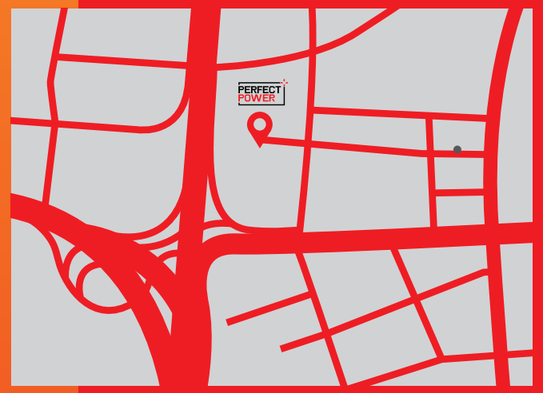
MIG/MAG | MMA | TIG | Plasma cutter

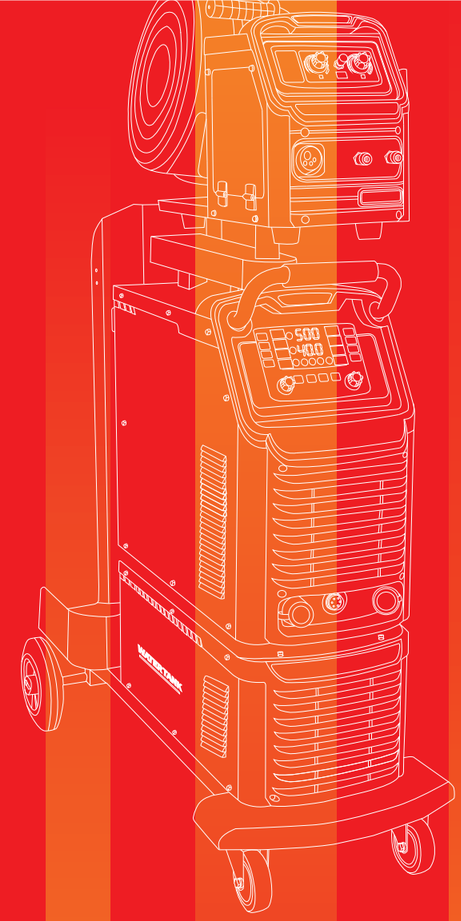


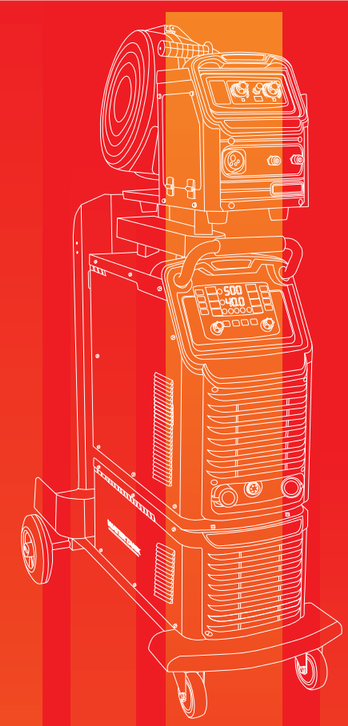
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PERFECT POWER
MAKES PERFECT WELDERS

PERFECT POWER

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ABOUT PERFECT POWER

Perfect Power is a solution provider of welding and cutting machines, supply quality and user-friendly welding prouducts 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

Maintenance and repair

Vehicle maintenance

DIY/Home hobby

Doors and windows

Yacht

Building and construction

Farms & ranches

Steel fabrication and machining

Petroleum pipeline

Shipbuilding

CI Cast Iron

S Steel/Carbon Steel

SS Stainless Steel

CB Copper/Brass

AL Aluminum

Ni Nickel

Mg Magnesium

Ti Titanium

EC All Electrically Conductive

PERFECT POWER

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

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.



MIG-160I

DIY

Features

- Robust and durable.
- Speed, quality and economy for fresh hand.
- Lightweight, compact and super portable.
- **Intelligent synergic control:** make your work easy.



5KG
wire spool

Portable

Multi-functional



Stainless steel



Carbon steel

MIG/MAG

MMA

LIFT TIG

Flux cored (gasless)wire compatible

Intelligent control

Synergic

IGBT

Compact and portable

Thermal overload protection

2-Roll wire feeder

Standard Accessories:

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

Model	50/60Hz	Input power	I1max	MIG/MAG	MMA	OCV	DutyCycle (X%)			Wiredia.	LxWxH	KG
								25%	100%			
MIG-160I	1PH 220V±15%	6.0KW	27.4A	20-160A	20-160A	60V	MIG	160A	80A	0.8-1.0mm	510*260*440mm	8.2/9.4kg
							MMA	160A	80A			

S SS Ni CI AL CB Mg Ti EC

MIG-200PL

DIY INDUSTRIAL USE

Features

- MIG/MAG, Single Pulse MIG,Flux cored wire welding MMA and lift TIG.
- Intelligent Synergic control make your work easy.
- Rich selection of aluminum welding process parameters such as adjustable pre flow / post flow time.
- Capable of both thin and moderately thick metal material welding.
- Spatter-free welding, especially suitable for aluminum welding.

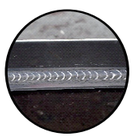




5KG
wire spool

Portable

Multi-functional



Aluminum



Stainlesssteel



Carbonsteel

MIG/MAG

MMA

LIFT TIG

Flux cored (gasless)wire compatible

Intelligent control

Synergic

IGBT

Compact and portable

Thermal overload protection

Hot start

Arc force

VRD

VRD

2T/4T

Pulsed

Standard Accessories:

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

Model	50/60Hz	Input power	I1max	MIG/MAG	MMA	OCV	DutyCycle (X%)			Wiredia.	LxWxH	KG
								25%	100%			
MIG-200PL	1PH 220V±15%	8.2KW	37.4A	20-200A	20-200A	60V	MIG	200A	100A	0.8-1.2mm	510*260*440mm	8.2/9.4kg
							MMA	200A	100A			

S SS Ni CI AL CB Mg Ti EC

MIG-200PLT

DIY INDUSTRIAL USE

Features

- MIG/MAG, Single Pulse MIG,Flux cored wire welding MMA and lift TIG.
- Intelligent Synergic control make your work easy.
- Rich selection of aluminum welding process parameters such as adjustable pre flow / post flow time.
- Capable of both thin and moderately thick metal material welding.
- Spatter-free welding, especially suitable for aluminum welding.





