GUANGZHOU FENGHUO

WELDING & CUTTING

PRODUCT MANUAL

SINCE 1987

GUANGZHOU EACO WELDING EQUIPMENTS MANUFACTURE CO.,LTD.

INTRODUCTION

Guangzhou Yigao Welding Equipment Co., Ltd. specializes in the R&D and manufacture of welding and cutting equipment. Located in the Taiping Economic & Technological Development Zone, Conghua District, Guangzhou, it covers a site area of 40,000 square meters.

The Group's core brand FENGHUO was founded in 1987. From the first-generation magnetic-saturation DC arc welders to today's professional power sources built on a full-digital control platform, FENGHUO has been deeply engaged in welding equipment for nearly four decades. It continuously serves automotive, aerospace, shipbuilding, bridge & highway, steel structure, metallurgy and machinery manufacturing, as well as professional overseas users. Relying on consistent product quality, professional process adaptation capability and sincere customer service, FENGHUO has won widespread trust from users across industries.

FENGHUO has earned recognition including Guangdong Famous Brand, Trustworthy Manufacturer and High-tech Enterprise. As a standing director member of major industry bodies, it works with colleges and technical experts to develop precise, stable and efficient welding equipment, backed by multiple patents. This dedication since 1987 defines every machine.

40000 m^2
SITE AREA

24
PATENTS

30+
HONORS & CERTIFICATES



PHILOSOPHY

OUR GUIDING PRINCIPLES

Since 1987, we have focused on one mission: more reliable and efficient welding. This commitment defines the quality of every machine.

CORE PHILOSOPHY

Establish credibility through products, retain customers through service and grow through integrity. We continuously improve workflows, enhance brand value and build FENGHUO's unique competitiveness.

BUSINESS PHILOSOPHY

Grow sustainably and give back to society. Rooted in responsibility, we advance corporate development and social contribution together.

PRODUCTION PHILOSOPHY

Quality builds our enterprise. We follow ISO quality management standards, continuously improve processes and deliver dependable, cost-effective products.

R&D PHILOSOPHY

Guided by user needs and environmental, energy-saving and convenient design, we develop welders tailored to real working conditions.

SERVICE PHILOSOPHY

We treat customers like family. Every request receives a warm, sincere response as we strive for complete customer satisfaction.







CERTIFICATES

AWARDS & CERTIFICATIONS



PROJECT



Guangzhou Asian Games Opening Venue Construction



Great Wall Motor Manufacturing



Nanjing Olympic Sports Center



Ping An Finance Center, Shenzhen



Hong Kong-Zhuhai-Macao Bridge (HZMB)



Canton Tower Construction Project



Sichuan Jinglei Technology

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DC ARC WELDING

CNC Inverter DC Arc Welding

ZX7-400D

Dimensions (L×W×H): 440×190×360 mm



Features & Applications

- Adopts IGBT module full-bridge inverter technology with fast dynamic response, constant current output and stable welding current.
- Adjustable arc force current, compatible with various welding electrodes.
- Adjustable hot start current for better ignition of cold electrodes.
- Electrode anti-sticking function & VRD safety protection.
- Multi-protection: overheating, input phase loss and abnormal control voltage.
- All-position welding for acidic, basic, cellulosic and stainless steel electrodes.

Technical Specifications	ZX7-400D
Rated Input Voltage (V)	AC380V
Number of Phases	3
Power Frequency (Hz)	50/60Hz
Rated Input Current (A)	23
Rated Input Capacity (kVA)	15.1
Rated Duty Cycle (40°C)	35%
Rated Open-circuit Voltage (V)	U0=64V Ur=11.7V
Welding Current (A)	30~300
Boost Current (A)	0~50
Hot Start Current (A)	0~100
Hot Start Time (S)	0.1~3
Insulation Class	F
Enclosure Protection Class	IP21S
Cooling Method	Forced Air Cooling
Weight (kg)	9.8

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DC ARC WELDING

Digital IGBT Inverter DC Arc Welding Machine

ZX7-315S

Dimensions (L×W×H): 370×160×330 mm



ZX7-400S

Dimensions (L×W×H): 415×190×360 mm



Features & Applications

- Automatic voltage identification, supports single-phase 220V / 380V, strong grid adaptability.
- IGBT full-bridge inverter technology, fast dynamic response, constant current & stable welding current.
- Adjustable arc force current for various welding electrodes.
- Adjustable hot start current for better ignition of cold electrodes
- Electrode anti-sticking function.
- VRD safety protection.
- Multi-protection: overheating, abnormal control voltage.
- All-position welding for acidic, basic, cellulosic and stainless steel electrodes.

Duty cycle 50% at AC220V

Technical Specifications	ZX7-315S		ZX7-400S	
Rated Input Voltage (V)	AC220V	AC380V	AC220V	AC380V
Number of Phases	1			
Power Frequency (Hz)	50/60Hz			
Rated Input Current (A)	33.5	25	38.5	31
Rated Input Capacity (kVA)	7.4	9.5	8.5	11.8
Rated Duty Cycle (40°C)	50%	40%	50%	40%
Rated Open-circuit Voltage (V)	U0=70V Ur=11.7V	U0=64V Ur=11.7V	U0=72V Ur=11.3V	U0=64V Ur=11.3V
Welding Current (A)	30~180	30~200	30~200	30~240
Boost Current (A)	0~50			
Hot Start Current (A)	0~100			
Hot Start Time (S)	0.1~3			
Insulation Class	F			
Enclosure Protection Class	IP21S			
Cooling Method	Forced Air Cooling			
Weight (kg)	6.9		9.6	

TIG WELDING

CNC Inverter DC TIG Welder

WS-250D

Dimensions (L×W×H): 420×190×360 mm



Features & Applications

- IGBT half-bridge topology inverter, constant current output, stable welding current.
- 100% arc striking success rate, fast ignition, high spot welding efficiency.
- Bright white weld bead, suitable for sheets ≤4 mm.
- Multi-protection: overheating, abnormal control voltage; high welding reliability.
- Adjustable post-flow time for various welding processes.

Technical Specifications	WS-250D
Rated Input Voltage (V)	AC220V
Number of Phases	1
Power Frequency (Hz)	50/60Hz
Rated Input Current (A)	36
Rated Input Capacity (kVA)	7.9
Rated Duty Cycle (40°C)	25%
Rated Open-circuit Voltage (V)	54
Welding Current (A)	15~220
Post-flow Time (s)	1~10
Insulation Class	F
Enclosure Protection Class	IP21S
Cooling Method	Forced Air Cooling
Weight (kg)	8.7

TIG WELDING

CNC Inverter DC TIG Welder

WS-300DS

Dimensions (L×W×H): 450×190×360 mm

Duty cycle: 50%



Features & Applications

- Automatic voltage identification, supports singlephase 220V / threephase 380V, strong grid adaptability.
- IGBT full-bridge topology, current-mode PWM control, constant current output, stable welding current.
- Fast arc ignition, high efficiency, 100% arc striking success rate.
- Adjustable post-flow time for various welding processes.
- Adjustable arc force current for various welding electrodes.
- Electrode anti-sticking function.
- Multi-protection: overheating, abnormal control voltage; high welder reliability.
- Combined TIG & MMA welding, all-in-one machine, easy to use.

Technical Specifications	WS-300DS	
Rated Input Voltage (V)	AC 1-220V/AC 3-380V	
Number of Phases	1/3	
Power Frequency (Hz)	50/60Hz	
Rated Input Current (A)	(AC220V) TIG:29A / MMA:34A	(AC380V) TIG:10A / MMA:10A
Rated Input Capacity (kVA)	(AC220V) TIG:6.4KVA / MMA:7.5KVA	(AC380V) TIG:6.6KVA / MMA:6.6KVA
Rated Duty Cycle (40°C)	(AC220V) TIG:50% / MMA:60%	(AC380V) TIG:50% / MMA:100%
Rated Open-circuit Voltage (V)	(AC220V) TIG / MMA:79V	(AC380V) TIG/MMA:70V
Rated Welding Current (A)	(AC220V) TIG:15~220A / MMA:15~180A	(AC380V) TIG:15~250A / MMA:15~200A
Post-flow Time (s)	1~10	
Boost Current (A)	0~50	
Insulation Class	F	
Enclosure Protection Class	IP21S	
Cooling Method	Forced Air Cooling	
Weight (kg)	11.1	

TIG WELDING

CNC Inverter DC TIG Welder

WS-315D

Dimensions (L×W×H): 550×235×430 mm



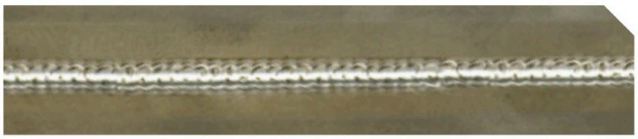
Features & Applications

- IGBT full-bridge topology, current-mode PWM control, constant current output, stable welding current.
- Fast arc ignition, high working efficiency, 100% arc striking success rate.
- Adjustable post-flow time for various welding processes.
- Electrode anti-sticking function.
- Adjustable arc force current for various welding electrode.
- Multi-protection: overheating, abnormal control voltage; high welder reliability.
- Integrated TIG & MMA welding, multi-functional, easy to operate.

