
- 1.8m(L) cable with 200A electrode holder
- Welding mask/steel brush with hammer .(1pc)

Model	50/60Hz	Input power	I ₁ max	MMA	OCV	Duty Cycle (X%)			Rod max.	Thickness	LxWxH (mm)	KG
						35%	60%	100%				
ARC-200M	1pH 110V±15%	8.2KW	54.6A	20-180A	60V	180A	140A	106A	1.6-5.0mm	1.5-12.0mm	465*270*330mm	6.5/8.2kg
	1pH 220V±15%											

ARC-1000 / ARC-1250



Features

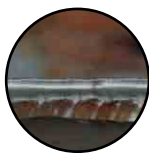
- Industrial grade dual IGBT module adopted.
- High duty cycle, 24 hours continuously work.
- High power factor saving more energy.
- The Advanced control technology is used to meet various welding applications and greatly improve welding performance.

- Clear and straightforward display of voltage & ampere.
- Easily with extend welding cable that more than 100 meters.
- Adjustable ignition current and hot start arc ignition adjustment can render to MMA welding make the function simpler and reliable in a higher degree.
- Overheat, overcurrent and overvoltage protection.



Dual IGBT module

For heavy industry use



ARC Gouging



Carbon steel



Stainless steel



MMA



Gouging



IGBT module



Generator friendly



Intelligent control



Hot start



Arc force



Thermal overload protection

Standard Accessories:

- 4M positive cable (optional)
- 2M negative cable (optional)
- 3M Carbon arc air gouging torch (optional)

Model	50/60Hz	Input power	MMA	OCV	Duty Cycle (X%)		Rod max.	Thickness	LxWxH (mm)	KG
					80%	100%				
ARC-1000	3pH 380V±15%	76.4KW	20A-1000A	72V	1000A	894A	1.6-12.0mm	>13.0mm	770*456*1109mm	83/100kg
ARC-1250	3pH 380V±15%	87.5KW	20A-1250A	80V	1250A	1118A	1.6-12.0mm	>13.0mm	770*456*1109mm	85/102kg

MZ-1000



Features

- Multifunction: Submerged arc welding, MMA carbon arc gouging.
- Designed with fully digital control, friendly for user.
- Advanced control technology, welders can preset welding parameters accurately.
- Both arc current and drive current can be adjusted continuously.

- With MMA function, it can weld using all types of electrodes.
- Widely used in shipbuilding, boiler, chemical vessel, bridge girder, lifting equipment and metallurgy industries.
- Suitable for carbon steel, stainless steel, heat-resisting steel and alloy metal welding.



Zero arc flare,
perfect protection

Ideal for thick steel &
large pipes welding



MZ



MMA



GOUGING



IGBT MODULE



Intelligent control



4-Roll wire feeder



Thermal overload protection

Standard Accessories:

- Welding tractor.
- 15m(L) control cable .
- 2*5M earth cable 50mm².
- 2*15M positive cable 50mm².

Model	50/60Hz	Input power	I ₁ max	MZ	MMA	OCV	Duty Cycle (X%)		Wire dia.	Thickness	LxWxH (mm)	KG
							80%	100%				
MZ-1000	3pH 380V±15%	61.0KW	160A	80-1000A	60V	MZ	1000A	894A	3.2-5.0mm	≥8mm	770*450*1850(power source)	105(power source)
						MMA	1000A	894A			1135*495*810(Tractor)	69(Tractor)
MZ-1000	3pH 220V±15%	67.5KW	103A	80-1000A	60V	MZ	1000A	894A	3.2-5.0mm	≥8mm	770*450*1850(power source)	105(power source)
						MMA	1000A	894A			1135*495*810(Tractor)	69(Tractor)

MMA-250 / MMA-300 PRO MMA-250L PRO / MMA-300L PRO

Features

- Adopt advanced full bridge IGBT inverter technology.
 - Heavy duty cycle for heavy industry use.
 - Digital display for welding current presetting and display.
 - The advanced control technology is used to meet various welding applications and greatly improve welding performance.
 - Auto protection against over-voltage, over-current and over-heated.
- The application of adaptive arc force enhances the function of long cable welding machine evidently be propitious to long distance welding.
 - Adjustable ignition current and hot start arc ignition adjustment can render to MMA welding make the function simpler and reliable in a higher degree.
 - High power factor saving more energy.



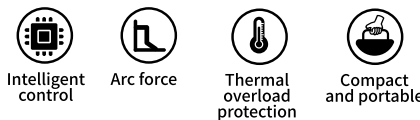
AC 1PH/3PH
150V-500V
WIDE VOLTAGE
RANGE

Small but powerful

Endure with 5.0mm electrode



Carbon steel Stainless steel



Standard Accessories:

- 3m(L) cable with 300A ground clamp.
- 3m(L) cable with 300A electrode holder.