Portable

Multi-functional



Aluminum Stainless steel Carbon steel

15KG wire spool

MIG/MAG MMA LIFT TIG Flux cored (gasless)wire compatible

Intelligent control Synergic IGBT Compact and portable Thermal overload protection

Hot start Arc force VRD 2T/4T Pulsed

Standard Accessories:

- 3m(L) 24KD MIG torch .
- 3m(L) cable with 200A ground clamp .
- 3m(L) cable with 200A electrode holder.
- 3m(L) gas hose (hose hoop*2pcs).

Model	50/60Hz	Input power	I1max	MIG/MAG	MMA	OCV	DutyCycle (X%)			Wiredia.	LxWxH	KG
								40%	100%			
MIG-200PLT	1PH 220V±15%	8.2KW	37.4A	20-200A	20-200A	56V	MIG	200A	126A	0.8-1.2mm	645*315*530mm	10.5/13.5kg
							MMA	200A	126A			

S SS Ni CI AL CB Mg Ti EC

MIG-200PI/200PT

DIY INDUSTRIAL USE

Features

- MIG/MAG, Double Pulse MIG,Flux cored wire welding MMA and lift TIG.
- Intelligent Synergic control make your work easy.
- Rich selection of aluminum welding process parameters such as adjustable pre flow time post flow time/pulse frequency.
- Capable of both thin and moderately thick metal material welding.
- Spatter-free welding, especially suitable for aluminum welding.
- High speed current capability achieves stable arc and higher efficiency.



Full Digital Display

Multi-functional



Aluminum Stainlesssteel Carbonsteel

15KG wire spool MIG-200PT

5KG wire spool MIG-200PI

MIG/MAG MMA LIFT TIG Flux cored (gasless)wire compatible

Intelligent control Synergic IGBT Thermal overload protection Hot start

4-Roll wire feeder Arc force VRD 2T/4T Pulsed Double pulsed

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	I1max	MIG/MAG	MMA	OCV	DutyCycle (X%)			Wiredia.	LxWxH	KG
								X%	100%			
MIG-200PI	1PH 220V±15%	8.2KW	37.4A	20-200A	20-200A	65V	25% MIG	200A	100A	0.8-1.2mm	590*275*450mm	12.3/16.5kg
							25% MMA	200A	100A			
MIG-200PT	1PH 220V±15%	8.2KW	37.4A	20-200A	20-200A	65V	40% MIG	200A	126A	0.8-1.2mm	590*275*450mm	12.3/16.5kg
							40% MMA	200A	126A			

S SS Ni CI AL CB Mg Ti EC

MIG-250TD/270TD/270TDS

INDUSTRIAL USE

Features

- Cost effective: Speed, quality and economy for fresh hand .
- Equipped with a cylinder rack: Easy and professional for the user.
- Large and clear digital display: Presetting of voltage and current are convenient for operation.
- 2T/4T: Self-locking function make your work easy.
- Stable welding current: Excellent arc stability reduces spatter and the need for post-weld grinding.





15KG wire spool

Low Spatter

Integrated Dual Drive



Carbon steel



Carbon steel

MIG/MAG

MMA

Flux cored (gasless)wire compatible

Intelligent control

IGBT

Thermal overload protection

4-Roll wire feeder

2T/4T

Standard Accessories:

- 3m(L) 24KD MIG torch.
- 3m(L) cable with 300A ground clamp.
- 3m(L) cable with 300A electrode holder.
- 3m(L) gas hose (hose hoop*2pcs).
- CO2 pressure regulator with heater 36V(optional).

Model	50/60Hz	Input power	I1max	MIG/MAG	MMA	OCV	DutyCycle (X%)			Wiredia.	Thickness	LxWxH	KG
								60%	100%				
MIG-250TD	1PH 220V±15%	11.3KW	51.6A	50-250A	30-230A	52V	MIG	250A	195A	0.8-1.2mm	1.0-10.0mm	740*375*750mm	37.5/45.5kg
							MMA	230A	180A				
MIG-270TD	3PH 380V±15%	9.4KW	14.3A	50-270A	30-250A	52V	MIG	270A	210A	0.8-1.2mm	1.0-12.0mm	740*375*750mm	39.0/47.0kg
							MMA	250A	195A				
MIG-270TDS	1PH 220/380V ±15%	9.4KW	14.3A	50-270A	30-250A	52V	MIG	270A	210A	0.8-1.2mm	1.0-12.0mm	740*375*750mm	40.0/48.0kg
							MMA	250A	195A				

S SS Ni CI AL CB Mg Ti EC

MIG-270IS/350I/500I

INDUSTRIAL USE

Features

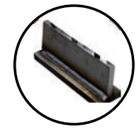
- 20kg wire spool capability: Pofessional for industrial application.
- 2T/4T: Self-locking function make your work easy.
- Generator friendly: Adopt soft switch technology to allow input voltage fluctuation.