WS-400D

Machine Dimension (L×W×H): 550×235×430 mm





Technical Specifications	WS-315D	WS-400D
Rated Input Voltage (V)	AC380V	
Number of Phases	3	
Power Frequency (Hz)	50/60Hz	
Rated Input Current (A)	TIG:13.5A / MMA:14.2A	TIG:17A / MMA:18.4A
Rated Input Capacity (kVA)	TIG:8.9KVA / MMA:9.3KVA	TIG:11.1KVA / MMA:12.1KVA
Rated Duty Cycle (40°C)	TIG:40% / MMA:60%	TIG:35% / MMA:40%
Rated Open-circuit Voltage (V)	69	84
Rated Welding Current (A)	TIG:15~300A / MMA:15~245A	TIG:15~350A / MMA:15~300A
Post-flow Time (s)	1~10	
Boost Current (A)	0~50	
Insulation Class	F	
Enclosure Protection Class	IP21S	
Cooling Method	Forced Air Cooling	
Weight (kg)	17	17.2

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TIG WELDING

Digital Inverter DC Pulse TIG Welder

WSM-315D

Dimensions (L×W×H): 550×235×430 mm



WSM-400D

Dimensions (L×W×H): 550×235×430 mm



Features & Applications

- IGBT full-bridge topology inverter, current-mode PWM control, constant current output & stable welding current.
- Fast & reliable arc ignition, high efficiency, near 100% ignition success.
- Fast welding speed, good weld quality, attractive bead profile, excellent crack resistance & minimal distortion.
- Multiple welding modes: MMA, TIG, Pulse TIG, Cold Welding.
- Simple Mode available for easier panel operation.
- Save/Recall function, stores up to 99 welding jobs.
- Built-in protections: overheat, input phase loss, abnormal control voltage; high welding reliability.
- Remote control function, works with foot switch and remote control box.
- Hot start current in MMA mode for better arc ignition with cold electrodes.
- Arc force current in MMA mode, adaptable for various electrodes.
- MMA anti-stick function.
- VRD available for MMA mode.
- Wide compatibility: stainless steel, carbon steel, copper, titanium, etc. Ideal for petrochemical, power, pipeline and machinery industries.

Technical Specifications	WSM-315D / 400D		
Rated Input Voltage (V)	AC380	Pulse Width (%)	1~99
Number of Phases	3	Pulse Frequency (Hz)	0.2~999
Power Frequency (Hz)	50/60Hz	Down-slope Time (s)	0~10
Rated Input Current (A)	WSM-315D: (TIG: 13.5A) / (MMA: 14.2A)	Spot Weld Time (s)	0.1~10
	WSM-400D: (TIG: 17A) / (MMA: 18.4A)	Cold Weld Time (ms)	1~800
Rated Input Capacity (kVA)	WSM-315D: (TIG: 8.8kVA) / (MMA: 9.3kVA)	Cold Weld Interval Time (s)	0.1~5
	WSM-400D: (TIG: 11.2kVA) / (MMA: 12.1kVA)	Crater Current (A)	WSM-315D: 15~300 / WSM-400D: 15~350
Rated Duty Cycle (40°C)	WSM-315D: (TIG: 40%) / (MMA: 60%)	Post-flow Time (s)	1~10
	WSM-400D: (TIG: 35%) / (MMA: 40%)	Hot Start Current (A)	0~100
Rated Open-circuit Voltage (V)	WSM-315D: 69 / WSM-400D: 84	Arc Force Current (A)	0~50
Pre-flow Time (s)	0~0.5	Insulation Class	F
Up-slope Time (s)	0~10	Enclosure Protection Class	IP21S
Welding Current (A)	WSM-315D: (TIG: 15~300) / (MMA: 15~245)	Cooling Method	Forced Air Cooling
	WSM-400D: (TIG: 15~350) / (MMA: 15~300)	Overall Size (mm)	550*235*430
Peak Current (A)	WSM-315D: 15~300 / WSM-400D: 15~350	Weight (kg)	WSM-315D: 16.3 / WSM-400D: 17.5
Base Current (A)	WSM-315D: 15~300 / WSM-400D: 15~350		

TIG WELDING

Digital Inverter AC/DC Pulse TIG Welder

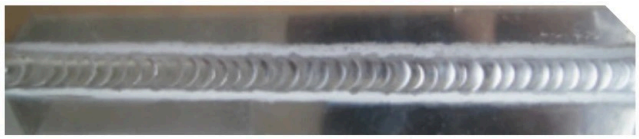
WSE-200D

Dimensions (L×W×H): 550×235×430 mm



Features & Applications

- IGBT full-bridge topology inverter, current-mode PWM control, constant current output & stable welding current.
- Fast & reliable arc ignition, high efficiency, near 100% ignition success.
- Fast welding speed, premium weld quality, bright white bead, good atomization performance.
- Multiple welding modes: MMA, TIG, Pulse TIG.
- Protections: overheat, abnormal control voltage; high welding reliability.
- Simple Mode available for easier panel operation.
- Hot Start Current improves arc ignition of cold welding electrodes.
- Arc Force Current adapts to various welding electrodes.
- VRD & anti-stick available.
- Wide compatibility: stainless steel, carbon steel, copper, titanium, aluminum alloy, etc.



Technical Specifications	WSE-200D		
Rated Input Voltage (V)	AC220	AC Cleaning Width (%)	-20~+20
Number of Phases	1	AC Frequency (Hz)	20~120
Power Frequency (Hz)	50/60Hz	Down-slope Time (S)	0~10
Rated Input Current (A)	DC: 27A / AC: 31 / MMA: 29A	Crater Current (A)	DC: 15~200 / AC: 30~200
Rated Input Capacity (kVA)	DC: 5.9KVA / AC: 6.8KVA / MMA: 6.4KVA	Post-flow Time (s)	1~10
Rated Duty Cycle (40°C)	DC: 30% / AC: 30% / MMA: 30%	Hot Start Current (A)	0~100
Rated Open-circuit Voltage (V)	60	Arc Force Current (A)	0~50
Pre-flow Time (s)	0~0.5	Insulation Class	F
Up-slope Time (S)	0~10	Enclosure Protection Class	IP21S
Welding Current (A)	DC: 15~200 / AC: 30~200 / MMA: 15~160	Cooling Method	Forced Air Cooling
Peak Current (A)	DC: 15~200 / AC: 30~200	Overall Size (mm)	550*235*430
Base Current (A)	DC: 15~200 / AC: 30~200	Weight (kg)	21.7
Pulse Width (%)	1~99		
Pulse Frequency (Hz)	DC: 0.2~999 / AC: 0.2~10		

TIG WELDING

Digital Inverter AC/DC Pulse TIG Welder

WSE-315D/400D

Dimensions (L×W×H): 604×250×571 mm



Features & Applications

- IGBT full-bridge topology inverter, current-mode PWM control, constant current output & stable welding current.
- Fast & reliable arc ignition, high efficiency, near 100% success rate.
- Fast welding speed, premium weld quality, bright white bead and good atomization performance.
- Multiple welding modes: MMA, TIG, Pulse TIG, Cold Welding.
- Simple Mode for easier panel operation.
- AC output waveforms: square wave, triangular wave.
- Protections: overheat, input phase loss, abnormal control voltage; high welding reliability.
- Remote control available, works with foot pedal & remote control box.
- Save & recall function, stores 99 jobs.
- Hot Start Current optimizes arc ignition of cold electrodes.
- Arc Force Current suits various welding electrodes.
- VRD & anti-stick functions available.
- Suitable for stainless steel, carbon steel, copper, titanium, aluminum alloy; widely applied in petrochemical, power, pipeline and machinery industries.

Technical Specifications	WSE-315D / 400D		
Rated Input Voltage (V)	AC380	Pulse Width (%)	1~99
Number of Phases	3	Pulse Frequency (Hz)	DC: 0.2~999 / AC: 0.2~10
Power Frequency (Hz)	50/60Hz	Down-slope Time (S)	0~10
Rated Input Current (A)	WSE-315D (DC: 20A / AC: 19 / MMA: 14.2A)	Spot Weld Time (S)	0.1~10
	WSE-400D (DC: 24A / AC: 27 / MMA: 23A)	AC Cleaning Width (%)	-20~+20
Rated Input Capacity (kVA)	/SE-315D (DC: 13.2KVA / AC: 12.5KVA / MMA: 9.3KVA)	AC Frequency (Hz)	20~120
	WSE-400D (DC: 15.8KVA / AC: 17.8KVA / MMA: 15.1KVA)	Cold Weld Time (ms)	1~800
Rated Duty Cycle (40°C)	WSE-315D (DC: 30% / AC: 30% / MMA: 60%)	Cold Weld Interval Time (ms)	0.1~5
	WSE-400D (DC: 30% / AC: 30% / MMA: 50%)	Crater Current (A)	SE-315D (DC: 15~300 / AC: 30~300)
Rated Open-circuit Voltage (V)	72		WSE-400D (DC: 15~350 / AC: 30~350)
Pre-flow Time (s)	0~0.5	Post-flow Time (s)	1~10
Up-slope Time (S)	0~10	Hot Start Current (A)	0~100
Welding Current (A)	WSE-315D (DC: 15~300 / AC: 30~300 / MMA: 15~250)	Arc Force Current (A)	0~50
	WSE-400D (DC: 15~350 / AC: 30~350 / MMA: 15~280)	Insulation Class	F
Peak Current (A)	WSE-315D (DC: 15~300 / AC: 30~300)	Enclosure Protection Class	IP21S
	WSE-400D (DC: 15~350 / AC: 30~350)	Cooling Method	Forced Air Cooling
Base Current (A)	WSE-315D (DC: 15~300 / AC: 30~300)	Overall Size (mm)	604*250*571
	WSE-400D (DC: 15~350 / AC: 30~350)	Weight (kg)	33

DC ARC WELDING

DC Welding Inverter DC Arc Welder

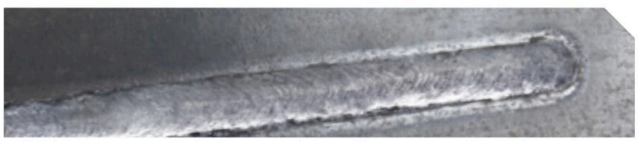
ZX7-315PS Ø3.2mm Continuous Weld

Dimensions (L×W×H): 350×165×340 mm



Features & Applications

- Auto input voltage recognition, single-phase 220V & 380V compatible.
- IGBT half-bridge topology, operating frequency up to 35KHz, high output current & lightweight.
- Digital display for preset current.
- Built-in Hot Start Current enhances arc ignition of cold welding electrodes.
- Adjustable Arc Force Current adapts to various electrodes.
- Overcurrent & overheat protections.
- Works with acidic, basic, cellulose and heat-resistant steel electrodes.