Model	50/60Hz	Input power	I _{1max}	MMA	OCV	Duty Cycle (X%)		Rod max.	Thickness	LxWxH (mm)	KG
						80%	100%				
MMA-250	1pH 220V±15%	9.5KW	30.6A	20-250A	62V	250A	224A	1.6-4.0mm	1.5-12.0mm	530*315*430mm	8.5/9.7kg
MMA-300 PRO	3pH 220V±15%	12.1KW	39.0A	20-300A	62V	300A	268A	1.6-5.0mm	1.5-12.0mm	530*315*430mm	11/12.2kg
MMA-250L PRO	1pH/3pH AC150V-500V	12.8KW	58.0A	20-250A	62V	250A	224A	1.6-4.0mm	1.5-12.0mm	530*315*430mm	8.5/9.7kg
MMA-300L PRO	1pH/3pH AC150V-500V	12.2KW	40.0A	15-240A(1pH) 15-300A(3pH)	70V	240A 300A	215A 270A	1.6-5.0mm	1.5-12.0mm	530*315*430mm	10/12kg

MMA-400 PRO / MMA-500 PRO MMA-630 PRO

Features

- Adopt advanced full bridge IGBT inverter technology.
 - Heavy duty cycle for heavy industry use.
 - User-friendly and cost effective.
 - Digital display for welding current presetting and display.
 - The advanced control technology is used to meet various welding applications and greatly improve welding performance.
 - Auto protection against over-voltage, over-current and over-heated.
- The application of adaptive arc force enhances the function of long cable welding machine evidently be propitious to long distance welding.
 - Adjustable ignition current and hot start arc ignition adjustment can render to MMA welding make the function simpler and reliable in a higher degree.
 - High power factor saving more energy.



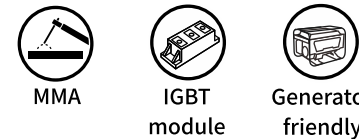
AC 3PH
220V-440V
WIDE VOLTAGE
RANGE

Dual Module

Stronger welds with
ample current



ARC Gouging Carbon steel Stainless steel



Standard Accessories:

- 3m(L) cable with ground clamp.
- 3m(L) cable with electrode holder.

Model	50/60Hz	Input power	I _{1max}	MMA	OCV	Duty Cycle (X%)		Rod max.	Thickness	LxWxH (mm)	KG
						80%	100%				
MMA-400 PRO	3pH 220V-440V±10%	21.5KW	43.0A	20-400A	68V	400A	356A	2.6-6.0mm	>13.0mm	647*367*542mm	16.5/18.0kg
MMA-500 PRO	3pH 220V-440V±10%	25.4KW	47.0A	20-500A	77V	500A	447A	2.6-6.0mm	>13.0mm	647*367*542mm	25.0/27.5kg
MMA-630 PRO	3pH 220V-440V±10%	35.0KW	54.5A	20-630A	77V	630A	563A	2.6-6.0mm	>13.0mm	647*367*542mm	27.5/31.0kg

ARC-160C 200C



Features

- Both MMA and lift TIG function.
- The Advanced control technology is used to meet various welding applications and greatly improve welding performance.
- Long-time continuous welding of 5.0mm electrode.
- 93V open circuit voltage ensures smooth cellulose electrode(E6010/E6011/E6013) welding.
- VRD function, guarantees operation safety.
- External adjustable hot start and arc force.
- Smart cooling&overheating protection.



Enduring 5.0mm power

Automatic current compensation



Carbon steel



Stainless steel



MMA



Lift TIG



DUAL VOLTAGE
110/220V



Intelligent
control



IGBT



Hot start



Arc force



VRD



Compact
and portable

Standard Accessories:

- 2.0m(L) cable with 300A ground clamp.
- 2.0m(L) cable with 200A electrode holder.
- Welding mask/steel brush with hammer .(1pc)

Model	50/60Hz	Input power	I _{1max}	MMA	OCV	Duty Cycle (X%)			Rod max.	Thickness	LxWxH (mm)	KG
						45%	60%	100%				
ARC-160C	1pH 110V±15%	5.3KW	33.8A	20-120A	93V	160A	138A	107A	1.6-4.0mm	1.5-6.0mm	430*260*285mm	5.1/7.3kg
	1pH 220V±15%		24.0A	20-160A								
ARC-200C	1pH 110V±15%	7.2KW	35.6A	20-125A	93V	/	200A	155A	1.6-5.0mm	1.5-12.0mm	430*260*285mm	5.8/8.0kg
	1pH 220V±15%		31.8A	20-200A								



Welding Process

TIG
(GTAW)

Welding Metal Type

Carbon steel
Stainless steel
Alloy steel
AlMg/AISI
Ni/Cu/Ti

Application

Electric power equipment, shipbuilding, pressure vessels, petrochemicals, steel structures, bridges, etc.