High-Speed Spot Welding

Heavy Industry



Stainless steel



Carbon steel

15KG wire spool

IGBT

IGBT module

MIG/MAG

MMA

Flux cored (gasless)wire compatible

Intelligent control

4-Roll wire feeder

2T/4T

Thermal overload protection

Standard Accessories:

- 3m(L) 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	I1max	MIG/MAG	MMA	OCV	DutyCycle (X%)			Wiredia.	Thickness	LxWxH	KG
								60%	100%				
MIG-270IS	1PH 220V/380V ±15%	9.4KW	14.3A	50-270A(380V) 50-230A(220V)	30-230A(380V) 30-210A(220V)	55V	MIG	270A	209A	0.8-1.2mm	1.0-12.0mm	595*315*530mm(welder) 556*275*392mm(wire feeder)	18.0/20.0kg (welder) 27.0/29.0kg (wire feeder)
							MMA	230A	178A				
MIG-350I	3PH 380V±15%	13.9KW	21.2A	60-350A	40-350A	67V	MIG	350A	270A	0.8-1.6mm	2.0-30.0mm	710*385*680mm(welder) 565*275*392mm(wire feeder)	16.0/18.0kg (welder) 27.0/29.0kg (wire feeder)
							MMA	350A	270A				
MIG-500I	3PH 380V±15%	24.7KW	37.5A	60-500A	40-500A	70V	MIG	500A	387A	0.8-1.6mm	2.0-50.0mm	740*405*710mm(welder) 556*275*392mm(wire feeder)	17/19.0kg (welder) 36.0/38.0kg (wire feeder)
							MMA	500A	387A				

S SS Ni CI AL CB Mg Ti EC

MIG-250TL/270TL/300TL

INDUSTRIAL USE

Features

- Cost effective: Speed, quality and economy for fresh hand .
- Equipped with a cylinder rack: Easy and professional for the user.
- Large and clear digital display: Presetting of voltage and current are convenient for operation.
- 2T/4T: Self-locking function make your work easy.
- Stable welding current: Excellent arc stability reduces spatter and the need for post-weld grinding.



15KG wire spool

Low Spatter

Integrated Dual Drive



Carbon steel

Carbon steel

MIG/MAG MMA LIFT TIG Flux cored (gasless)wire compatible

Intelligent control | Synergic | IGBT | Thermal overload protection | 4-Roll wire feeder

Pulsed | Hot start | Arc force | VRD | 2T/4T

Standard Accessories:

- 3m(L) 24KD MIG torch.
- 3m(L) cable with 300A ground clamp.
- 3m(L) cable with 300A electrode holder.
- 3m(L) gas hose (hose hoop*2pcs).
- CO2 pressure regulator with heater 36V(optional).

Model	50/60Hz	Input power	I1max	MIG/MAG	MMA	OCV	DutyCycle (X%)		60%	100%	Wiredia.	LxWxH	KG
MIG-250TL	1PH 220V±15%	11.3KW	51.6A	20-250A	20-230A	63V	MIG	250A	195A	0.8-1.2mm	740*375*750mm	35.0/40.0kg
							MMA	230A	180A			
MIG-270TL	3PH 380V±15%	9.4KW	14.3A	20-270A	20-250A	63V	MIG	270A	210A	0.8-1.2mm	740*375*750mm	36.0/41.0kg
							MMA	250A	195A			
MIG-300TL	3PH 380V±15%	11.0KW	16.7A	20-300A	20-270A	63V	MIG	300A	232A	0.8-1.2mm	740*375*750mm	37.0/42.0kg
							MMA	270A	209A			

S SS Ni CI AL CB Mg Ti EC

MIG-360TL/500TL

INDUSTRIAL USE

Features

- Cost effective: Speed, quality and economy for fresh hand .
- Equipped with a cylinder rack: Easy and professional for the user.
- 2T/4T: Self-locking function make your work easy.
- Stable welding current: Excellent arc stability reduces spatter and the need for post-weld grinding.
- Large and clear digital display: Presetting of voltage and current are convenient for operation.

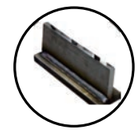


15KG wire spool

Water-cooled (Optional)

Low Spatter

Integrated Dual Drive



Stainless steel



Carbon steel

MIG/MAG MMA Flux cored (gasless)wire compatible LIFT TIG

Intelligent control | Synergic | IGBT | Thermal overload protection | 4-Roll wire feeder

Pulsed | Hot start | Arc force | VRD | 2T/4T

Standard Accessories:

- 3m(L) Water cooling MIG torch (optional).
- 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	I1max	MIG/MAG	MMA	OCV	DutyCycle (X%)		60%	100%	Wiredia.	LxWxH	KG
MIG-360TL	3PH 380V±15%	14.6KW	22.1A	20-360A	20-360A	68V	MIG	360A	279A	0.8-1.2mm	1050*460*1450mm	102/120kg
							MMA	360A	279A			
MIG-500TL	3PH 380V±15%	24.7KW	37.5A	20-500A	20-500A	68V	MIG	500A	387A	0.8-1.6mm	1140*630*1650mm	119/137kg
							MMA	500A	387A			

S SS Ni CI AL CB Mg Ti EC

MIG-350IT/500IT

INDUSTRIAL USE

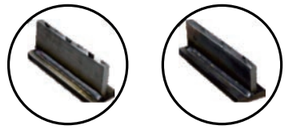
Features

- **20kg wire spool capability:** Pofessional for industrial application.
- **2T/4T:** Self-locking function make your work easy.
- **Generator friendly:** Adopt soft switch technology to allow input voltage fluctuation.



High-Speed Spot Welding

Heavy Industry



Stainless steel Carbon steel

MIG/MAG MMA LIFT TIG Flux cored (gasless)wire compatible

4-Roll wire feeder | Intelligent control | 2T/4T | 20KG wire spool | Thermal overload protection

Standard Accessories:

- 3m(L) MIG torch .
- 3m(L) cable with ground clamp .
- 3m(L) cable with electrode holder.
- 5m(L) external wire feeder.

Model	50/60Hz	Input power	I_{1max}	MIG/MAG	MMA	OCV	Duty Cycle (X%)			Wire dia.	LxWxH (mm)	KG
								60%	100%			
MIG-350IT	3PH 380V±15%	13.9KW	21.2A	20-350A	20-350A	68V	MIG	350A	270A	0.8-1.6mm	1120*500*1420mm	68/73kg
							MMA	350A	270A			
MIG-500IT	3PH 380V±15%	24.7KW	37.5A	20-500A	20-500A	68V	MIG	500A	387A	0.8-1.6mm	1120*500*1420mm	81/86kg
							MMA	500A	387A			

S SS Ni CI AL CB Mg Ti EC

MIG-500IW

INDUSTRIAL USE

Features

- **20kg wire spool capability:** Pofessional for industrial application.
- **2T/4T:** Self-locking function make your work easy.
- **Generator friendly:** Adopt soft switch technology to allow input voltage fluctuation.