ZX7-400PS Ø4.0mm Continuous Weld

Dimensions (L×W×H): 350×165×340 mm



ZX7-500PS Ø5.0mm Continuous Weld

Dimensions (L×W×H): 350×165×340 mm



Technical Specifications	ZX7-315PS		ZX7-400PS		ZX7-500PS	
Power Frequency (Hz)	50/60					
Number of Phases	1					
Rated Input Voltage (V)	AC220V	AC380V	AC220V	AC380V	AC220V	AC380V
Rated Input Current (A)	34	26	36	28	44	39
Rated Input Capacity (kVA)	7.5	9.9	7.9	10.6	9.7	14.8
Rated Open-circuit Voltage (V)	61	52	71	61	71	61
Welding Current (A)	50-160	50-180	50-160	50-200	50-200	50-260
Rated Duty Cycle (40°C)	20%	15%	30%	20%	20%	15%
Insulation Class	F					
Enclosure Protection Class	IP21S					
Cooling Method	Forced Air Cooling					
Weight (kg)	5.5		5.7		6.4	

DC ARC WELDING

Inverter DC Arc Welder

ZX7-400I

Dimensions (L×W×H): 415×185×355 mm



Features & Applications

- IGBT module full-bridge topology, operating frequency up to 20KHz, high output current & high duty cycle.
- Digital control system, fast response.
- Preset current available.
- Built-in Hot Start Current for better ignition on cold electrodes.
- Adjustable Arc Force Current for various electrodes.
- VRD & electrode anti-stick available.
- Input undervoltage, phase loss and overheat protections.
- Compatible with acidic, basic, cellulose and heat-resistant steel electrodes.



ZX7-500I

Dimensions (L×W×H): 445×230×410 mm



ZX7-400

Dimensions (L×W×H): 445×230×410 mm



Technical Specifications	ZX7-400I	ZX7-500I	ZX7-400
Rated Input Voltage (V)	AC380V		
Power Frequency (Hz)	50/60Hz		
Number of Phases	3		
Rated Input Current (A)	19	26	26
Rated Input Capacity (kVA)	12.5	17.1	17.1
Rated Open-circuit Voltage (V)	64	70	70
Welding Current (A)	30-300	30-400	30-400
Rated Duty Cycle (40°C)	35%	30%	30%
Insulation Class	F		
Enclosure Protection Class	IP21S		
Cooling Method	Forced Air Cooling		
Weight (kg)	8.9	14.1	

TIG WELDING

Inverter DC TIG Welder

WS-200A

Dimensions (L×W×H): 388×162×318 mm



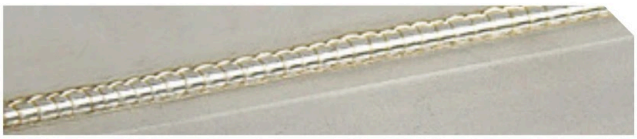
TIG-250S

Dimensions (L×W×H): 388×162×318 mm



Features & Applications

- Fast arc starting, high efficiency, 100% ignition success rate.
- Adopts current-mode PWM control technology, featuring fast dynamic response, constant current output and stable welding current.
- Model TIG-250S integrates MMA and TIG welding modes, multi-purpose and easy to operate.
- TIG-250S features arc force function to meet the welding performance requirements of different electrodes.
- TIG-250S has built-in hot start current to improve ignition performance of cold electrodes.
- TIG-250S is compatible with both acidic and basic welding electrodes.
- The TIG series features adjustable post-flow gas under TIG mode to meet the requirements of different welding processes.
- Multiple protection functions are equipped for high reliability of the welder.
- TIG-250S automatically adapts to 1P220VAC / 1P380VAC power supply with strong grid adaptability.



Technical Specifications	WS-200A	TIG-250S	
Rated Input Voltage (V)	AC220	AC220	AC380
Power Frequency (Hz)	50/60	50/60	50/60
Number of Phases	1	1	1
Rated Input Current (A)	TIG:20	TIG:20	TIG:15
Rated Input Capacity (kVA)	TIG:4.4	TIG:4.4	TIG:5.7
Rated Open-circuit Voltage (V)	55	65	55
Welding Current (A)	TIG:15~150	TIG:15~150	TIG:15~170
Welding Voltage (V)	10.6~16	10.6~16	10.6~16.8
Post-flow Time (s)	1~10	1~10	1~10
Rated Duty Cycle (40°C)	20%	30%	
Insulation Class	F	F	
Enclosure Protection Class	IP21S	IP21S	
Cooling Method	Forced Air Cooling	Forced Air Cooling	
Weight (kg)	6.2	7.1	

TIG WELDING

IGBT Inverter DC TIG Welder

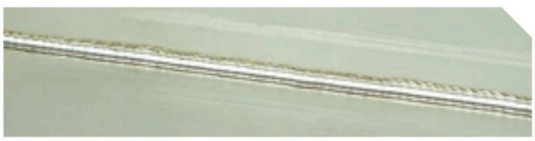
TIG-250

Dimensions (L×W×H): 388×162×318 mm



Features & Applications

- 100% arc ignition success rate, fast arc starting and high spot welding efficiency.
- Bright and nice weld bead appearance, suitable for sheet metal of 2mm and below.
- Actual welding output current up to 220A. Built-in multiple protection functions for high reliability.
- Adjustable post-flow time to meet the demands of different welding processes.



Technical Specifications	TIG-250
Rated Input Voltage (V)	AC220V
Power Frequency (Hz)	50/60
Number of Phases	1
Rated Input Current (A)	36
Rated Input Power (kW)	7.9
Open Circuit Voltage (V)	54
Welding Current (A)	15～220
Welding Voltage (V)	10.6～18.8
Rated Duty Cycle (%)	25（40°C）
Insulation Class	F
Enclosure Protection Class	IP21S
Cooling Method	Forced Air Cooling
Weight (kg)	7.6

TIG WELDING

IGBT Inverter DC TIG Welder

WS-315

Dimensions (L×W×H): 530×250×430 mm



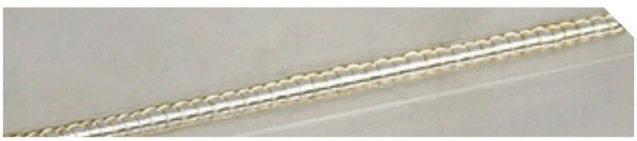
WS-400

Dimensions (L×W×H): 530×250×430 mm



Features & Applications

- Fast arc starting, high efficiency, 100% arc ignition success rate.
- Fast welding speed, superior welding quality, nice bead appearance, good crack resistance and low distortion.
- Adopts current-mode PWM control technology, featuring fast dynamic response, constant current output and stable welding current.
- Diverse welding modes and functions to satisfy different welding operation requirements.
- Integrates MMA and TIG welding modes in one unit, multi-purpose and easy to operate.
- Adjustable hot start current improves arc ignition performance for cold electrodes.
- Compatible with acidic, basic, cellulosic, heat-resistant steel and other types of electrodes.



Technical Specifications	WS-315	WS-400
Rated Input Voltage (V)	AC380V	AC380V
Power Frequency (Hz)	50 / 60Hz	
Number of Phases	3	3
Rated Input Current (A)	13.5(TIG) / 14.2(MMA)	17(TIG) /18.4(MMA)
Rated Input Capacity (kVA)	8.9(TIG) / 9.3(MMA)	11.2(TIG) / 12.1(MMA)
Rated Open-circuit Voltage (V)	69	84
Welding Current (A)	TIG:15～300 / MMA:15～245	TIG:15～350 / MMA:15～300
Post-flow Time (s)	1~10	1~10
Start Current (A)	0-50	0-50
Rated Duty Cycle (40°C)	60%（MMA) 40%（TIG)	40%（MMA) 35%（TIG)
Insulation Class	F	
Enclosure Protection Class	IP21S	
Cooling Method	Air-cooled / Water-cooled	
Weight (kg)	18.2	18.7

TIG WELDING

IGBT Inverter DC Pulse TIG Welder

WSM-315

Dimensions (L×W×H): 530×250×430 mm



WSM-400

Dimensions (L×W×H): 530×250×430 mm



Features & Applications

- Fast arc starting, high efficiency, 100% arc ignition success rate.
- Fast welding speed, excellent weld quality, attractive bead appearance, good crack resistance and low distortion.
- Adopts current-mode PWM control technology, featuring fast dynamic response, constant current output and stable welding current.
- Features four welding modes: MMA, TIG, Pulse TIG and Cold Welding.
- Real-time arc voltage display for continuous arc height monitoring.
- Adjustable hot start current improves arc ignition performance for cold electrodes.
- Adjustable arc force current to meet welding requirements of different electrodes.
- Compatible with various electrodes including acidic, basic, cellulosic and heat-resistant steel electrodes.
- Remote control function; supports a foot switch and PLC controller.
- Simple adjustment mode with ultra-simple panel operation.