Selection Guides

Provide highest quality and most precise results.

Highly aesthetic weld beads.

Optional torch with amperage control & optional foot pedal switch.

Capable for different shapes welding, like butt joint, corner joint, T-joint and cruciform joint.



TIG-140I / TIG-160I

Features

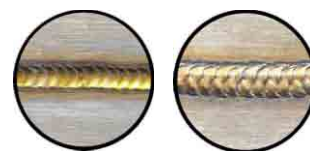
- Both TIG & MMA function.
- Small size, light weight, and high efficiency; easy to move, especially suitable for occasions of high mobility and working at heights.
- 10A min output current is ideal for thin iron and stainless steel welding.
- Adjustable post-flow function.

- Thanks to the high frequency & high voltage arc ignition circuit, it realizes excellent arc starting with a 99.8% success rate, specially suits for different types of spot welding.
- Suitable for welding stainless steel, alloy steel, carbon steel, and copper, etc.
- Over current and heating protection.



Lightweight and portable

Easy arc ignition



Stainless steel Stainless steel



Standard Accessories:

- 4m(L) WP17 TIG torch.
- 2m(L) cable with ground clamp.
- 2m(L) cable with electrode holder.
- 3m(L) gas hose(hose hoop*2pcs).

Model	 50/60Hz	Input power	 I1max	 TIG	 MMA	OCV	Duty Cycle (X%)				 Rod max. ϕ	 Thickness	 LxWxH (mm)	 KG
								35%	60%	100%				
TIG-140I	1pH 110V±15%	5.8KW	43.6A	10-140A(110V)	20-140A(110V)	60V	TIG	140A	107A	83A	1.0-2.5mm	1.0-4.0mm	452*212*325mm	7.6/10.9kg
	1pH 220V±15%		26.8A	10-140A(220V)	20-140A(220V)		MMA	140A	107A	83A				
TIG-160I	1pH 110V±15%	6.8KW	52.8A	10-160A(110V)	20-160A(110V)	60V	TIG	160A	122A	95A	1.0-3.2mm	1.0-4.5mm	452*212*325mm	8.3/11.7kg
	1pH 220V±15%		30.4A	10-160A(220V)	20-160A(220V)		MMA	160A	122A	95A				



TIG-200 AC/DC

Features

- Multi-function welding - AC TIG, AC pulsed TIG, DC TIG, DC pulsed TIG, MMA and auto welding.
- Digital control technology and one-knob intelligent control panel.
- Thanks to the high frequency & high voltage arc ignition circuit, it realizes excellent arc starting with a 99.8% success rate, specially suits for different types of spot welding.
- Adjustable clean width and clean scope.

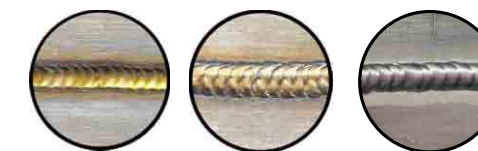
- Memory function for easy operation, 10 sets of parameters can be saved.
- Optional torch with amperage control & optional foot pedal switch.
- Intelligent over-voltage, low-voltage, over-current and over-heat protection, safe and reliable.
- Capable for different shapes welding, like butt joint, corner joint, T-joint, lap joint and cruciform joint.

Digital multi-function welder

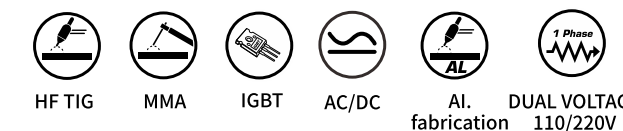
Easier way to weld fish-scale patterns



Capable for foot pedal remote control function. (Optional)



Stainless steel Stainless steel Aluminum



Standard Accessories:

- 4m(L) WP-26 TIG torch.
- 3m(L) cable with 300A ground clamp.
- 3m(L) cable with 200A electrode holder.
- 3m(L) gas hose(hose hoop*2pcs).
- 5m(L) remote control foot pedal(Optional)

Model	 50/60Hz	Input power	I ₁ max	 TIG	 MMA	OCV	Duty Cycle (X%)				 Rod max.	 Thickness	 LxWxH (mm)	 KG	
								40%	60%	100%					
TIG-200 AC/DC	1pH 110V±15%	8.4KW	46.3A	5-120A(110V)	20-120A(110V)	62V	110V	TIG	120A	100A	75A	1.0-3.2mm	1.0-6.0mm	750*285*483mm	8.3/11.7kg
	MMA		120A	100A	75A										
	1pH 220V±15%		38.1A	5-200A(220V)	20-180A(220V)		220V	TIG	200A	163A	126A				
								MMA	180A	147A	115A				

TIG-200M

Features

- It has both TIG & MMA function.
- Small size, light weight, and high efficiency; easy to move, especially suitable for occasions of high mobility and working at heights.
- 3pcs circuit structure design, robust and reliable performance.
- 10A min. output current is ideal for thin iron and stainless steel welding.