20KG wire spool

IGBT module

Water-cooled system

High-Speed Spot Welding

Heavy Industry



Carbon steel Stainless steel

MIG/MAG MMA Flux cored (gasless)wire compatible LIFT TIG

4-Roll wire feeder | Intelligent control | 2T/4T | 20KG wire spool | Thermal overload protection

Standard Accessories:

- 5m(L) 501D water cooling 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.	Thickness	LxWxH	KG
								60%	100%				
MIG-500IW	3PH 380V±15%	24.7KW	37.5A	60-500A	40-500A	70V	MIG	500A	387A	0.8-1.6mm	2.0-50.0mm	1150*630*1660mm	105/147kg
							MMA	500A	387A				

S SS Ni CI AL CB Mg Ti EC

MIG-280P/350P

INDUSTRIAL USE

Features

- **Multi-process:** MIG/MAG,double pulse MIG/MAG, flux cored wire welding and MMA.
- **Synergic and pulsed MIG/MAG function:** Intelligent parameter automatically match, speed, quality and economy for professional.
- **Spatter-free:**Excellent arc stability reduces spatter and the need for post-weld grinding.
- **Optimized low-end aluminum pulse program:** Reduces heat input to prevent warping and burn-through on thin aluminum plate.
- **Widely usage in the industry:** Automobile frames, aluminum curtain walls, moulds, radiators, art crafts, boilers, automobile bus manufacturing, and other industries.



Synergic Control

Double-pulsed Aluminum Welding



AL.sheet | 15KG wire spool | Water-cooled (Optional)

MIG/MAG | MMA | Flux cored (gasless)wire compatible

4-Roll wire feeder | 2T/4T | Pulsed | Double pulsed | Memory

Al. fabrication | Up slope | Down slope | Synergic | Intelligent control

Standard Accessories:

- 3m(L) 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.	LxWxH (mm)	KG
								60%	100%			
MIG-280P	3PH 380V±15%	9.9KW	15.1A	20-280A	20-250A	65V	MIG	280A	217A	0.8-1.2mm	740*375*750mm	31.5/40kg
							MMA	250A	195A			
MIG-350P	3PH 380V±15%	13.9KW	21.2A	20-350A	20-310A	71V	MIG	350A	271A	0.8-1.2mm	740*375*1050mm	41.5/50kg
							MMA	310A	240A			

S SS Ni CI AL CB Mg Ti EC

MIG-500PW

INDUSTRIAL USE

Features

- **Multi-process power solution:** Professional heavy industry aluminum welding expert.
- **Heavy industry application:** Industrial-grade dual module adopted.
-Double pulsed process make your work easy.
- **Spatter-free:**Excellent arc stability reduces spatter and the need for post-weld grinding.
- **Synergic and pulsed MIG/MAG function:** Intelligent parameter automatically match, speed, quality and economy for professional.
- **Built-in water-cooled system and a cylinder rack:** Professional for heavy industry application





Full Digital Display

Double-pulsed Aluminum Welding



Water-cooled system

20KG wire spool | AL.Sheet

MIG/MAG | MMA | Flux cored (gasless)wire compatible

4-Roll wire feeder | 2T/4T | Pulsed | Double pulsed | Memory

Al. fabrication | Up slope | Down slope | Synergic | Intelligent control

Standard Accessories:

- 5m(L) 501D water cooling MIG torch (graphite hose inside) .
- 3m(L) cable with 500A ground clamp .
- 3m(L) cable with 500A electrode holder.
- 5m(L) external wire feeder.
- 5m(L) steel wire feed spring tube.
- 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	KG
								60%	100%				
MIG-500PW	3PH 380V±15%	24.7KW	37.5A	50-500A	40-500A	76V	MIG	500A	387A	0.8-1.6mm	1.0-50.0mm	1150*630*1660mm	105/147kg
							MMA	500A	387A				

S SS Ni CI AL CB Mg Ti EC

CTM-200

DIY

Features

- **4-in-1 Multi-process**
  Integrates MIG, CUT, TIG and ARC welding one machine for multiple uses.
- **Digital Inverter Technology**
  Precise arc control, stable performance energy-efficient.
- **Gas/Gasless MIG Compatible**
  Supports gas and gasless MIG welding, suitable for indoor & outdoor applications.
- **Premium Cutting Performance**
  8mm quality cutting, 12mm extreme cutting with smooth finis



5KG
wire spool

4-in-1

Multi-functional



Aluminum



Stainless steel



Carbon steel

Plasma cutter

MIG/MAG

MMA

HF TIG

Flux cored (gasless)wire compatible

Intelligent control

Synergic

Thermal overload protection

IGBT

Compact and portable

Hot start

Arc force

VRD

2T/4T

Pulsed

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	I1max	Plasma cutter	TIG	MIG/MAG	MMA	OCV	DutyCycle (X%)				LxWxH	KG
										40%	60%	100%		
CTM-200	1PH 220V±15%	8.2KW	37.4A	20-40A	10-200A	20-200A	30-160A	282V CUT	CUT	40A	32.7A	25A	510*260*440mm	13/17kg
								56V TIG	TIG	200A	163A	127A		
								56V MIG	MIG	200A	163A	127A		
								56V MMA	MMA	160A	131A	101A		

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.



MMA-250DS/300DS

INDUSTRIAL USE

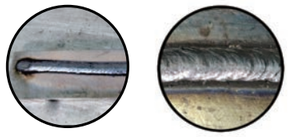
Features

- **Stable quality:** Advanced full bridge IGBT technology.
- **Dual input voltage:**Automatically connects to 1PH 220V/380V.
- **Large and clear meter display**.
- **High duty cycle** .
- **Easy arc ignition，adjustable arc force**.