Technical Specifications	WSM-315	WSM-400
Rated Input Voltage (V)	3~380V	
Power Frequency (Hz)	50/60	
Rated Input Current (A)	13.5(TIG) / 14.2(MMA)	17(TIG) /18.4(MMA)
Rated Input Capacity (kVA)	8.9(TIG) / 9.3(MMA)	11.2(TIG) / 12.1(MMA)
Rated Open-circuit Voltage (V)	69	84
Rated Duty Cycle (40°C)	60%（MMA ）/ 40%（TIG ）	40%（MMA ）/ 35%（TIG ）
Pre-flow Time (s)	0~0.5	
Start Current (A)	15~300	15~350
Up-slope Time (S)	0~10	
Welding Current (A)	TIG:15~300 / MMA:15~245	TIG:15~350 / MMA:15~300
Peak Current (A)	15~300	15~350
Base Current (A)	15~300	15~350
Pulse Width (%) / Cold Welding Time (ms)	1~99 / 1~800	
Pulse Frequency (Hz) / Cold Welding Interval Time (s)	0.2~10 / 0.1~5	
Down-slope Time (S)	0~10	
Crater Current (A)	15~300	15~350
Post-flow Time (s)	1~10	
Hot Start Current (A)(MMA)	0~100	
Arc Force Current (A) (MMA)	0~50	
Hot Start Time (s) (MMA)	0.1~5	
Efficiency (Under Rated Conditions)	≥80%	
Insulation Class	F	
Enclosure Protection Class	IP21S	
Weight (kg)	18.2	18.7

TIG WELDING

IGBT Inverter DC Pulse TIG Welder

WSM-400I

Dimensions (L×W×H): 566×292×547 mm



WSM-500I

Dimensions (L×W×H): 580×330×580 mm



Features & Applications

- Fast arc starting, high efficiency, 100% arc ignition success rate.
- Fast welding speed, excellent weld quality, attractive bead appearance, good crack resistance and low distortion.
- Adopts current-mode PWM control technology, featuring fast dynamic response, constant current output and stable welding current.
- Features multiple welding modes: MMA, TIG and Pulse TIG.
- Compatible with various electrodes including acidic, basic, cellulosic and heat-resistant steel electrodes.

Technical Specifications	WSM-400I	WSM-500I
Rated Input Voltage (V)	3-380V	3-380V
Power Frequency (Hz)	50/60	50/60
Rated Input Current (A)	21(TIG) / 19.5(MMA)	31.5(TIG) / 29.5(MMA)
Rated Input Capacity (kVA)	13.8(TIG) / 12.8(MMA)	20.7(TIG) / 19.4(MMA)
Rated Open-circuit Voltage (V)	66	66
Rated Duty Cycle (%) (40°C)	60% (TIG) / 60% (MMA)	60% (TIG) / 100% (MMA)
Pre-flow Time (s)	0-25	0-25
Start Current (A)	15-400	15-500
Up-slope Time (S)	0~10	0~10
Welding Current (A)	TIG:15~400 / MMA:15-315	TIG:15~500 / MMA:15-400
Peak Current (A)	15-400	15-500
Base Current (A)	15-400	15-500
Pulse Width (%)	1~99	1~99
Pulse Frequency (Hz)	0.2 ~ 10	0.2 ~ 10
Down-slope Time (S)	0-10	0-10
Crater Current (A)	15-400	15-500
Post-flow Time (s)	1~99	1~99
Insulation Class	F	F
Enclosure Protection Class	IP21S	IP21S
Weight (kg)	31.7	33.5

TIG WELDING

IGBT Inverter DC Pulse TIG Welder

WSM-400Z

Dimensions (L×W×H): 540×300×550 mm



Features & Applications

- Equipped with automatic wire feeder for TIG welding.
- Fast arc starting, high efficiency, 100% arc ignition success rate.
- Fast welding speed, excellent weld quality, attractive bead appearance, good crack resistance and low distortion.
- Adopts current-mode PWM control with fast dynamic response, constant current output and stable welding current.
- Features (Pulse) TIG and MMA welding modes.
- Features analog and digital communication for robotic automatic welding.



Technical Specifications	WSM-400Z
Rated Input Voltage (V)	3-380V
Power Frequency (Hz)	50/60
Rated Input Current (A)	19.7(TIG) / 19(MMA)
Rated Input Capacity (MMA) (kVA)	12.5(MMA)
Rated Input Capacity (TIG) (kVA)	13(TIG)
Rated Open-circuit Voltage (V)	81
Rated Duty Cycle (%) (40°C)	60% (TIG) / 60% (MMA)
Pre-flow Time (s)	0~3.0
Start Current (A)	10~400
Up-slope Time (S)	0~10
Welding Current (MMA) (A)	TIG:10~400
Welding Current (TIG) (A)	MMA:15-315
Peak Current (A)	10-400
Pulse Width (%)	1~99
Pulse Frequency (Hz)	0.2 ~ 35
Down-slope Time (S)	0~10
Crater Current (A)	10~400
Post-flow Time (s)	1~10
Insulation Class	F
Enclosure Protection Class	IP21S
Weight (kg)	36.2

TIG WELDING

IGBT Inverter DC Pulse TIG Welder

WSE-200

Dimensions (L×W×H): 530×250×430 mm



WSE-315 / 400

Dimensions (L×W×H): 580×330×580 mm



Features & Applications

- Fast arc initiation, high efficiency, 100% success rate.
- Fast welding speed, superior weld quality, bright white bead finish and excellent atomization effect.

  Adopts current-mode PWM control technology with fast dynamic response, constant current output and stable welding current.
- Features MMA welding, pulsed AC/DC TIG welding modes.
- Compatible with various electrodes including acidic, basic, cellulosic and heat-resistant steel electrodes.
- Simple adjustment mode for simplified panel operation.
- Model WSE-315/400 comes with remote control function, compatible with foot pedal and remote control box.
- Model WSE-315/400 supports two AC output waveforms: triangular wave and square wave.
- Model WSE-315/400 features two arc ignition modes: High-frequency Arc Start and Lift Arc Start.

Technical Specifications	WSE-200	WSE-315	WSE-400
Rated Input Voltage (V)	1~220V	3~380V	
Power Frequency (Hz)		50/60Hz	
Max Rated Input Current (A)	AC：31 / DC:27/ MMA:29	AC：20 / DC:19 / MMA:20	AC：27 / DC:24 / MMA:23
Max Rated Input Capacity (kVA)	6.8	13.1	17 .8
Open Circuit Voltage (V)	60V	72V	
Pulse Frequency (Hz)	0.2～10		
Pulse Duty Cycle (%)	1 ～99		
AC Frequency (Hz)	20 ～120		
AC Cleaning Width (%)	-20 ～+20		
AC Cleaning Amplitude (%)	–		
Welding Current (A)	DC15～200 / AC30～200 MMA15～160	DC15～300 / AC30～300 MMA15～250	DC15～350 / AC30～350 MMA15～280
Current Ramp-up Time (s)	0 ～10		
Current Down-slope Time (s)	0 ～10		
Pre-flow Time (s)	0 ～ 0.5		
Post-flow Time (s)	1～10		
Rated Duty Cycle (%)	AC：30% DC:30% MMA:30%	AC：30% DC:30% MMA:60%	AC：30% DC:30% MMA:50%
Efficiency (Under Rated Conditions)	≥0.85		
Enclosure Protection Class	IP21S		
Cooling Method	Forced Air Cooling	Air-cooled / Water-cooled	
Weight (kg)	22	36.5	

Gas Shielded Welding Inverter MIG Welder

NB-280

Dimensions (L×W×H): 405×185×305 mm



Features & Applications

- Features gasless self-shielded welding, manual welding and scratch-start TIG welding.
- IGBT full-bridge topology, high output current and lightweight body.
- Features synergic adjustment.
- Features output polarity reversal for gasless self-shielded flux-cored wire welding.
- Features overcurrent and overheat protection.

Technical Specifications	NB-280
Rated Input Voltage (V)	1~220V
Power Frequency (Hz)	50/60
Rated Max Input Current (A)	MIG: 25 / MMA: 27
Rated Input Capacity (kVA)	MIG: 5.5 / MMA: 6
Wire Feed Speed Range (m/min)	2-11
Rated Output Current Range (A)	MIG:50-160 / MMA: 50-140
Rated Output Voltage Range (V)	MIG: 16.5-22 / MMA: 22-25.6
Open Circuit Voltage (V)	52
Rated Duty Cycle (%)	15
Applicable Wire Diameter (mm)	Φ0.8 / Φ1.0
Enclosure Protection Class	F
Insulation Class	IP21S
Weight (kg)	6.9

MIG/MAG WELDING

Gas Shielded Welding Inverter MIG Welder

NB-250 (All-in-one)

Dimensions (L×W×H): 465×243×502 mm



NB-270 (All-in-one)

Dimensions (L×W×H): 465×243×502 mm



Features & Applications

- High-speed spot welding.
- Wide matching range of welding voltage and current, easy to adjust.
- Stable metal transfer at low current with thin wire, producing attractive and well-formed weld beads.
- Adopts high-speed feedback circuit, strong anti-interference and anti-grid-fluctuation capability for stable welding performance.
- Features thermal protection. When exceeding the duty cycle limit, the welder automatically stops welding with alarm indication.
- Combines gas-shielded welding and stick welding in one unit for multi-purpose use and easy operation. Suitable for solid wire of 0.8/1.0 mm diameter.



Technical Specifications	NB-250 (All-in-one)	NB-270 (All-in-one)
Rated Input Voltage (V)	1~220V	3~380V
Power Frequency (Hz)	50/60	
Rated Max. Input Current (A)	60	24
Rated Input Capacity (kVA)	13.2	15.8
Wire Feed Speed Range (m/min)	0.8.24m	
MIG Output Current Range (A)	50~200	50~270
MIG Output Voltage Range (V)	16.5~24	16.5~27.5
Open Circuit Voltage (V)	61	55
ARC Output Current Range (A)	45~160	50~220
ARC Output Voltage Range (V)	21.8~26.4	22~28.8
MIG Duty Cycle (%)	25%	30%
ARC Duty Cycle (%)	30%	60%
Applicable Wire Diameter (mm)	Φ0.8/Φ1.0	
Enclosure Protection Class	IP21S	
Insulation Class	F	
Weight (kg)	15.2	21

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Gas Shielded Welding Inverter MIG Welder

NB-315S (All-in-one)

Dimensions (L×W×H): 465×243×502 mm



Features & Applications

- Features automatic input voltage recognition, compatible with single-phase 220V / 380V power supply.
- Adopts current-mode PWM control with constant voltage output. Wide matching range of welding current and voltage for simple adjustment.
- Fast spot welding speed with full and smooth weld beads.
- Stable transfer frequency for thin wire at low current, delivering smooth and aesthetic weld beads.
- Features inductance adjustment to modify arc output characteristics for different welding requirements.
- Features overheat and overcurrent protection for high reliability.
- Integrated gas shielded welding and stick welding, multi-purpose and easy to operate.
- Suitable for 0.8 / 1.0 mm solid welding wires.