- Thanks to the high frequency & high voltage arc ignition circuit, it realizes excellent arc starting with a 99.8% success rate, specially suits for different types of spot welding.
- Suitable for welding stainless steel, alloy steel, carbon steel, and etc.
- Overheat, overcurrent and overvoltage protection.



Lightweight and portable

Easy arc ignition



Stainless steel



HF TIG



MMA



MOSFET



DUAL VOLTAGE
110/220V

Standard Accessories:

- 4m(L) WP-17 TIG torch.
- 2m(L) cable with 200A ground clamp.
- 2m(L) cable with 200A electrode holder.
- 3m(L) gas hose(hose hoop*2pcs).



Intelligent control



Thermal overload protection



Compact and portable

Model	 50/60Hz	Input power	I ₁ max	 TIG	 MMA	OCV	Duty Cycle (X%)				 Rod max.	 Thickness	 LxWxH (mm)	 KG
				35%	80%		100%							
TIG-200M	1pH 110V±15%	8.2KW	54.6A	10-160A(110V)	10-160A(110V)	60V	TIG	180A	137A	106A	1.0-2.5mm	1.0-4.0mm	452*212*325mm	7.6/10.9kg
	1pH 220V±15%		32.0A	10-180A(220V)	10-180A(220V)		MMA	160A	122A	106A				

TIG-200 PC

Features

- Multi-function welder: DC TIG , DC pluse TIG , cold TIG , MMA and clean function.
- Compact and portable, high efficiency and energy.
- With HF TIG arc starting, allows to strike the arc easily with high frequency and make it easy to establish an arc under a variety of conditions.
- 2T/4T function , adjustable pre-flow and post-flow.



- Clean function, to clean the rust and oil on the surface of the material, like carbon steel and stainless steel.
- Operation safety protection against over-voltage, low-voltage,over-current and over-heated.
- Digital control technology, accurate welding power control, cold TIG spot welding 0.4mm sheet no deformation.

Versatile machine with pulse welding

First choice for stainless steel welding



Stainless steel



Stainless steel



Clean Mode



HF TIG



COLD TIG



MMA



CLEAN



IGBT



DUAL VOLTAGE
110/220V

Standard Accessories:

- 4m(L) WP-17 TIG torch.
- 4m(L) clean gun.
- 2m(L) cable with 200A ground clamp.
- 2m(L) cable with 200A electrode holder.
- 3m(L) gas hose(hose hoop*2pcs).



Intelligent control



2T/4T



Pulsed



Up slope



Down slope



Memory



Thermal overload protection

Model	 50/60Hz	Input power	I _{max}	 TIG	 MMA	OCV	Duty Cycle (X%)				 Rod max.	 Thickness	 LxWxH (mm)	 KG	
				40%	60%		100%								
TIG-200 PC	1pH 110V±15%	6.0KW	31.0A	10-130A(110V)	20-100A(110V)	65V	110V	TIG	130A	106A	82A	1.0-3.2mm	1.0-6.0mm	480*240*408mm	7.5/10.5kg
			MMA	100A	82A		63A								
	1pH 220V±15%		27.0A	10-190A(220V)	20-160A(220V)		220V	TIG	190A	155A	120A				
								MMA	160A	130A	102A				

TIG-315PW AC/DC



Features

- Multi-function welding - AC TIG, AC pulsed TIG, DC TIG, DC pulsed TIG, MMA and auto welding.
- Digital control technology and one-knob intelligent control panel.
- Thanks to the high frequency & high voltage arc ignition circuit, it realizes excellent arc starting with a 99.9% success rate, specially suits for different types of spot welding.
- Intelligent over-voltage, low-voltage, over-current and over-heat protection, safe and reliable.
- Adjustable clean width and clean scope.

- Pulsed welding with adjustable pulse frequency, achieving high quality welding of thin metal sheet, dissimilar metal, materials of different thickness, and even the requirements of double-sided forming welds.
- Optional torch with amperage control & optional foot pedal switch.