Dual Voltage

High Duty Cycle



Carbon steel　　Stainless steel

MMA

Standard Accessories:

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

IGBT　Intelligent control　Thermal overload protection

Hot start　Arc force　VRD

Model	50/60Hz	Input power	I_{1max}	MMA	OCV	Duty Cycle (X%) 35%	Duty Cycle (X%) 100%	Rod max.	Thickness	LxWxH	KG
MMA-250DS	1PH 220/380V ±15%	9.6KW 9.5KW	43.6A 14.4A	30-200A(220V) 30-250A(380V)	65V	200A 250A	118A 148A	1.6-5.0mm	1.5-12.0mm	510*260*440mm	8.5/11.7kg
MMA-300DS	1PH 220/380V ±15%	12.2KW 12.1KW	55.3A 18.5A	30-240A(220V) 30-300A(380V)	65V	240A 300A	142A 177A	1.6-5.0mm	1.5-12.0mm	510*260*440mm	9.2/12.4kg

S SS Ni CI AL CB Mg Ti EC

MMA-300D/350D

INDUSTRIAL USE

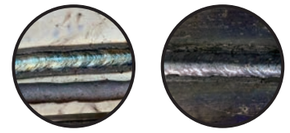
Features

- **Dual IGBT module design :** Professional for industrial application.
- **High OCV :**Available for all the electrodes welding.
- **Precise current control**.
- **Heavy duty cycle**.
- **Easy arc ignition，adjustable arc force**.



Dual Modules

Reliable Current Supply



Stainless steel　　Carbon steel

MMA

Standard Accessories:

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

IGBT module　Intelligent control　Arc force　Thermal overload protection

Model	50/60Hz	Input power	I_{1max}	MMA	OCV	Duty Cycle (X%) 60%	Duty Cycle (X%) 100%	Rod max.	Thickness	LxWxH	KG
MMA-300D	3PH 380V ±15%	12.2KW	18.5A	30-300A	65V	300A	230A	1.6-5.0mm	1.5-12.0mm	595*315*530mm	15.0/20.0kg
MMA-350D	3PH 380V ±15%	15.0KW	22.8A	40-350A	65V	350A	270A	1.6-6.0mm	>13.0mm	595*315*530mm	16.4/21.5kg

S SS Ni CI AL CB Mg Ti EC

MMA-550D

INDUSTRIAL USE

Features

- **Dual IGBT module design :** Professional for industrial application.
- **High OCV :**Available for all the electrodes welding.
- **Precise current control**.
- **High duty cycle** .
- **Easy arc ignition，adjustable arc force**.

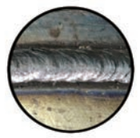


Dual Modules

High Duty Cycle



Carbon steel



Stainless steel

MMA

IGBT

Intelligent control

Arc force

Thermal overload protection

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.	LxWxH (mm)	KG
						60%	100%			
MMA-550D	3PH 380V ±15%	26.0KW	44.5A	40-550A	80V	550A	425A	1.6-60mm	710*385*680mm	29/34kg

S SS Ni CI AL CB Mg Ti EC

TIG

WELDING PROCESS

TIG
(GTAW)

Welding Metal Type

Carbon steel
Stainless steel
Alloy steel
AlMg/AlSi
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-200L AC/DC

INDUSTRIAL USE

Features

- **Multi-process:** AC TIG, AC pulsed TIG, DC TIG, DC pulsed TIG, cold welding, spot welding.
- **Intelligent:** Adopt current-mode PWM control technology for full digital program control.The stored parameters can be called up at any time, It is powerful and features high-definition digital display on the LED screen.
- **Remote control:** Foot pedal welding overcome the limitation of welding distance. (optional)



Capable for foot pedal remote control function (Optional)

- **Three Modes in One**
- **Cold Welding Mode (Precision Repair):** Utilizes microsecond pulse tech (<100°C heat input) for 0.1–1mm sheets and electronics.
- **DC TIG Mode (Standard Welding):** Uses pure argon gas protection, ideal for stable welding of stainless steel, carbon steel copper, and other materials.
- **AC TIG Mode (For Al/Mg Alloys):** High-frequency ignition + AC square wave (tri/sine) breaks aluminum oxide, preventing black soot.

cold welding

spot welding

Aluminum Welding Expert



Stainless steel Aluminum

Square wave | Triangle wave | Sine wave | HF TIG | MMA

IGBT | 2T/4T | Pulsed | Up slope | Down slope

AC/DC | Al. fabrication | Remote | Intelligent control | Thermal overload protection

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_{1max}	TIG	MMA	OCV	Duty Cycle (X%)			Rod max.	Thickness	LxWxH	KG
								30%	100%				
TIG-200L AC/DC	1PH 220V±15%	6.2KW	28.0A	5-200A	20-160A	62V	TIG	200A	110A	1.0-2.4mm	0.3-4.0mm	525*265*540mm	19/21kg
							MMA	160A	88A				

S SS Ni CI AL CB Mg Ti EC

TIG-250L&315L AC/DC

INDUSTRIAL USE

Features

- **Multi-process:** AC TIG, AC pulsed TIG, DC TIG, DC pulsed TIG, cold welding, spot welding.
- **Intelligent:** Adopt current-mode PWM control technology for full digital program control.The stored parameters can be called up at any time, It is powerful and features high-definition digital display on the LED screen.
- **Remote control:** Foot pedal welding overcome the limitation of welding distance. (optional)



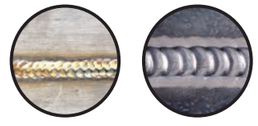
Capable for foot pedal remote control function (Optional)

- **Three Modes in One**
- **Cold Welding Mode (Precision Repair):** Utilizes microsecond pulse tech (<100°C heat input) for 0.1–1mm sheets and electronics.
- **DC TIG Mode (Standard Welding):** Uses pure argon gas protection, ideal for stable welding of stainless steel, carbon steel copper, and other materials.
- **AC TIG Mode (For Al/Mg Alloys):** High-frequency ignition + AC square wave (tri/sine) breaks aluminum oxide, preventing black soot.