Technical Specifications	NB-315S (All-in-one)	
Rated Input Voltage (V)	1~220V	1~380V
Power Frequency (Hz)	50/60	
Number of Phases	1	
Rated Input Current (A)	36(MIG) / 31(MMA)	30(MIG) / 28(MMA)
Rated Input Capacity (kVA)	7.9(MIG) / 6.8(MMA)	11.4(MIG) / 10.6(MMA)
Rated Duty Cycle (40°C)	60%	50%
Rated Open-circuit Voltage (V)	64	56
Rated Welding Current (A)	50~200(MIG) / 40~160(MMA)	50~250(MIG) / 50~220(MMA)
Rated Welding Voltage (V)	16.5~24(MIG)	16.5~26.5(MIG)
Wire Feed Speed Range (m/min)	0.8~24	
Applicable Wire Diameter (mm)	Φ0.8/Φ1.0	
Insulation Class	F	
Enclosure Protection Class	IP21S	
Cooling Method	Forced Air Cooling	
Weight (kg)	21	

MIG/MAG WELDING

Gas Shielded Welding Inverter MIG Welder

NB-350F

Dimensions (L×W×H): 530×250×430 mm



NB-500F

Dimensions (L×W×H): 571×283×486 mm



Features & Applications

- High-speed wire feeder motor enables fast wire feed speed.
- Fast arc initiation for spot welding with excellent weld formation.
- Adopts current-mode PWM control for fast dynamic response, constant current output and stable welding current & voltage.
- Overheat & overcurrent protection ensures high reliability.
- Live arc voltage readout for constant arc length tracking.
- Applicable solid wire: Ø1.0 / Ø1.2 mm

Technical Specifications	NB-350F	NB-500F
Rated Input Voltage (V)	3~380V	3~380V
Power Frequency (Hz)	50/60	50/60
Rated Max Input Current (A)	MMA:14.0 / MIG:26.0	MMA:17.5 / MIG:30
Rated Input Capacity (kVA)	MMA:9.2 / MIG:17.1	MMA:11.5 / MIG:19.7
Wire Feed Speed Range (m/min)	0.8~24m	0.8~18m
Rated Output Current Range (A)	MIG:60~350 / MMA:35~250	MIG:50~400 / MMA:25~300
Rated Output Voltage Range (V)	16~36	16~41
Open Circuit Voltage (V)	67	58
Rated Duty Cycle (%)	MIG:35% / MMA:60%	MIG:25% / MMA:100%
Applicable Wire Diameter (mm)	Φ1.2/Φ1.0	Φ1.2/Φ1.0
Enclosure Protection Class	IP21S	IP21S
Insulation Class	F	F
Weight (kg)	19.5	32

MIG/MAG WELDING

Gas Shielded Welding Inverter MIG Welder

NB-500

Dimensions (L×W×H): 570×306×563 mm

60 Duty Cycle: 60%



Features & Applications

- Current-mode PWM soft-switching control delivers rapid dynamic response, CV output and consistent welding performance.
- Imported components for core parts.
- Multiple welding modes including flux-cored, CO2 and MAG, to meet various welding requirements.
- Smooth short-circuit transfer, no wire jumping.
- Overheat & overcurrent protection ensures reliable operation.
- Slow wire feeding enables smooth arc initiation and prevents wire explosion.
- High-speed feed motor delivers rapid wire feeding.

Technical Specifications	NB-500
Rated Input Voltage (V)	3~380V
Power Frequency (Hz)	50/60
Rated Max Input Current (A)	38
Rated Input Capacity (kVA)	25
Wire Feed Speed Range (m/min)	0.8-20m
Rated Output Current Range (A)	50~500
Rated Output Voltage Range (V)	16.5~45
Open Circuit Voltage (V)	77
Crater Current Adjustment Range (A)	50~500
Crater Voltage Adjustment Range (V)	16.5~45
Applicable Welding Modes	Flux-cored, CO2, MAG
Rated Duty Cycle (%)	60%
Applicable Wire Diameter (mm)	Φ1.2/Φ1.6
Enclosure Protection Class	IP21S
Insulation Class	F
Weight (kg)	39.4

MIG/MAG WELDING

Gas Shielded Welding Inverter MIG Welder

NB-500I

Dimensions (L×W×H): 580×320×617 mm

10 100% Duty Cycle



NB-500IM

Dimensions (L×W×H): 580×320×617 mm

10 100% Duty Cycle



Features & Applications

- Rated Duty Cycle: 100%
- Adopts current-mode PWM soft-switching control, featuring fast dynamic response, constant voltage output, and stable welding current and voltage.
- Imported core components
- Multiple welding modes available: flux-cored, CO2 and MAG, catering to different welding requirements.
- Stable short-circuit transfer with no wire skipping.
- Overheat & overcurrent protection for reliable operation.
- Slow wire feeding for smooth arc initiation and no wire explosion.
- High-speed feed motor enables fast welding.
- With MMA Function
- Widely applied in bridges, construction machinery, petrochemicals and heavy steel fabrication.



Technical Specifications	NB-500I	NB-500IM
Rated Input Voltage (V)	3~380V	
Power Frequency (Hz)	50/60	
Rated Max Input Current (A)	40	MMA:40 / MIG:40
Rated Input Capacity (kVA)	26.3	MMA:26.3 / MIG:26.3
Wire Feed Speed Range (m/min)	0.8~20m	0.8-20m
Rated Output Current Range (A)	50~500	MMA:20~500 / MIG:50~500
Rated Output Voltage Range (V)	16.5~50	16.5~50
Open Circuit Voltage (V)	77	77
Crater Current Adjustment Range (A)	50~500	50~500
Crater Voltage Adjustment Range (V)	16.5~50	16.5~50
Applicable Welding Modes	Flux-cored, CO2, MAG	Flux-cored, CO2, MAG
Rated Duty Cycle (%)	100%	100%
Applicable Wire Diameter (mm)	Φ1.2/Φ1.6	
Enclosure Protection Class	IP21S	
Insulation Class	F	
Weight (kg)	49.7	49.7

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TIG WELDING

Argon Arc Welding Inverter DC TIG Welder

TIG-200A

Dimensions (L×W×H): 395×160×310 mm



Features & Applications

- Fast arc start, high efficiency, 100% ignition success rate.
- Superior instant arc start & CC performance for smooth, nice-looking welds.
- Proprietary inverter tech, 30% better efficiency than standard models.
- Small & light, perfect for field and overhead applications.
- Welds stainless steel, carbon steel, copper & other non-ferrous metals.



Technical Specifications	TIG-200A
Rated Input Voltage (V)	1~220V
Power Frequency (Hz)	50/60
Number of Phases	1
Rated Input Current (A)	27
Rated Input Capacity (kVA)	5.9
Open Circuit Voltage (V)	56
Welding Current (A)	10-180
Welding Voltage (V)	10.4-17.2
Rated Duty Cycle (%) (40°C)	30
Insulation Class	F
Enclosure Protection Class	IP21S
Cooling Method	Forced Air Cooling
Weight (kg)	8.0

TIG WELDING

Thyristor-controlled DC GTAW Welder

WS-200

Dimensions (L×W×H): 500×295×502 mm



Features & Applications

- Strong anti-interference capability, steady output current, extremely stable arc and easy operation.
- Wide continuous current adjustment range, suitable for spot welding.
- Rich functions, wide application range. Single-phase input power optional 220V/380V; supports conventional DC MMA welding and TIG welding.
- Stepless adjustment for gas post-flow time to meet customers' requirements.
- Suitable for thin plate welding of stainless steel, copper and carbon steel, high efficiency and energy saving.

Technical Specifications	WS-200
Rated Input Voltage (V)	1PH220 / 380
Power Frequency (Hz)	50 / 60
Rated Output Current (A)	46(220V) / 27(380V)
Rated Input Capacity (kVA)	10.1(220V) / 10.3(380V)
Open Circuit Voltage (V)	59
Rated Duty Cycle (40°C)	15
Welding Current (A)	10-155
Peak Current (A)	10-155
Base Current (A)	10-155
Base Time (s)	0.25-2.25
Post-flow Time (s)	2-10
Insulation Class	F
Enclosure Protection Class	IP21S
Weight (kg)	51.3

TIG WELDING

Inverter DC Pulse TIG Welder

WSM-630

Dimensions (L×W×H): 750×360×680 mm



Features & Applications

- Adopts PWM control technology with constant current output for stable welding current.
- The main transformer adopts advanced nano-amorphous material; key components are fully imported for high stability and energy saving.
- IGBT high-frequency soft-switching conversion, high efficiency.
- Excellent control and regulation performance, integrates TIG and MMA welding functions.
- Excellent high-frequency arc ignition achieves 100% arc starting rate to guarantee working efficiency.
- Stable arc at low current, excellent performance for thin plate welding.
- Unique pulse function with wide adjustable pulse frequency range.
- Strong tolerance to grid voltage fluctuation, up to +15% (industry standard: ±10%).
- Wide application range, suitable for welding stainless steel, carbon steel, alloy steel, copper, titanium, etc. Widely used in petrochemical, power construction, building construction, pipeline installation and general machinery manufacturing industries.



Special Note:

This series is equipped with Simple Welding Mode and Memory Function.

Main Features:

The digital display clearly shows and adjusts all parameters. Ready to use and easy to operate; suitable for welding many metals across a wide range of applications.

