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MAX20
heavy duty welding&cutting machines



MAX20

heavy duty welding&cutting machines

MAX20 is a heavy duty welding&cutting range. This range is empowered by 2 patents for inventions, 5 utility models, and 3 design patents. It also features E-weld smart welding support system and dust-free separated air passage design. Thanks to JASIC's vast welding parameter database, MAX20 is armed with more intelligent synergic welding capabilities. With its 100% duty cycle, MAX20 is an ideal choice for long duration welding with full load and stable arc.



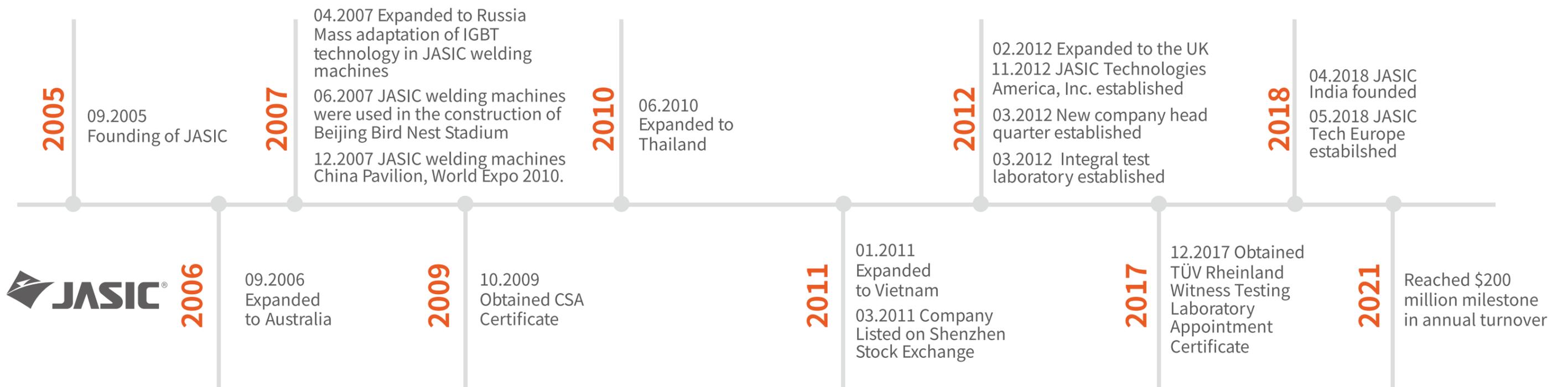
JASIC' s Story

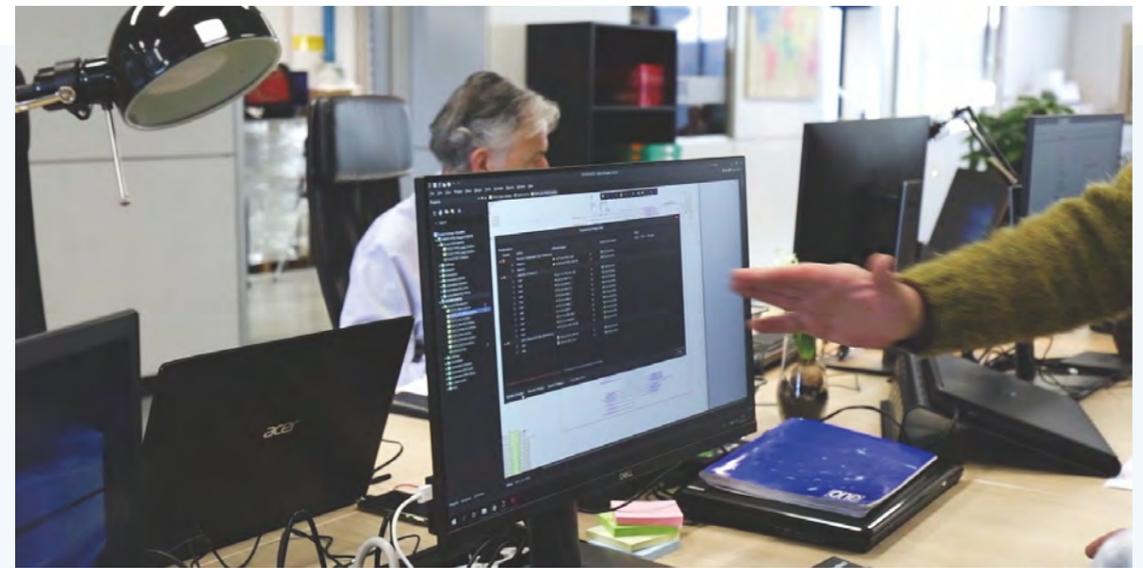
JASIC is a forerunner of IGBT inverter welding technology, and its products were used in some of the most ambitious projects in modern history such as the Beijing Bird's Nest Stadium. Founded in 2005, the company has grown into an international business with a \$200 million annual turnover* and over 1000 staffs worldwide. With 3 R&D centres, JASIC has more than 130 R&D personnel and industry-leading test laboratories certified by TÜV Rheinland and CSA.