cold welding

spot welding

Aluminum Welding Expert



Stainless steel Aluminum

Square wave | Triangle wave | Sine wave | HF TIG | MMA

IGBT | 2T/4T | Pulsed | Up slope | Down slope

AC/DC | Al. fabrication | Remote | Intelligent control | Thermal overload protection

Standard Accessories:

- 4m(L)WP-26 water cooling 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_{1max}	TIG	MMA	OCV	Duty Cycle (X%)			Rod max.	Thickness	LxWxH	KG
								X%	100%				
TIG-250L AC/DC	1PH 220V±15%	8.6KW	38.9A	5-250A	20-200A	62V	30%TIG	250A	137A	1.0-2.4mm	0.3-5.0mm	540*325*590mm	27/30kg
							30%MMA	200A	110A				
TIG-315L AC/DC	3PH 380V±15%	8.3KW	12.7A	5-300A	20-240A	68V	40%TIG	300A	164A	1.0-3.2mm	0.3-8.0mm	570*280*540mm	32/35kg
							40%MMA	240A	131A				

S SS Ni CI AL CB Mg Ti EC

TIG-200DP AC/DC

DIY · INDUSTRIAL USE

Features

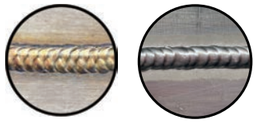
- **Multi-process:** AC TIG, AC pulsed TIG, DC TIG, DC pulsed TIG,MMA and auto welding.
- **Reliable arc ignition:** Arc starting with HF,100% success rate of arc ignition.
- **Full LCD digital control system:** with a variety of intelligent control functions and modes
- **Precise weld quality and arc ignition.**
- **2T/4T:** Self-locking function make your work easy.





Multi-functional

Aluminum Welding Expert



Stainless steel · Aluminum



Remote control (Optional)

HF TIG · MMA

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).

IGBT · 2T/4T · Pulsed · Up slope · Down slope · AC/DC · Al. fabrication · Remote · Intelligent control · Thermal overload protection

Model	50/60Hz	Input power	I_{1max}	TIG	MMA	OCV	Duty Cycle (X%)	25%	100%	Rod max.	LxWxH (mm)	KG
TIG-200DP AC/DC	1PH 220V±15%	6.2KW	28.0A	20-200A	20-170A	57V	TIG	200A	100A	1.6-4.0mm	590*260*440mm	13/18kg
							MMA	170A	85A			

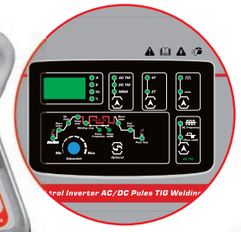
TIG-315PI AC/DC

INDUSTRIAL USE

Features

- **Multi-process:** AC TIG, AC pulsed TIG, DC TIG, DC pulsed TIG, MMA and auto welding.
- **Inteligent:** Adopt current-mode PWM control technology for full digital program control.
- **Built-in water-cooled system and a cylinder rack:** Professional for heavy industry application.
- **Reliable arc ignition :**Arc Starting with HF,100% success rate of arc ignition.
- **Excellent performance:** The quick pulse function increases welding speed and quality.
- **Remote control:** Foot pedal welding overcome the limitation of welding distance. (optional)
- **Widely application:** petrochemical, electric power construction, building construction, pipeline installation, general machinery manufacturing and other industries.





Water-cooled system

Aluminum Welding Expert

Preferred Tools for Industrial Use



Stainless steel · Aluminum

Capable for foot pedal remote control function (Optional)

HF TIG · MMA

Standard Accessories:

- 4m(L) WP-18 water cooling TIG torch.
- 3m(L) cable with 300A ground clamp.
- 3m(L) cable with 300A electrode holder.
- 3m(L) gas hose (hose hoop*2pcs).
- 5m(L) remote control foot pedal(Optional).

IGBT · Intelligent control · 2T/4T · Pulsed · Al. fabrication · AC/DC · Up slope · Down slope · Thermal overload protection · Remote

Model	50/60Hz	Input power	I_{1max}	TIG	MMA	OCV	Duty Cycle (X%)	60%	100%	Rod max.	Thickness	LxWxH	KG
TIG-315PI ACDC	3PH 380V±15%	9.0KW	13.7A	5-315A	20-280A	56V	TIG	315A	244A	1.0-5.0mm	1.0-10mm	750*380*760mm	52/55kg
							MMA	280A	217A				

TIG-400PI AC/DC

INDUSTRIAL USE

Features

- **Multi-process:** AC TIG, AC pulsed TIG, DC TIG, DC pulsed TIG, MMA and auto welding.
- **Inteligent:** Adopt current-mode PWM control technology for full digital program control.
- **Remote control:** Foot pedal welding overcome the limitation of welding distance. (optional)
- **Built-in water-cooled system and a cylinder rack:** Professional for heavy industry application.
- **Reliable arc ignition :**Arc starting with HF,100% success rate of arc ignition.
- **Excellent performance:** The quick pulse function increases welding speed and quality.
- **Widely application:** petrochemical, electric power construction, building construction, pipeline installation, general machinery manufacturing and other industries.