Technical Specifications	WSM-630
Rated Input Voltage (V)	3~380V
Power Frequency (Hz)	50/60
Rated Input Current (A)	51
Rated Input Capacity (kVA)	33.5
Open Circuit Voltage (V)	82
Pulse Frequency (Hz)	0.2-500(DC)
Pulse Duty Cycle (%)	1-99
Current Ramp-up Time (s)	0-15
Current Down-slope Time (s)	0-15
Pre-flow Time (s)	0~99.9
Post-flow Time (s)	0~99.9
Welding Current (A)	20~630
Rated Duty Cycle (%) (40°C)	80
Welding Thickness Range (mm)	0.3-18
Insulation Class	F
Enclosure Protection Class	IP21S
Weight (kg)	54.0

TIG WELDING

SCR DC Pulse TIG Welder

WSM-350P

Dimensions (L×W×H): 850×460×810 mm



WSM-500P

Dimensions (L×W×H): 850×460×810 mm



Features & Applications

- Supports DC TIG, DC Pulse TIG and conventional MMA welding.
- Built-in high-frequency arc striking, ultra-high arc starting success rate even at low current.
- Smooth and stable welding current for uniform and attractive weld bead appearance.
- Adjustable pulse current and pulse frequency to control weld width, penetration and ripple count.
- Arc starts at preset initial current to avoid burn-through on thin sheets; stops at preset crater current to prevent craters and welding cracks.
- Suitable for welding stainless steel, carbon steel, copper, titanium and other metals.

Technical Specifications	WSM-350P	WSM-500P
Rated Input Voltage (V)	3PH380	3PH380
Power Frequency (Hz)	50/60	50/60
Rated Input Capacity (kVA)	18.4	30
Rated Input Current (A)	28	44
Open Circuit Voltage (V)	54	66
Welding Voltage (V)	10.8-23.4	10.8-28
Welding Current (A)	20-335	20-450
Pulse Current (A)	20-335	20-450
Base Current (A)	20-335	20-450
Crater Current (A)	20-335	20-450
Peak Time (s)	0.03-1.5	0.03-1.5
Pulse Base Time (s)	0.05-2.5	0.05-2.5
Rated Duty Cycle (40°C)	30	30
Current Ramp-up Time (s)	0.1-5	0.1-5
Current Ramp-down Time (s)	0.1-5	0.1-5
Spot Weld Time (S)	0.2-5	0.2-5
Pre-flow Time (s)	0.2	0.2
Post-flow Time (s)	0-10	0-10
Welding Thickness Range (mm)	0.3-10	0.3-14
Insulation Class	F	F
Enclosure Protection Class	IP21S	IP21S
Weight (kg)	135.0	182.0

Pick Fenghuo, Business Blazes

TIG WELDING

Inverter AC/DC Pulse TIG Welder

WSE-400

Dimensions (L×W×H): 700×355×600 mm



WSE-500

Dimensions (L×W×H): 675×360×885 mm



Features & Applications

- Adopts current-mode PWM control and fully digital program control, constant current output for stable welding current.
- IGBT high-frequency switching conversion, high efficiency, excellent controllability, multi-function, easy operation.
- Multiple protection functions; automatically stops welding and triggers alarm on abnormal power supply or overload duty cycle.
- Strong grid fluctuation tolerance up to 15% (industry requirement: 10%).
- Built-in high-frequency arc striking, easy arc starting.
- With pulse welding function, wide adjustable pulse frequency range.
- Adjustable cleaning effect with wide setting range.
- Features Pre-flow and Post-flow gas control.
- Stable arc at low current, excellent performance for thin sheet welding. High power and sufficient current deliver deep penetration.
- Wide application range, suitable for welding stainless steel, aluminum, carbon steel, alloy steel, copper, titanium, etc. Widely used in petrochemical, power construction, building construction, pipeline installation and general machinery manufacturing.



Fully digital control, adjustable pre-flow, post-flow, ramp-up and ramp-down time; wide application range, attractive weld formation.

Technical Specifications	WSE-400	WSE-500
Rated Input Voltage (V)	3PH380	3PH380
Power Frequency (Hz)	50/60	50/60
Rated Input Current (A)	27	38
Rated Input Capacity (kVA)	17.8	25
External Fuse Rating (A)	40	60
Open Circuit Voltage (V)	81	61
Pulse Frequency (Hz)	0.2-500(DC),0.2-20(AC)	0.2-500(DC),0.2-20(AC)
Pulse Duty Cycle (%)	1~99	1~99
AC Frequency (Hz)	20~150	20~150
AC Cleaning Width (%)	-40~+40	-40~+40
AC Cleaning Amplitude (%)	-20~+20	-20~+20
Welding Current (A)	15-400	15-500
Current Ramp-up Time (s)	0~15	0~15
Current Down-slope Time (s)	0~15	0~15
Pre-flow Time (s)	0~99.9	0~99.9
Post-flow Time (s)	0~99.9	0~99.9
Rated Duty Cycle (%) (40°C)	60	55
Efficiency (Under Rated Conditions)	≧0.80	≧0.80
Insulation Class	F	F
Enclosure Protection Class	IP21S	IP21S
Weight (kg)	59.0	82.0

TIG WELDING

Thyristor AC/DC Pulse TIG Welder

WSE-250

Dimensions (L×W×H): 765×415×780 mm



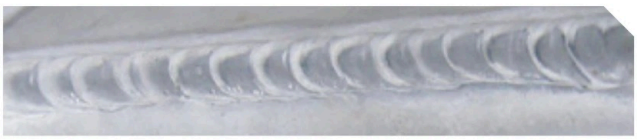
WSE-350/500

Dimensions (L×W×H): 810×460×815 mm



Features & Applications

- AC/DC TIG, AC/DC Pulse TIG, AC/DC MMA and AC/DC spot welding functions available.
- Minimum welding current starts at 10A, excellent arc stability for thin, medium and thick plates.
- In AC mode, it delivers drooping output characteristic with fast zero-crossing square wave for stable current and arc.
- Stepless adjustment for pulse current, base time, cleaning zone and post-flow time, to meet high welding process requirements.
- Features current ramp-up and ramp-down functions, helping fill the crater and prevent cracks at arc termination.
- Pulse TIG for stainless steel, copper, titanium, carbon steel, etc. AC TIG for aluminum and aluminum alloys.



Technical Specifications	WSE-250	WSE-350	WSE-500
Rated Input Voltage (V)	1PH380	1PH380	1PH380
Power Frequency (Hz)	50/60	50/60	50/60
Rated Input Capacity (kVA)	16.3	25	36.8
Rated Input Current (A)	43	65	97
Current Adjustment Range (A)	10-230	20-320	20-450
Open Circuit Voltage (V)	AC:57 DC:28	AC:60 DC:30	AC:66 DC:32
Peak Current (A)	10-230	20-320	20-450
Base Current (A)	10-230	20-320	20-450
Pulse Time (s)	0.1-1.5	0.1-1.5	0.1-1.5
Base Time (s)	0.1-2.5	0.1-2.5	0.1-2.5
Current Ramp-up Time (s)	0.1-5	0.1-5	0.1-5
Current Ramp-down Time (s)	0.1-5	0.1-5	0.1-5
Rated Duty Cycle (%) (40°C)	30	30	30
Welding Thickness Range (mm)	0.3-7	0.3-10	0.3-14
Insulation Class	F	F	F
Enclosure Protection Class	IP21S	IP21S	IP21S
Weight (kg)	150.0	174.0	205.0

Pick Fenghuo, Business Blazes

MIG/MAG WELDING

Gas Shielded Welding Tap-type MIG/MAG Welder

NBC-270/350 (All-in-one)

Dimensions (L×W×H): 685×370×645 mm



Features & Applications

- High efficiency boosts productivity several times compared with MMA welding. Significant power saving and low operating cost.
- Manufactured with advanced processes, reliable performance and strong overload capacity.
- Advanced speed control circuit for wire feeder ensures stable wire feeding, fast welding speed and excellent arc stability.
- Low spatter, minimal distortion and nice weld bead appearance.
- Main circuit uses multi-diode rectifier bridge assembly, strong overload capacity and stable & reliable performance.
- Suitable for welding thin, medium and thick low & medium carbon steel ≥0.8mm.

NBC-270/350 (Separate Type)

Dimensions (L×W×H): 685×370×645 mm





Technical Specifications	NBC-270	NBC-350
Rated Input Voltage (V)	3PH380	3PH380
Power Frequency (Hz)	50/60	50/60
Rated Input Current (A)	16	26
Rated Input Capacity (kVA)	10.5	17.1
Open Circuit Voltage (V)	19-36	19~42
Rated Duty Cycle (40°C)	25	25
Welding Current Range (A)	55~270	55~315
Welding Voltage Range (V)	16.8~27.5	16.8~29.8
Intermittent Welding Interval Time (s)	1~9	1~9
Spot / Intermittent Interval Time (s)	1~9	1~9
Wire Feed Speed (m/min)	1-18	1~24
Enclosure Protection Class	IP21S	IP21S
Insulation Class	F	F
Weight (kg)	74 / 71	92 / 88
Remarks	All-in-one / Separate Type	All-in-one / Separate Type

MIG/MAG WELDING

Gas Shielded Welding Thyristor MIG/MAG Welder

NBC-350R

Dimensions (L×W×H): 580×320×617 mm



NBC-500R/630R

Dimensions (L×W×H): 840×460×810 mm

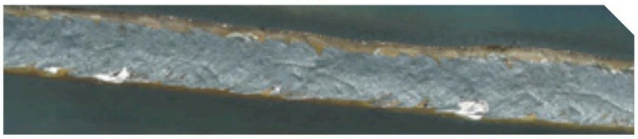
MMA Function



Features & Applications

- Switchable between individual adjustment & synergic control for current and voltage, easy operation for both new and skilled welders.
- Latch crater control function reduces operator fatigue and enables easy control of end bead formation for optimal welding results.
- Initial setup function enables easy control of arc start and end bead formation to meet special process requirements.
- Anti-ball (FIT) function automatically removes the wire ball at arc end for reliable re-striking.
- Overload protection available.
- Compatible with solid & flux-cored wires for carbon steel, stainless steel, aluminum, magnesium and their alloys.

★ This series features stable, reliable and outstanding performance, specified for purchase by many large industrial users.