Exporting to over 80 countries and regions, JASIC has an annual production capacity of 1 million machines.

JASIC is driven by its passion for the world' s welding needs, and strives to deliver reliable and ecological solutions.

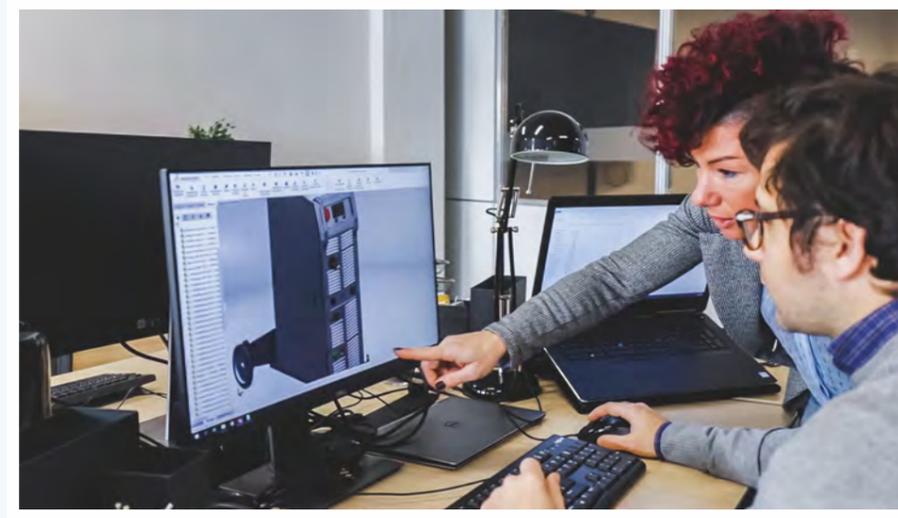
** Data of 2021 financial year*



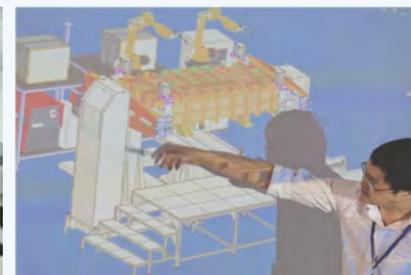


R&D Strength

As an innovation-driven company, we spend 5% of our annual revenue into research and development. So far we've set up 3 R&D centers. With currently 250+ patents and 150+ R&D staffs, we are determined to have R&D and innovation taking the center stage in our company's growth.