Capable for foot pedal remote control function (Optional)



Water-cooled system

Multi-functional

Aluminum Welding Expert



Stainless steel



Carbon steel



Aluminium

HF TIG

MMA

Intelligent control

2T/4T

Pulsed

Remote

Thermal overload protection

AC/DC

Al. fabrication

Up slope

Down slope

Standard Accessories:

- 4M(L) WP-18 water cooling TIG torch.
- 3m(L) cable with 300A ground clamp.
- 3m(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	KG
								60%	80%	100%				
TIG-400PIAC/DC	3PH 380V±15%	13.2KW	20.0A	10-400A	30-400A	70V	TIG	400A	346A	310A	1.0-5.0mm	1.4-12mm	1140*640*1230mm	63/96kg
							MMA	400A	346A	310A				

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-45L

INDUSTRIAL USE

Features

- Non-High Frequency IGBT Inverter
  High Efficiency & Durable
- Digital Precise Control, Smooth Burr-Free Cutting
- CNC Compatible, 220V Multi-Scenario Use
- Gas Check & Delay, Extend Consumable Life
- Voltage Fluctuation Resistant, Stable Performance



Superior Cutting

Non-High



15mm
Max cutting

Plasma cutter

CNC on-site mobile cutting application

Intelligent control

IGBT module

Thermal overload protection

2T/4T

Standard Accessories:

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

Model	50/60Hz	Input power	I1max	Plasma cutter	OCV	DutyCycle (X%)		Max cutting	Quality cutting	LxWxH	KG
						35%	100%				
CUT-45L	1PH 220V±15%	6.6KW	29.9A	20-40A	232V	40A	24A	15mm	10mm	440*210*335mm	9.0/11.0kg

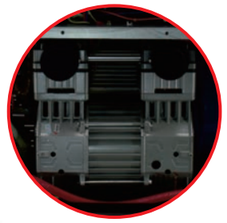
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CUT-50N/80N

INDUSTRIAL USE

Features

- Non-High Frequency IGBT Inverter
  High Efficiency & Durable
- Digital Precise Control, Smooth Burr-Free Cutting
- CNC Compatible, 220V Multi-Scenario Use
- Built-in Air Pump, No External Compressor Needed
- Gas Check & Delay, Extend Consumable Life
- Voltage Fluctuation Resistant, Stable Performance





Built-in Air Pump

Non-High



25mm
Max cutting
CUT-50N

30mm
Max cutting
CUT-80N

Built-in air compressor

Plasma cutter

CNC on-site mobile cutting application

Intelligent control

IGBT module

Thermal overload protection

Gird cutting

2T/4T

Standard Accessories:

- 4m(L) Non-HF Plasma Torch cutting torch.
- 3m(L) cable with 200A ground clamp.
- 3m(L) gas hose (hose hoop*2pcs).
- Valve/regulators(1pc).

Model	50/60Hz	Input power	I1max	Plasma cutter	OCV	DutyCycle (X%)		Max cutting	Quality cutting	LxWxH	KG
						35%	100%				
CUT-50N	1PH 220V±15%	7.6KW	34.3A	20-45A	232V	45A	27A	25mm	15mm	510*260*440mm	21/22kg
CUT-80N	3PH 380V±15%	8.7KW	13.2A	25-65A	290V	65A	38A	30mm	20mm	710*385*680mm	23/32kg

S SS Ni CI AL CB Mg Ti EC

CUT-70I

INDUSTRIAL USE

Features

- Robust and powerful cutting capacity.
- Automatic cutting ability: CNC equipment compatible.
- 2T/4T self-locking function.
- Adjustable pre-flow and post-flow.
- Operation safety protection: Over-voltage, low-voltage, over-current and overheat protection.

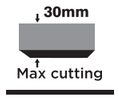




Effortless Cutting

Superior Cutting





Plasma cutter

Intelligent control

IGBT module

Thermal overload protection

Gird cutting

2T/4T

Standard Accessories:

- 5m(L) P80 cutting torch.
- 3m(L) cable with 200A ground clamp.
- 3m(L) gas hose (hose hoop*2pcs).
- Valve/regulators(1pc).

Model	50/60Hz	Input power	I1max	Plasma cutter	OCV	DutyCycle (X%)		Max cutting	Quality cutting	LxWxH	KG
						60%	100%				
CUT-70I	3PH 380V±15%	9.6KW	14.5A	30-70A	285V	70A	54A	30mm	20mm	595*315*530mm	23.5/30.0kg

S SS Ni CI AL CB Mg Ti EC

CUT-100I/120I/160I

INDUSTRIAL USE

Features

- Robust and powerful cutting capacity.
- Automatic cutting ability: CNC equipment compatible.
- 2T/4T self-locking function.
- Adjustable pre-flow and post-flow.
- Operation safety protection: Over-voltage, low-voltage, over-current and overheat protection.

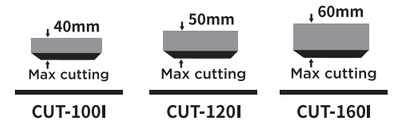




Effortless Cutting

Superior Cutting





CUT-100I CUT-120I CUT-160I

Plasma cutter

CNC on-site mobile cutting application

Intelligent control

IGBT module

Thermal overload protection

Gird cutting

2T/4T

Standard Accessories:

- 5m(L) P80 cutting torch.
- 3m(L) cable with 200A ground clamp.
- 3m(L) gas hose (hose hoop*2pcs).
- Valve/regulators(1pc).

Model	50/60Hz	Input power	I1max	Plasma cutter	OCV	DutyCycle (X%)		Max cutting	Quality cutting	LxWxH	KG
						60%	100%				
CUT-100I	3PH 380V±15%	15.2KW	23.1A	30-100A	300V	100A	77A	40mm	25mm	710*385*630mm	31.3/40.0kg
CUT-120I	3PH 380V±15%	19.4KW	29.5A	30-120A	300V	120A	93A	50mm	30mm	710*385*630mm	32.3/41.0kg
CUT-160I	3PH 380V±15%	29.1KW	44.3A	30-160A	315V	160A	124A	60mm	45mm	820*400*755mm	54/57.5kg

S SS Ni CI AL CB Mg Ti EC

CUT-70A/80A/100A/130A

INDUSTRIAL USE

Features

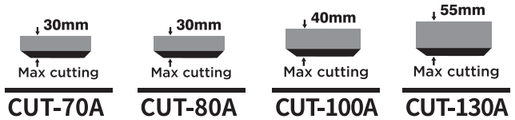
- **Engineered for rugged, industrial environments.**
- **Powerful cutting capacity:** Excellent for precise cutting result.
- **Cost effective:** Built -in Air compressor plasma cutting save your cost for extra outside air supply device.
- **Operation safety protection:** Over-voltage, low-voltage, over-current and overheat protection.