Technical Specifications	NBC-350R	NBC-500R (MMA)	NBC-630R (MMA)
Rated Input Voltage (V)	3PH380	3PH380	3PH380
Power Frequency (Hz)	50/60	50/60	50/60
Rated Input Current (A)	27.6	48.4	69
Rated Input Capacity (kVA)	18.1	31.9	45.4
Open Circuit Voltage (V)	52	64	74
Output Current Range (A)	60-350	60-500	60-630
Output Voltage Range (V)	17-31.5	17-39	17-44
Rated Duty Cycle (%) (40°C)	30	30	30
Applicable Wire Diameter (mm)	0.8/1.0/1.2	1.2/1.4/1.6	1.2/1.4/1.6
Applicable Wire Type	Solid Wire / Flux-cored Wire	Solid Wire / Flux-cored Wire	Solid Wire / Flux-cored Wire
Welding Process	Individual / Synergic	Individual / Synergic	Individual / Synergic
Applicable Plate Thickness (mm)	2-12	2-50	2-50
Enclosure Protection Class	IP21S	IP21S	IP21S
Insulation Class	F	F	F
Weight (kg)	132.0	172.0	220.0

Inverter Plasma Cutter (Built-in Pump)

LGK-80SN (Dual Voltage)

Dimensions (L×W×H): 510×320×508 mm



Features & Applications

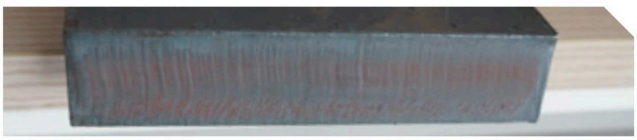
- Adopts PWM peak current control technology for constant current output and stable cutting current.
- Main transformer core: high permeability, low loss and excellent thermal stability.
- Built-in air compressor with all-copper motor, high power and stable operation.
- Post-flow time adjustable.
- Concentrated energy, fast cutting speed, clean cut surface and minimal distortion.
- Multiple protection functions built-in, high reliability and easy adjustment.
- Compact, lightweight body for easy mobility.
- Suitable for mild steel, stainless steel, aluminum, lead, titanium, nickel composites, cast iron and most other materials.

LGK-100N/12ON (With MMA Function)

Dimensions (L×W×H): 590×370×618 mm



Key features: No external air supply required, easy to carry.



Technical Specifications	LGK-80SN	LGK-100N	LGK-120N
Power Supply Voltage (V)	1PH220V / 1PH380V	3PH380	3PH380
Rated Frequency (Hz)	50/60HZ	50 / 60HZ	50 / 60HZ
Number of Phases	1	3	3
Rated Input Current (A)	AC220:40 / AC380:27	LGK:22.2 / MMA:14	LGK:28.4 / MMA:14
Rated Input Power (kW)	AC220V:8.8 / AC380V:10.3	LGK:14.6 / MMA:9.2	LGK:18.7 / MMA:9.2
Open Circuit Voltage (V)	220V:330V / 380V:295V	LGK:310V / MMA:70V	LGK:346V / MMA:70V
Rated Load Voltage (V)	90~102	LGK:90~112 / MMA:21.6~28	LGK:90~120/ MMA:21.6~28
Current Adjustment Range (A)	25~55	LGK:25~80 / MMA:40~200	LGK:25~100 / MMA:40~200
Duty Cycle (%)	60%(40°C)	LGK:40% / MMA:100% (40°C)	LGK:40% / MMA:100% (40°C)
Working Air Pressure Range (MPa)	0.4~0.5	0.4~0.5	0.4~0.5
Max. Cutting Thickness (Mild Steel)	External Air: 25mm / Built-in Air: 20mm	External Air: 35mm / Built-in Air: 35mm	External Air: 40mm / Built-in Air: 40mm
Quality Cut Thickness (Mild Steel)	External Air: 12 mm / Built-in Air: 10 mm	External Air: 16mm / Built-in Air: 16mm	External Air: 20mm / Built-in Air: 20mm
Arc Starting Method	High Frequency	High Frequency	High Frequency
Enclosure Protection Class	IP21S	IP21S	IP21S
Weight (kg)	29.2	41.8	49

Inverter Air Plasma Cutter

LGK-120

Dimensions (L×W×H): 590×326×618 mm



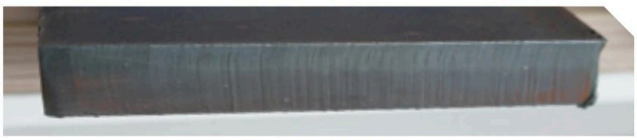
LGK-160

Dimensions (L×W×H): 590×326×618 mm



Features & Applications

- Adopts PWM control technology, fast dynamic response, constant current output and stable current.
- Adopts modular design with IGBT & fast recovery diodes, sufficient output power and high stability.
- Strong cutting capacity, narrow kerf, clean cut surface, low distortion, minimal dross and good cutting quality.
- Contact / Non-contact dual mode, suitable for cutting in various positions & shapes. High-frequency non-contact arc start, high ignition efficiency and less nozzle damage.
- 2T / 4T trigger mode available.
- With CNC remote control port: Arc voltage output signal & arc success signal.
- With overheat protection & phase loss protection, high reliability.
- Capable of cutting mild steel, stainless steel, aluminum, widely used in steel structure, construction, manufacturing and other industries.



Technical Specifications	LGK-120	LGK-160
Power Supply Voltage (V)	3PH380	
Rated Frequency (Hz)	50/60	
Number of Phases	3	
Rated Input Current (A)	34	47
Rated Input Capacity (kVA)	22.4	30.9
Open Circuit Voltage (V)	310	308
Rated Load Voltage (V)	90~128	90~144
Current Adjustment Range (A)	25~120	25~160
Duty Cycle (%)	60%(40°C)	
Recommended Working Air Pressure Range (MPa)	0.4~0.6	
Max. Cutting Thickness (Mild Steel)	45mm	55mm
Quality Cut Thickness (Mild Steel)	≤ 25mm	≤ 30mm
Arc Starting Method	High Frequency High Frequency	
Enclosure Protection Class	IP21S	
Weight (kg)	38.7	48

Inverter Air Plasma Cutter

LGK-120D (100% Duty Cycle)

Dimensions (L×W×H): 660×310×550 mm



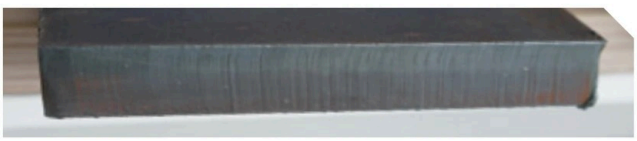
Main Features: Digital control & programmable parameters; flexible adjustment of pre-air and post-gas delay time. 100% duty cycle, supports long-duration cutting, compatible with automatic cutting machines.



Features & Applications

- (Duty Cycle 100%)
- Main transformer: advanced nano amorphous core; IGBT and other key parts imported, high stability & energy efficient.
- Narrow kerf, clean cut, no workpiece deformation, high plate utilization; capable of cutting any shape at all positions.
- Complete functions, large cutting capacity; compatible with non-HF and HF torches. HF pilot arc ignition with standard HF cutting torch, obtains low-frequency torch striking performance, ultra-high arc striking success rate.
- Full protection functions; built-in standard control interface for automatic cutting systems.
- Cuts stainless steel, carbon steel, copper, aluminum and other metal plates.
- Suitable for mild steel, stainless steel, aluminum, lead, titanium, nickel-clad metals, cast iron and almost all metal plates & tubes; widely applied in steel structure, manufacturing and auto repair.

Ideal for automated cutting scenarios; ensures continuous arc performance for mesh workpieces.



Technical Specifications	LGK-120D
Rated Input Voltage (V)	3PH380
Power Frequency (Hz)	50/60
Rated Input Current (A)	36
Rated Input Capacity (kVA)	23.7
Open Circuit Voltage (V)	310
Cutting Current (A)	25-120
Rated Duty Cycle (40°C)	100
Optimal Cutting Thickness (Mild Steel /mm)	3-35
Optimal Cutting Thickness (Stainless Steel / mm)	3-35
Optimal Cutting Thickness (Aluminum / mm)	3-25
Maximum Cutting Thickness (mm)	45
Insulation Class	F
Enclosure Protection Class	IP21S
Weight (kg)	44.7

Alpha WSM

Inverter DC Pulse TIG Welder

DIGITAL SERIES
NEW CLASSIC SERIES
CLASSIC SERIES
NEW INDUSTRIAL SERIES
HANDHELD LASER SERIES

Alpha WSM 400/500

Dimensions (L×W×H): 650×330×995 mm



Features & Applications

- Adopts IGBT module full-bridge topology inverter and current-mode PWM control, constant current output for stable welding current.
- Quick arc ignition, high efficiency, 100% arc striking success.
- Fast welding speed, good welding quality, attractive weld bead, excellent crack resistance and minimal deformation.
- Supports various welding modes: MMA, TIG and Pulse TIG.
- Built-in multi-protection including overheat and torch switch fault protection for high reliability.
- With remote control, foot pedal switch support, CNC compatibility, and standard interfaces for automatic welding.
- Intelligent energy-saving control for cooling fan.
- Memory & recall function; stores up to 10 welding job sets.
- Hot start current for better arc striking with cold electrodes.
- Arc force current for different electrode welding requirements.
- VRD and electrode anti-stick functions.
- Wide application range; welds stainless steel, carbon steel, copper, titanium and more. Extensively applied in petrochemical, power construction, pipeline installation and machinery manufacturing.