Preferred choice for
industrial welding

Aluminum welding expert



Capable for foot pedal
remote control function.
(Optional)



Stainless steel



Aluminum



Aluminum



HF TIG



MMA



IGBT



AC/DC



Al.
fabrication



Intelligent
control



2T/4T



Pulsed



Up slope



Down slope



Remote



Memory



Thermal
overload
protection

Standard Accessories:

- 5m(L) WP-18 TIG torch.
- 2m(L) cable with 300A ground clamp.
- 2m(L) cable with 300A electrode holder.
- 3m(L) gas hose (hose hoop*2pcs).
- 5m(L) remote control foot pedal(Optional).

Model	50/60Hz	Input power	I _{1max}	TIG	MMA	OCV	Duty Cycle (X%)			Rod max.	Thickness	LxWxH (mm)	KG
							60%	80%	100%				
TIG-315PW AC/DC	3pH 380V±15%	12.8KW	30.0A	10-315A	20-280A	65V	TIG	315A	273A	244A	1.0-5.0mm	1.0-10mm	\
							MMA	280A	242A	217A			

TIG-300PL AC/DC TIG-400PW AC/DC TIG-500PW AC/DC TIG-630PW AC/DC



Features

- Multi-function welding - AC TIG, AC pulsed TIG, DC TIG, DC pulsed TIG and MMA .
- Digital control technology and one-knob intelligent control panel.
- Thanks to the high frequency & high voltage arc ignition circuit, it realizes excellent arc starting with a 99.9% success rate, specially suits for different types of spot welding.

- Pulsed welding with adjustable pulse frequency, achieving high quality welding of thin metal sheet, dissimilar metal, materials of different thickness, and even the requirements of double-sided forming welds.
- Adjustable clean width and clean scope.
- Intelligent over-voltage, low-voltage, over-current and over-heat protection, safe and reliable.

Preferred choice for
industrial welding

Aluminum welding expert

AC 3PH
220V
SPECIAL VOLTAGE
RANGE



Stainless steel



Aluminum



Aluminum



HF TIG



MMA



AC/DC



Al.
fabrication



IGBT
module



Intelligent
control



2T/4T



Pulsed



Up slope



Down slope



Remote

Standard Accessories:

- 4m(L) WP-18/WP-12 TIG torch.
- 2.4m(L) cable with ground clamp.
- 2.4m(L) cable with electrode holder.
- 3m(L) gas hose (hose hoop*2pcs).
- 5m(L) remote control foot pedal(Optional).

Model	50/60Hz	Input power	I _{1max}	TIG	MMA	OCV	Duty Cycle (X%)			Rod max.	Thickness	LxWxH (mm)	KG
							60%	80%	100%				
TIG-300PL AC/DC	3pH 220V±15%	12.8KW	24.7A	15-300A	15-240A	68V	TIG	300A	232A	1.0-5.0mm	1.0-10mm	720*400*670mm	40.1/44kg
							MMA	240A	186A				
TIG-400PW AC/DC	3pH 380V±15%	12.5KW	27.7A	10-400A	20-400A	70V	TIG	400A	310A	1.0-5.0mm	1.0-12mm	1210*660*1320mm	86/130kg
							MMA	400A	310A				
TIG-500PW AC/DC	3pH 380V±15%	18.0KW	36.0A	10-500A	20-500A	70V	TIG	500A	387A	1.0-5.0mm	1.0-16mm	1210*660*1320mm	96/140kg
							MMA	500A	387A				
TIG-630PW AC/DC	3pH 380V±15%	25.8KW	51.0A	10-630A	20-630A	70V	TIG	630A	488A	1.0-6.0mm	1.0-18mm	1210*660*1320mm	98/142kg
							MMA	630A	488A				



Plasma cutter

Cutting Process

Plasma arc cutting
(CUT)

Cutting Metal Type

Carbon steel
Stainless steel
Alloy steel
Ni/Cu/Ti

Application

Electric power equipment, shipbuilding, pressure vessels, petrochemicals, steel structures, bridges, etc.



Selection Guides

Suitable for any electrically conductive metals.
Small and precise cut.
Small heat-affected zone which helps prevent warping or paint damage.
Able to be connected with CNC equipment to achieve automatic cutting function.

CUT-40F

Features

- IGBT inverter for high efficiency, simple operation, smooth precise cutting.
- Small size, light weight, and long cutting time.
- Optional HF and NO-HF to fulfill market requirements.
- Narrow cutting seam, clean cutting edge, anti-deformation.
- Overheat, overcurrent and overvoltage protection.

- Accurate cutting current preset ensures good cutting effect, energy saving performance and convenient operations, suitable for cutting workpiece of different thickness.
- Adjustable pre-flow checking and post-flow cooling.