Built-in Air Pump

Superior Cutting





Plasma cutter | MMA | Built-in air compressor

IGBT module | Intelligent control | Grid cutting | Thermal overload protection

Hot start 100A /130A | Arc force Equipped with

Standard Accessories:

- 5m(L) P80 cutting 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	I1max	Plasma cutter	MMA	OCV	DutyCycle (X%)		Max cutting	Quality cutting	LxWxH	KG
							60%	100%				
CUT-70A	1PH 220V&3PH 380V ±15%	9.6KW 10.7KW	14.5A 48.6A	30-70A(380V) 30-60A(220V)	30-200A(380V) 30-200A(220V)	268V	70A	54A	30mm	25mm	710*385*680mm	50/53kg
CUT-80A	3PH 380V±15%	11.3KW	17.2A	30-80A	30-250A	285V	80A	62A	30mm	25mm	710*385*680mm	55/58kg
CUT-100A	3PH 380V±15%	15.2KW	23.1A	30-100A	30-300A	295V	100A	77A	40mm	30mm	740*405*710mm	62/65kg
CUT-130A	3PH 380V±15%	21.7KW	33.0A	30-130A	30-400A	315V	130A	100A	55mm	40mm	830*400*760mm	58*62kg

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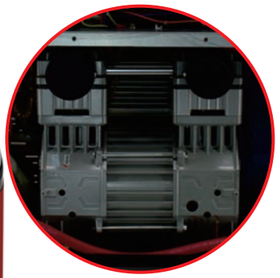
CUT-180A

INDUSTRIAL USE

Features

- **Engineered for rugged, industrial environments.**
- **Powerful cutting capacity:** Excellent for precise cutting result.
- **Cost effective:** Built-in air compressor plasma cutting save your cost for extra outside air supply device.
- **Operation safety protection:** Over-voltage, low-voltage, over-current and overheat protection.

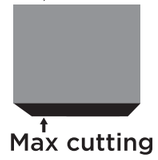




Built-in Air Pump

Superior Cutting





Plasma cutter | MMA | Built-in air compressor

IGBT module | Intelligent control | Hot start | Arc force | Grid cutting | Thermal overload protection

Standard Accessories:

- 5m(L) cutting 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	I1max	Plasma cutter	MMA	OCV	DutyCycle (X%)		Max cutting	Quality cutting	LxWxH	KG
							60%	100%				
CUT-180A	3PH 380V±15%	34.6KW	52.6A	30-180	30-500A	360V	180A	140A	70mm	55mm	900*500*1350mm	90/115kg

LASER WELDING

WELDING PROCESS

Welding Metal Type

Laser Welding
Fiber Laser Welding

Carbon steel
Stainless steel
Aluminum alloy
Copper
Galvanized sheet

Application

Automotive manufacturing, aerospace, precision hardware,electronics manufacturing, shipbuilding, etc.

Selection Guides

User-friendly and high-precision.
Well suited for high-speed, high-efficiency batch welding.
More convenient for precision welding of thin plates and special-shaped parts.

L-C08I/C12I

DIY INDUSTRIAL USE

Features

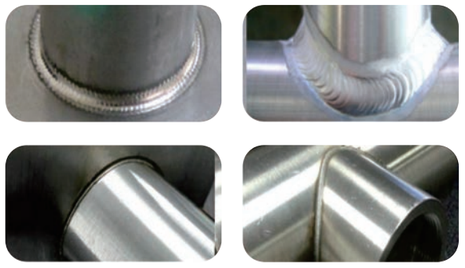
- The laser and wire feeding system are integrated and built-in,with a compact structure.
- Air-cooling with no water maintenance required.
- Light weight design of the welding torch,Easy to use and less tiring.
- Suitable for carbonsteel,stainless steel, galvanized sheet,aluminum and so on.



High E-O Conversion Efficiency

Continuous & Pulse modes

18 language options



Standard Accessories:

- 5m(L) Handheld Laser Welding Torch
- Protective Gear (Safety Goggles)

Model	50/60Hz	Laser power	Type of cooling	Wave length	Welding Thickness	Power Adjustment Range	LxWxH (mm)	KG
L-C08I	1PH/220V	800W	Air cooling	1070±10nm	carbon steel 3mm stainless steel 3mm aluminum 2mm	10%-100%	630*300*530mm	43KG
L-C12I	1PH/220V	1200W	Air cooling	1070±10nm	carbon steel 4mm stainless steel 4mm aluminum 2.5mm	10%-100%		45KG

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LW-E12/E15/E20

INDUSTRIAL USE

Features

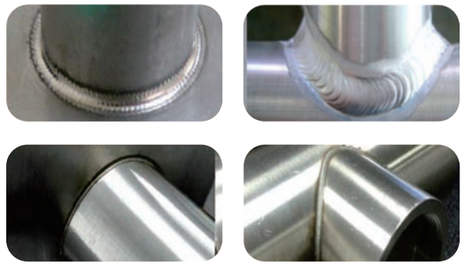
- Smallsize,flexible operation and easy mobility.
- One machine can replace 5 professional welders.
- 3-5 times faster than traditional welding.
- Workers without experience can operate in 5minutes.



Continuously work for 24 hours

Continuous & Pulse modes

18 language options



Standard Accessories:

- 8m(L) Handheld Laser Welding Torch
- Wire Feeder
- Protective Gear (Safety Goggles)

Model	50/60Hz	Laser power	Type of cooling	Wave length	Welding Thickness	Power Adjustment Range	LxWxH (mm)	KG
LW-E12	1PH/220V	1200W	Water cooling	1070±10nm	carbon steel 3mm stainless steel 3mm aluminum 2mm	10%-100%	1010*870*850mm	160KG
LW-E15	1PH/220V	1500W	Water cooling	1070±10nm	carbon steel 4mm stainless steel 4mm aluminum 3mm	10%-100%		
LW-E20	1PH/220V	2000W	Water cooling	1070±10nm	carbon steel 5mm stainless steel 5mm aluminum 4mm	10%-100%		

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