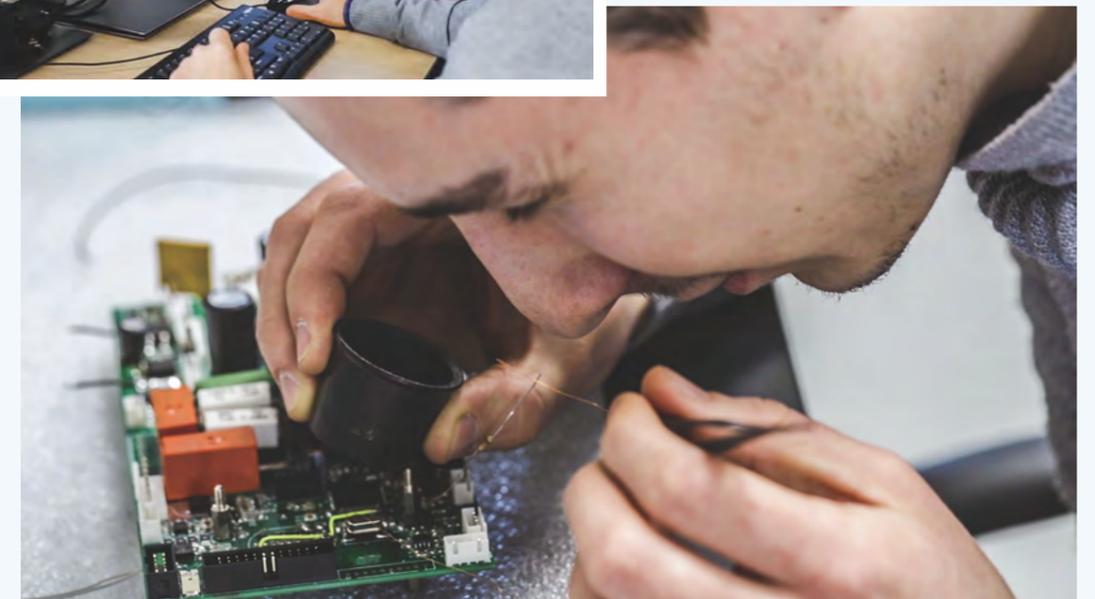
Professional R&D staffs



Technical platforms



Industry-leading test labs





Metal dust test

Industry-leading Test Laboratories

A crucial part of JASIC Quality, our test laboratories are appointed and authorized by both TÜV Rheinland and CSA Group.



EMC test

A total of 120+ power source level test items are available, assuring product compliance with the most stringent quality and safety standards.



Water spray test



Drop test



Mechanical vibration test



JASIC Quality

The concept of "JASIC Quality" goes well beyond product quality control. It's about implementing sustainability strategies in all aspects of JASIC's operation.

As an ISO-certified company, JASIC strives to develop reliable, energy-efficient, and eco-friendly solutions to the global welding market.

JASIC Quality ensures reliability and performance certified by the most prodigious quality management institutions in the world.



MAXX20

CONTENT

MIG series

MIG 350 N387II

MIG 500 N388II

MIG 350 N391II

MIG 500 N392II

CUT series

CUT 125 L312II

CUT 160 L316II

SAW series

MZ 1000 M311II

MZ 1250 M312II

MAX20 heavy duty welding&cutting machines



Products' components and functions may be subject to change.

MAX20 heavy duty welding&cutting machines



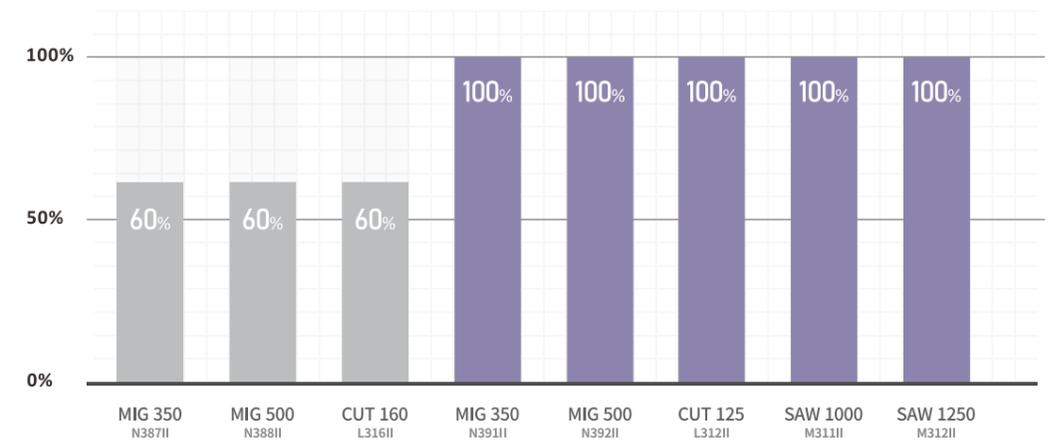
Hi-Def
digital display



Products' components and functions may be subject to change.

High Duty Cycle

Rated duty cycle @40°C



Dust-Free Sealed Air Passage Design, Capable Of Enduring:

up to 3h of metal dust test

with

100% conductive iron powder

of

max.100kg



Excellent dust-proof and heat dissipation capabilities



Products' components and functions may be subject to change.

MIG 350 N387II

MIG 500 N388II

MIG 350 N391II

MIG 500 N392II



Synergic MIG



Dust-Free sealed air passage



Fast wire feeding



On-demand fan



Hi-Def digital display



Products' components and functions may be subject to change.