Lightweight and portable

Fast cutting

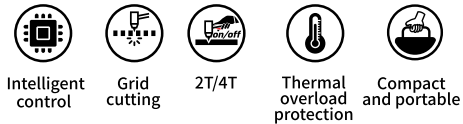


15mm
Max cutting
CUT-40F



Standard Accessories:

- 4m(L) cutting torch.
- 3m(L) cable with ground clamp.
- 3m(L) gas hose(hose hoop*2pcs).
- Valve/regulators(1pc).



Model	50/60Hz	Input power	I ₁ max	Plasma cutter	OCV	Duty Cycle (X%)			Max cutting	LxWxH (mm)	KG
						40%	60%	100%			
CUT-40F	1pH 220V±15%	5.2KW	23.0A	20-40A	243V	40%	60%	100%	15mm	480*240*408mm	6.2/10kg
						40A	33A	25A			

CUT-40H/CUT-60H

Features

- IGBT inverter for high efficiency, simple operation, smooth precise cutting.
- Small size, light weight, and long cutting time; easy to move, especially suitable for occasions of high mobility and working at heights.
- Accurate cutting current preset ensures good cutting effect, energy saving performance and convenient operations, suitable for cutting workpiece of different thickness.

- Adjustable Pre-flow checking and post-flow cooling.
- Narrow cutting seam, clean cutting edge, anti-deformation.
- Overheat, overcurrent and overvoltage protection.
- Anti-fluctuation of power supply.



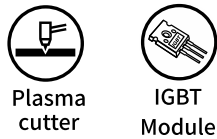
Lightweight and portable

Fast cutting



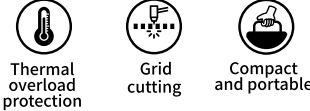
12mm
Max cutting
CUT-40H

20mm
Max cutting
CUT-60H



Standard Accessories:

- 4m(L) cutting torch.
- 1.5m(L) cable with electrode holder.
- 2m(L) gas hose (hose hoop*2pcs).
- Valve/regulators (1pc)



Model	50/60Hz	Input power	I ₁ max	Plasma cutter	OCV	Duty Cycle (X%)			Max cutting	LxWxH (mm)	KG
						35%	60%	100%			
CUT-40H	1pH 110V/220V±15%	6.5KW	29A	20-40A	240V	40A	30A	24A	12mm	455*270*345mm	5.0/7.1kg
CUT-40H	1pH 220V±15%	4.5KW	23A	10-40A	231V	40A	30A	24A	12mm	455*270*345mm	4.5/6.6kg
CUT-60H	3pH 380V±15%	8.9KW	24A	20-60A	340V	/	60A	46A	20mm	580*315*415mm	9.5/12.7kg
CUT-60H	1pH 220V±15%	10.5KW	47.7A	20-60A	270V	60A	46A	35A	20mm	580*315*415mm	10.6/14.7kg

CUT-40D AIR



Features

- Built-in reliable high-power air compressor, no additional gas source is required, stable gas output after long-term use.
- 2-3 times faster than the oxyacetylene cutting speed with significant benefits of less deformation, low costs and high efficiency.
- Quick switch between built-in and external air pump.
- HF is available for easy arc ignition.

- Pilot arc starting increases cutting capability and speed.
- Overheat, overcurrent and overvoltage protection.
- Simple operation, smooth precise cutting.
- Narrow cutting seam, clean cutting edge, anti-deformation.



Portable

Build-in air compressor



16mm
Max cutting
CUT-40DAIR



Plasma
cutter



BUILT-IN AIR
COMPRESSOR



DUAL VOLTAGE
110V/220V



Intelligent
control



2T/4T



Grid
cutting



Thermal
overload
protection



Compact
and portable

Standard Accessories:

- 4m(L) Pt31 cutting torch.
- 2m(L) cable with 200A ground clamp.
- 2m(L) gas hose(hose hoop*2pcs).

Model	50/60Hz	Input power	I ₁ max	Plasma cutter	OCV	Duty Cycle (X%)		Max cutting	LxWxH (mm)	KG
						60%	100%			
CUT-40D AIR	1pH110V±15%	5.8KW	38.0A	20-32A(110V)	265V	40A	31A	16mm	530*325*400mm	16.7/22.8kg
	1pH220V±15%		23.0A	20-40A(220V)						



CUT-60AIR

Features

- Built-in air compressor.
- Highly convenient, operate it anywhere.
- More precise cut, thinner kerf, less slag to clean up.
- Stand-off torch cutting.

- Cut thickness, 15mm quality cutting, max 25mm cutting.
- External air compressor can be connected.
- MMA function, max 170A.