Technical Specifications	Alpha WSM 400	Alpha WSM 500
Rated Input Voltage (V)	3PH380	3PH380
Power Frequency (Hz)	50/60	50/60
Rated Input Current (A)	27	37.5
Rated Input Capacity (kVA)	17.8	24.7
Open Circuit Voltage (V)	80	80
Pulse Frequency (Hz)	0.2-500	0.2-500
Pulse Duty Cycle (%)	1 -99	1 -99
Current Up-slope Time (s)	0-15	0-15
Current Down-slope Time (s)	0-15	0-15
Pre-flow Time (s)	0-99.9	0-99.9
Post-flow Time (s)	0-99.9	0-99.9
Welding Current (A)	15~400	15~500
Rated Duty Cycle (%) (40°C)	60	60
Welding Thickness Range (mm)	0.3-12	0.3-14
Insulation Class	F	F
Enclosure Protection Class	IP23S	IP23S
Weight (kg)	47	49

Alpha WSE

Inverter AC/DC Pulse TIG Welder

Alpha WSE 400/500

Dimensions (L×W×H): 740×330×1040 mm



Features & Applications

- IGBT module full-bridge topology inverter, current-mode PWM control, constant current output for stable welding current.
- Quick arc striking, high efficiency, 100% arc striking success rate.
- Fast welding speed, good welding quality, bright white weld bead and great atomization performance.
- Supports various welding modes: MMA, TIG and Pulse TIG.
- Built-in multi-protection such as overheat and torch switch fault protection for high welding reliability.
- With remote control function, supports foot pedal switch, compatible with CNC equipment and comes with standard interfaces for automatic welding.
- Intelligent energy-saving control for cooling fan.
- Memory and recall function; stores up to 10 welding job sets.
- Hot start current for better arc striking with cold electrodes.
- Adjustable arc force current to satisfy welding demands of various electrodes.
- VRD and electrode anti-stick functions.
- Wide application range; welds stainless steel, carbon steel, copper, titanium, aluminum alloy and more. Extensively applied in petrochemical, power construction, pipeline installation and machinery manufacturing.

Technical Specifications	Alpha WSE 400	Alpha WSE 500
Rated Input Voltage (V)	3PH380V	3PH380V
Power Frequency (Hz)	50/60	50/60
Rated Input Current (A)	27	37
Rated Input Capacity (kVA)	17.8	24.4
Open Circuit Voltage (V)	DC TIG 80 / AC TIG 80 / MMA 80	DC TIG 62 / AC TIG 75 / MMA 62
Pulse Frequency (Hz)	0.2-500(DC) / 20-150(AC)	0.2-500(DC) / 20-150(AC)
Pulse Duty Cycle (%)	1~99	1~99
AC Frequency (Hz)	20~100	20~100
AC Cleaning Width (%)	-40~+40	-40~+40
AC Cleaning Amplitude (%)	-20~+20	-20~+20
Welding Current (A)	15-400	15-500
Current Ramp-up Time (s)	0~15	0~15
Current Down-slope Time (s)	0~15	0~15
Pre-flow Time (s)	0~99.9	0~99.9
Post-flow Time (s)	0~99.9	0~99.9
Rated Duty Cycle (%) @ 40°C	DC-TIG 40 / AC-TIG 35 / MMA 30	DC-TIG 45 / AC-TIG 35 / MMA 30
Insulation Class	F	F
Enclosure Protection Class	IP23S	IP23S
Weight (kg)	68	90

Delta NB

Inverter Dual-Pulse MIG Welder

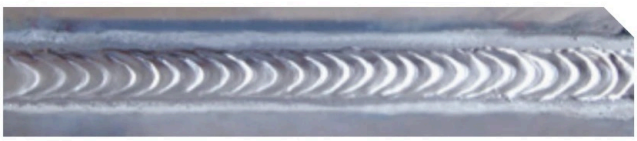
Delta NB400W/500W

Dimensions (L×W×H): 1000×420×1390 mm



Features & Applications

- Spatter-free on carbon steel, low-spatter welding for aluminum and aluminum alloy.
- Fast penetration & bead formation, low distortion on welded workpieces.
- Under dual-pulse mode, easy fish-scale bead formation without torch weaving.
- Freely adjustable arc length, adaptable to different welders' skills and viewing angles.
- Welding efficiency for aluminum & aluminum alloy is more than 5 times that of traditional TIG welders.
- It reduces the requirement for welding skills, so welders can master it easily.
- Boosted production efficiency and reduced production costs.



Technical Specifications	Delta NB400W	Delta NB500W
Power Supply Voltage (V)	3PH380	3PH380
Power Supply Voltage Range (V)	±10%	±10%
Power Frequency (Hz)	50/60	50/60
Rated Input Current (A)	28	42
Rated Input Capacity (kVA)	18	27
External Fuse Rating (A)	40	60
Open Circuit Voltage (V)	64	68
Rated Duty Cycle (%) @ 40°C	60	60
Welding Current Range (A)	50-400	50-500
Wire Feed Speed Range (m/min)	1.3-22	1.3-22
Applicable Wire Diameter Range (mm)	0.8-1.0-1.2	0.8-1.0-1.2-1.6
Max. Wire Spool Weight (kg)	25	25
Power Factor (cosφ)	0.92	0.92
Efficiency (Under Rated Conditions)	0.87	0.88
Enclosure Protection Class	IP23S	IP23S
Insulation Class	F	F
Weight (kg)	78	80

FH

Air-cooled Handheld Laser Welder

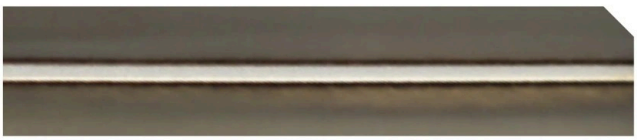
FH 800/1200

Dimensions (L×W×H): 565×255×585 mm



Features & Applications

- No circulating water, antifreeze or related maintenance costs, portable and plug-and-weld.
- Simple operation, easy to get started.
- Stable welding performance, uniform, solid and nice-looking weld beads.
- Low-noise operation for better working environment.
- Low heat input, minimal distortion for thin workpieces.
- Supports selectable functions: welding, rust removal, cleaning and cutting.
- Fast welding speed, 2-10 times quicker than traditional welding.
- Compatible with multiple materials: stainless steel, iron, copper, aluminum and more.



Technical Specifications	FH 800	FH 1200
Rated Input Voltage / Phase (V / Ph)	Single Phase 220V	Single Phase 220V
Laser Power (W)	800	1200
Rated Input Current (A)	9.6	14.4
Rated Input Power (kW)	2	3
Torch Type	QBH	QBH
Fiber Length (m)	10	10
Cooling Method	Intelligent Air Cooling	Intelligent Air Cooling
Working Ambient Humidity (%)	20%-90%	20%-90%
Working Ambient Temperature (°C)	-10~40°C	-10~40°C
Main Power Protection Grade (IP)	IP21S	IP21S
Overall Dimension (approx., mm), excluding wire feeder	565*255*585	565*255*585
Torch Head Weight (kg)	0.65	0.65
Overall Weight (kg), excluding wire feeder	39.9	39.9

FH

Water-cooled Handheld Laser Welder

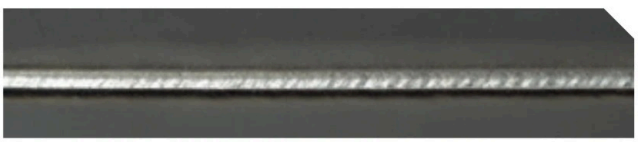
FH 1500/2000

Dimensions (L×W×H): 910×560×790 mm



Features & Applications

- Can be equipped with double-wire feeder for greater welding efficiency.
- Simple operation, easy to get started.
- Stable welding performance, uniform, solid and nice-looking weld beads.
- Low-noise operation for better working environment.
- High cooling efficiency, ideal for long-time heavy-load operation.
- Supports optional functions: welding, rust removal, cleaning and cutting.
- Fast welding speed, 2-10 times quicker than traditional welding.
- Compatible with various metals: stainless steel, iron, steel, aluminum and more.



Technical Specifications	FH 1500	FH 2000
Rated Input Voltage / Phase (V / Ph)	Single Phase 220VAC	Single Phase 220VAC
Laser Power (W)	1500	2000
Rated Input Current (A)	25.7	38.1
Rated Input Power (kW)	5.7	8.4
Torch Type	4-in-1: Rust Removal / Cleaning / Cutting / Welding	
Fiber Length (m)	10 m (8 m exposed)	
Cooling Method	Circulated Water-cooled	
Working Ambient Humidity	30% ≤ RH ≤ 85%	
Working Ambient Temperature (°C)	-10°C ~ 35°C; antifreeze ≤0°C; purified water >0°C	
Main Power Protection Grade (IP)	IP54	
Overall Dimension (approx., mm), excluding wire feeder	910×560×790	
Torch Head Weight (kg)	0.7	
Overall Weight (kg), excluding wire feeder	106	

FH

Water-cooled Handheld Laser Welder

FH 3000

Dimensions (L×W×H): 1202×630×900 mm



Features & Applications

- Can be equipped with double-wire feeder for greater welding efficiency.
- Simple operation, easy to get started.
- Stable welding performance, uniform, solid and nice-looking weld beads.
- Low-noise operation for a better working environment.
- High cooling efficiency, ideal for long-time heavy-load operation.
- Supports optional functions: welding, rust removal, cleaning and cutting.
- Fast welding speed, 2-10 times quicker than traditional welding.
- Compatible with multiple metals: stainless steel, iron, copper, aluminum and more.



Technical Specifications	FH 3000
Rated Input Voltage / Phase (V / Ph)	3-Phase 380VAC
Laser Power (W)	3000
Rated Input Current (A)	23
Rated Input Power (kW)	15.1
Torch Type	4-in-1: Rust Removal / Cleaning / Cutting / Welding
Fiber Length (m)	10m (8m exposed)
Cooling Method	Circulated Water-cooled
Working Ambient Humidity (%)	30% ≤ RH ≤ 85%
Working Ambient Temperature (°C)	-10°C ~ 35°C; antifreeze ≤ 0°C; purified water > 0°C
Main Power Protection Grade (IP)	IP54
Overall Dimension (approx., mm), excluding wire feeder	1202*630*900
Torch Head Weight (kg)	0.7
Overall Weight (kg), excluding wire feeder	150

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PRODUCT MANUAL

OFFICIAL WECHAT