High Output Power, Stable Arc

- High output power, fast weld seam formation, high deposition efficiency
- Capable of long duration welding with 100% duty cycle (N391II&N392II) at 40° ambient temperature
- Stable welding with $\phi 1.2\text{mm}$ welding wire and 45mm wire stick-out length
- Support MIG, MMA, and Plasma arc gouging functions
- Synergic MIG enabled, automatching welding parameters
- Dust-Free sealed air passage design with excellent dust-proof and heat dissipation capabilities

Standard Accessories

- Wire feeder x1
- MIG torch x1
- Grounding cable x1
- 7-pin aviation plug x2



Products' components and functions may be subject to change.

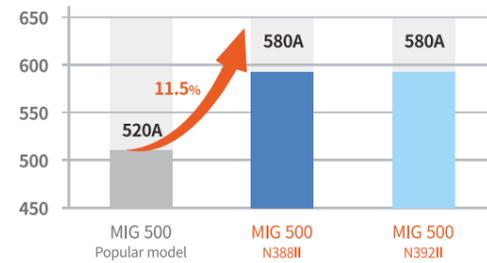
		MIG 350 N387II	MIG 350 N391II	MIG 500 N388II	NBC 500 N392II
Input	Rated input voltage (V)	3ph AC380V \pm 20% 50/60Hz			
	Rated input power capacity (kVA)	15.6	15.6	26.7	26.7
	Power factor	0.94	0.94	0.94	0.94
Output	Rated no-load voltage(V)	75	65	80	80
	Welding current range(A)	30~350	30~350	30~500	30~500
	Welding voltage range(V)	10~40	10~40	15~50	15~50
	Regulator heater voltage(V)	AC36V(120W)	AC36V(120W)	AC36V(120W)	AC36V(120W)
	Wire feed speed range(m/min)	1.5~24	1.5~24	1.5~24	1.5~24
Others	Output characteristics	MMA:CC MIG/MAG:CV	MMA:CC MIG/MAG:CV	MMA:CC MIG/MAG:CV	MMA:CC MIG/MAG:CV
	Rated duty cycle @40°C	60%	100%	60%	100%
	Efficiency	89%	89%	89%	89%
	Insulation class	F	F	F	F
	Protection class	IP23	IP23	IP23	IP23
	Weight(kg)	44	44	54	60
	Dimensions(mm)	625*283*575	625*283*575	625*336*670	625*336*670

High Output Power

MIG 350 has 34.2% higher maximum output current compared to other popular models



MIG 500 has 11.5% higher maximum output current compared to other popular models



Stable Welding Performance With Long Stick-Out Length



- Weld normally with $\phi 1.2\text{mm}$ wire and 45mm stick-out length
- Suitable for narrow gap welding, thick plate bevel welding, and vertical weave welding



Narrow gap welding/thick plate bevel welding



Vertical weave welding

Fast Weld Seam Formation, High Deposition Efficiency



- With 100 meters of 50mm^2 cable, weld with 300A current and $\phi 1.2\text{mm}$ wire, JASIC MIG500 (N392II) has a wire feed speed of 19m/min while the Avg. wire feed speed of other popular models is 15.3m/min.
- Plus, it has 24% higher deposition efficiency compared to other popular models

Weld Demonstration:



MIG 500 N392 II

Material: Carbon steel

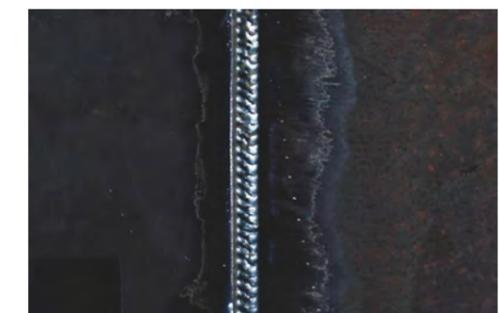
Gas: CO_2

Plate thickness: 30mm

Wire diameter: $\phi 1.2\text{mm}$

Parameters: 280A/33.1V

Inductance setting position: Standard



MIG 350 N391 II

Material: Carbon steel

Gas: CO_2

Plate thickness: 12mm

Wire diameter: $\phi 1.2\text{mm}$

Parameters: 98A/18.6V

Inductance setting position: Standard

CUT series



Products' components and functions may be subject to change.