Built-in air compressor

Fast cutting



20mm
Max cutting
CUT-60AIR



Plasma
cutter



MMA



BUILT-IN AIR
COMPRESSOR



Thermal
overload
protection



Grid
cutting



Compact
and portable

Standard Accessories:

- 5m(L) P80 cutting torch
- 2m(L) cable with 200A ground clamp
- 2m(L) cable with 300A electrode holder
- 2m(L) gas hose (hose hoop*2pcs)
- Valve/regulators(1pc)

Model	50/60Hz	Input power	I ₁ max	Plasma cutter	OCV	Duty Cycle (X%)		Max cutting	LxWxH (mm)	KG
						CUT	MMA			
CUT-60AIR	1pH 220V±15%	8.6KW	27.8A	20-60A	254V	60A	165A	20mm	580*335*535mm	28/34kg
						46A	128A			

CUT-60PRO

Features

- IGBT inverter for high efficiency, simple operation, smooth precise cutting.
- Small size, light weight, and long cutting time; easy to move, especially suitable for occasions of high mobility and working at heights.
- Overheat, overcurrent and overvoltage protection.
- Anti-fluctuation of power supply.



- Accurate cutting current preset ensures good cutting effect, energy saving performance and convenient operations, suitable for cutting workpiece of different thickness.
- Adjustable pre-flow checking and post-flow cooling.
- Narrow cutting seam, clean cutting edge, anti-deformation.



WIDE VOLTAGE
RANGE

Universal network compatibility

Cutting shapes at will



20mm
Max cutting
CUT-60PRD



Plasma
cutter



MMA



IGBT



Generator
friendly



Grid
cutting



Thermal
overload
protection



Compact
and portable

Standard Accessories:

- 5m(L) cutting torch.
- 3m(L) cable with ground clamp.
- 3m(L) cable with electrode holder.
- 3m(L) gas hose(hose hoop*2pcs).
- Valve/regulators (1pc).

Model	 50/60Hz	Input power	I _{1max}	 Plasma cutter	OCV	Duty Cycle (X%)			 Max cutting	 LxWxH (mm)	 KG
							80%	100%			
CUT-60PRO	1pH/3pH AC150V-500V	12.2KW	39.3A	20-60A	280V	CUT	60A	54A	20mm	530*315*430mm	13.0/15.0kg
						MMA	230A	206A			



CUT-80PRO/CUT-100PRO CUT-120PRO/CUT-160PRO

Features

- Thanks to the advanced inverter technology, the machine is robust with powerful cutting capacity.
- Able to be connected with CNC equipment to achieve automatic cutting; the connector is optional.
- Intelligent visual operation instruction make your work easy.
- 2T/4T self-locking function.
- Heavy duty cycle for industrial use.



SPECIAL VOLTAGE
RANGE

Ease of cut

Cutting powerhouse



30mm
Max cutting
CUT-80PRO

35mm
Max cutting
CUT-100PRO

40mm
Max cutting
CUT-120PRO

55mm
Max cutting
CUT-160PRO



Plasma
cutter



IGBT
module



CNC on-site &
mobile cutting
applications



3PH-220V



Intelligent
control



2T/4T



Grid
cutting



Thermal
overload
protection



MMA
(Optional)

Standard Accessories:

- 5m(L) /8m(L) cutting torch.
- 3m(L) cable with 200A ground clamp.
- 3m(L) gas hose(hose hoop*2pcs).
- Valve/regulators(1pc)

Model	50/60Hz	Input power	I _{1max}	Plasma cutter	OCV	Duty Cycle (X%)		Max cutting	Quality cutting	LxWxH (mm)	KG
						60%	100%				
						CUT	60A	54A			
CUT-80PRO	3pH 220V±15%	14.0KW	36.5A	30-80A	280V	80A	62A	30mm	20mm	575*333*490mm	16.5/19kg
CUT-100PRO	3pH 220V±15%	18.4KW	48.4A	30-100A	320V	100A	77A	35mm	25mm	615*380*635mm	28/31kg
CUT-120PRO	3pH 220V±15%	23.4KW	61.3A	30-120A	320V	120A	93A	40mm	30mm	615*380*635mm	29/32kg
CUT-160PRO	3pH 220V±15%	29.3KW	76.8A	30-160A	320V	160A	124A	55mm	40mm	755*405*850mm	69/74kg