Excellent Cutting Results With Limited Dross And Smooth Cutting Surface

- For cutting carbon steel plates
- CUT 125 (L312II) with quality cut thickness of 30mm and max. cut thickness of 50mm
- CUT 160 (L316II) with quality cut thickness of 40mm and max. cut thickness of 60mm



Auto-detection For Cut Starts

Higher cut accuracy with edge starts and pierce cuts auto-detection, significantly extending consumables' lifespan

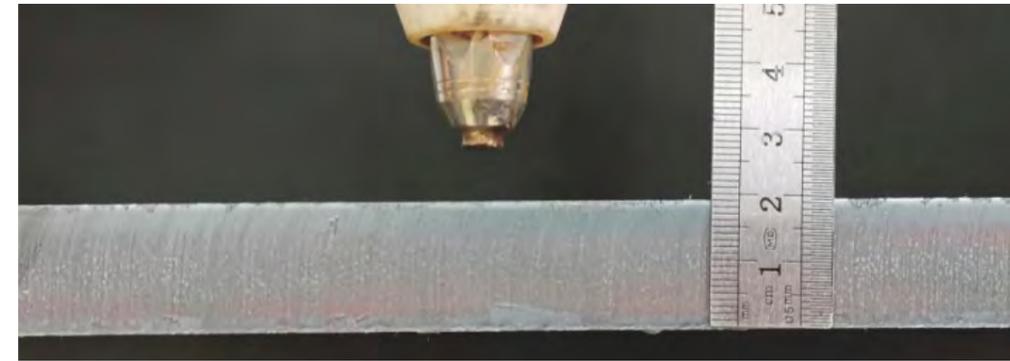


High Voltage Pulse Arc Ignition

- Cutting with high voltage pulse arc ignition can significantly reduce the interference of arc ignition on CNC equipment

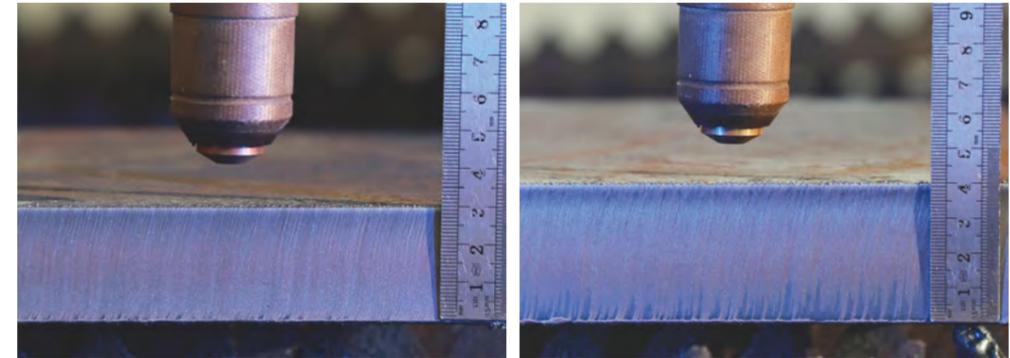


Products' components and functions may be subject to change.



Carbon Steel Plate 20mm

CUT 125(L312II): 125A - 800mm/min - 0.5MPa

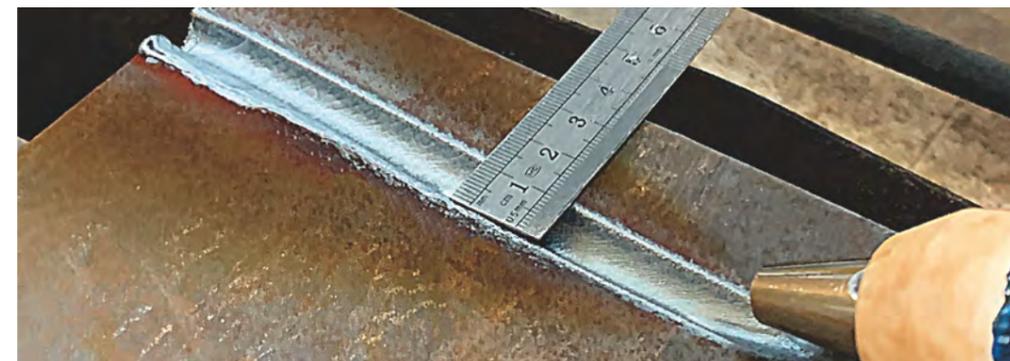


Carbon Steel Plate 30mm

CUT 160(L316II): 160A - 500mm/min - 0.5MPa

Carbon Steel Plate 40mm

CUT 160(L316II): 160A - 350mm/min - 0.5MPa



Plasma Arc Gouging By CUT125 With Automatic Carriage

Gouging carriage: GCD400-3 gouging&beveling function Gouging torch: P80P-100A-8M
 Gouging current: 100A Nozzle diameter: 2.5mm Travel speed: 250mm/min
 Working pressure: 0.4MPa Bevel angle: 30° Bevel width: 11~12mm Bevel depth: 6~7mm

CUT 125 L312II

CUT 160 L316II



Products' components and functions may be subject to change.

Excellent Cutting Performance

- Excellent cutting results with limited dross and smooth cutting surface
- Continuous cutting, mesh cutting, and plasma arc gouging functions
- Auto-detection for edge starts and pierce starts
- Stable output, remains functional even with input voltage low to AC300V
- Can be used with CNC machines
- Two types of arc ignition methods: high frequency(HF) and high voltage pulse(HV).

Arc ignition by high voltage pulse can significantly reduce the interference of arc ignition on CNC equipment.



Dust-Free sealed air passage



On-demand fan



Hi-Def digital display

Standard Accessories

- 35-50 quick plug x1
- 2-pin aviation plug x1
- 4-pin aviation plug x1
- 6m cutting torch x1



		CUT 125 L312II	CUT 160 L316II
Input	Rated input voltage (V)	3ph AC380V±15% 50Hz	3ph AC380V ±15%50Hz
	Rated input power capacity (kVA)	23	29.2
	Power factor	0.9	0.9
Output	Rated no-load voltage(V)	350	320
	Cutting current voltage (A)	30~125	30~160
	Rated output voltage (V)	130	144
	Quality cut thickness (mm) @speed:350mm/min	30 (Carbon steel)	40 (Carbon steel)
	Sever cut thickness (mm)	50 (Carbon steel)	60 (Carbon steel)
Others	Arc start	Pilot arc ignition	Pilot arc ignition
	Rated duty cycle @40°C	100%	60%
	Insulation class	H	H
	Protection class	IP23	IP21S
	Weight(kg)	51	54
	Dimensions(mm)	690*349*635	690*349*635



Products' components and functions may be subject to change.

MZ 1000 M311II

MZ 1250 M312II



Dust-Free sealed air passage



On-demand fan



Hi-Def digital display



Products' components and functions may be subject to change.

Excellent Arc Start, Stable Welding, No Wire Sticking

- Excellent arc ignition performance, specially for stainless steel
- Limited fluctuation of welding current and voltage, ensuring stable wire feeding
- Precise preset welding current for CV mode welding
- No wire sticking by unique weld crater technology
- With SAW, MMA, and Gouging functions
- Rich function settings(secondary menu) and protection mechanism

Standard Accessories

- MK-3 control box + carriage
- 15 meters of 70mm² welding cable x2/ 5 meters of 70mm²
- 5 meters of 70mm² earth cable x2/ 15 meters of control cable x1/ 1 meter of guide rail x2



		MZ 1000 M311II	MZ 1250 M312II
Input	Input voltage (V)	3ph AC380V±15% 50Hz	3ph AC380V±15% 50Hz
	Rated input power capacity (kVA)	54.5	67.2
	Power factor	0.89	0.9
Output	Rated no-load voltage(V)	83	83
	Rated max. output of SAW (A/V)	1000/44	1250/44
	Rated max. output of SAW (A/V)	1000/44	1250/44
	Welding voltage range (V)	20~50	20~50
	Welding current range (A)	50~1010	50~1250
Others	Wire feed speed range(cm/min)	30~300	30~300
	Travel speed range of carriage(cm/min)	10~150	10~150
	Rated duty cycle (@40°C)	100%	100%
	Efficiency	90%	90%
	Cooling method	Air cooling	Air cooling
	Insulation class	H	H
	Protection class	IP23	IP23
	Weight(kg)	96	96
	Dimensions(mm)	820*370*765	820*370*765