CUT-80L AIR PRO/CUT-100L AIR PRO CUT-120L AIR PRO/CUT-160L AIR PRO



Features

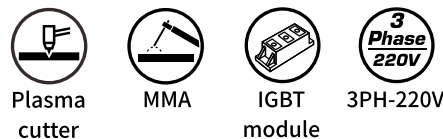
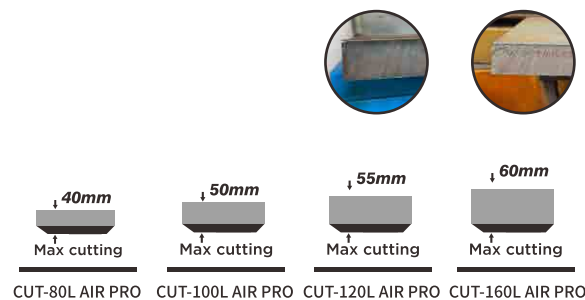
- Multi handler for industrial use: CUT & MMA.
- Quick switch between built-in and external air pump.
- Thanks to the advanced inverter technology, the machine is robust with powerful cutting capacity.
- Intelligent visual operation instruction make your work easy.
- 2T/4T self-locking function.
- Powerful cutting capacity, narrow cutting seam and clean cutting edge.
- Pilot arc starting increases cutting capability and cutting speed, improving service life of torch kit.
- Heavy duty cycle for industrial use.



AC 3PH
220V
SPECIAL VOLTAGE
RANGE

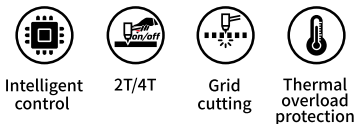
Built-in air compressor

Cutting powerhouse



Standard Accessories:

- 5m(L) /8m(L) cutting torch.
- 3m(L) cable with ground clamp.
- 3m(L) cable with electrode holder.
- 3m(L) gas hose(hose hoop*2pcs).
- Valve/regulators(1pc).



Model	50/60Hz	Input power	I ₁ max	Plasma cutter	OCV	Duty Cycle (X%)		Max cutting	Quality cutting	LxWxH (mm)	KG
						60%	100%				
CUT-80L AIR PRO	3pH 220V±15%	14.0KW	52.0A	20-80A	310V	80A	62A	40mm	20mm	640*380*610mm	33/35kg
CUT-100L AIR PRO	3pH 220V±15%	18.4KW	69.0A	20-100A	310V	100A	77A	50mm	25mm	640*380*610mm	49.7/59kg
CUT-120L AIR PRO	3pH 220V±15%	23.4KW	88.0A	20-120A	310V	120A	93A	55mm	30mm	640*380*610mm	50.2/59.5kg
CUT-160L AIR PRO	3pH 220V±15%	29.3KW	132A	20-130A	310V	130A	100A	60mm	35mm	780*400*800mm	72/88kg



CTMG-4200

Features

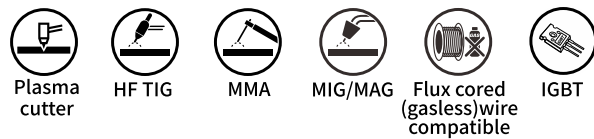
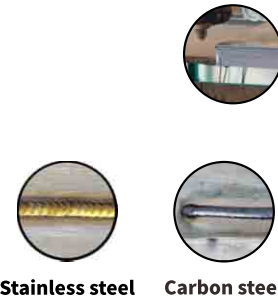
- Multi-process welder for MMA, HF-TIG, MIG/MAG, gasless flux cored wire welding and CUT.
- Full digital control system, welding parameters can be adjusted independently; Stable arc output, superior welding quality.
- With HF TIG arc starting, allows to strike the arc easily with high frequency and make it easy to establish an arc under a variety of conditions.
- SPL MIG and SYN MIG can meet the needs of different users and more simple to operate.
- VRD function, guarantees operation safety.
- Max. 15mm cutting thickness.
- Capable of cutting and welding various metals.
- Operation safety protection against over-voltage low-voltage, over-current and over-heated.



5KG
wire spool

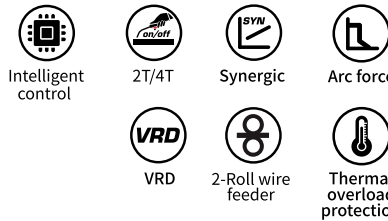
Versatile welding machine

Welding and cutting machine combo



Standard Accessories:

- 4m(L) PT31 cutting torch.
- 4m(L) WP-17 TIG torch.
- 3m(L) 15AK MIG torch.
- 3m(L) cable with 200A ground clamp.
- 3m(L) cable with 300A electrode holder.
- 3m(L) gas hose(hose hoop*2pcs).
- Valve/regulators.



Model	50/60Hz	Input power	I ₁ max	Plasma cutter	TIG	MIG/MAG	MMA	OCV	Duty Cycle (X%)				LxWxH (mm)	KG
									CUT	40%	60%	100%		
CTMG-4200	1pH 220V±15%	8.0KW	36.0A	10-40A	20-200A	60-200A	20-200A	244V(CUT)	CUT	40A	33A	25A	720*255*383mm	18.6/20.8kg
								66V(MIG)	TIG	200A	160A	126A		
								66V(TIG)	MMA	200A	160A	126A		
								66V(MMA)	MMA	200A	160A	126A		