Stable Welding Process

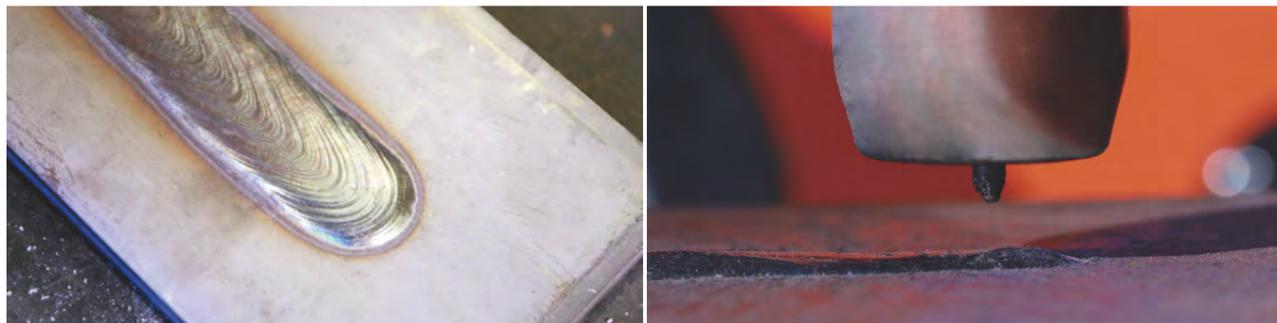
- Stable welding with wires of various diameters and materials
- Limited fluctuations of welding current and voltage



Excellent Arc Ignition Performance No Wire Sticking When Arc Stops

Excellent arc ignition performance, solving the problem of difficult arc ignition specially for stainless steel welding

No wire sticking by unique weld crater control technology, improving arc ignition success rate



Standard Carriage



Items	Values
Rated input voltage of control box	AC110V±15%
Rated input voltage of traveling mechanism	Servo motor DC110V (permanent magnet)
Rated input voltage of wire feeding mechanism	Servo motor DC110V (permanent magnet, reserved interface of excitation)
Wire feeding method	Variable feeding speed or constant feeding speed by feedbacks of arc voltage
Welding speed range	10~150cm/min
Wire feed speed range(m/min)	30~300cm/min
Applicable welding power source (rated value)	630A, 1000A, 1250A
Applicable welding wire diameter	Ø2.0mm~Ø6.0mm (Other wire diameter ranges are optional)
Flux hopper capacity	6L
Wire spool weight	25kg
Dimensions(L*W*H)	1020*480*740mm
Weight(kg)	55kg(without wire)

MK-3 Control Box

- Compact design for high operation flexibility
- Digital control for optimal welding performance
- High protective performance, capable of working in harsh environment
- Equipped with sync start interface for automatic equipment
- Built-in CP characteristic changeover function, simulating the welding characteristics of SCR welding machine
- Touch-stop function, ensuring that the wire stops at the determined position
- Capable of using handheld operation box near working sites with optional extension cable
- Handheld box attached on the main control box by strong magnet, ensuring high mobility and safety



MK-4 Control Box For Automatic Equipment (Optional Carriage)



- Analog operation panel with easy and practical functions
- Suitable to use with automatic equipment such as column and boom welding manipulator, H beam auto welding machine, etc.
- The control terminal of control board for automatic equipment is open to users, convenient for users to transfer signals such as start, stop, preset value, display, etc.

Function Description

No.	Advanced functions	Adjustment range	Factory default values	Remarks
P01	Arc ignition current	100A~1000/1250A	1000/1250	Welding current in arc starting phase. Max. value varies according to different models
P02	Arc ignition time	0.0~2.0S	0.0	Duration of arc ignition current
P03	Wire drawing/inching speed	0.2~2.2m/min	0.80	Get higher speed by increasing value, and get max. speed automatically after pressing and holding for 10s.
P04	Slow wire feed speed	0.03~2.0m/min	0.25	Get higher speed by increasing value
P05	Crater current	200~1000/1250A	300	Welding current in crater phase. max. value varies according to different models
P06	Crater voltage	20~50V	28.0	Welding voltage in crater phase
P07	Crater time	0.0~10.0S	0.0	Duration of crater phase
P08	Burn back time	0.0~2.0S	0.0	Arc burning time after wire feeding stops
P09	Motor rotation speed selection	3000/6000	3000	Using rotation speed in accordance with that of the used wire feeding motor
P10	CC characteristics selection	0/1	0	Select different constant current SAW characteristics according to users' demands on site
P11	Voltage feedback wire break detection device	on/off	on	ON: detect voltage feedback wire, and show E90 when wire breaks OFF: no detection