WOWELD®

CATALOGUE

WELDING & CUTTING EQUIPMENTS

WELL-KNOWN PROFESSIONAL MANUFACTURER

Shenzhen Woweld Electric Co., Ltd.
www.woweldelectric.com

WOWELD®

Founded in 2014, **Shenzhen Woweld Electric Co., Ltd** is specialized in manufacturing inverter machine and cutting machines. Focus on research of leading inverter technology, we devote ourselves to manufacture the most environmental & favorable qualify equipment with advanced production devices and manage experience during the last 12 years.

Woweld has a strict quality control system and wide range of products cover the following categories: **Stick(MMA) Welders, MIG/MAG Welders, TIG Welders, Plasma Cutters, AC/DC TIG(stick) Welders** and various mutil functions welding and cutting equipment. Our machines have been sold to more than 30 oversea markets for the area of shipbuilding, railway, petroleum, chemical industry, pressure vessels, mining, electricity, steelwork, cars etc.

For the purposes of Mutual Benefit and Development, our company will keep and optimize management system, go on with high quality products and good services, and commits to provide overall welding solutions with the best products to you.

We hope to gain new Heights Together

Certificates

High and new technology enterprises

Quality Managment System

CONTENTS

MIG DC INVERTER WELDERS PORTABLE

WOWELD®

MIG 200GL

1 KG

MIG 200PM

5 KG, 1 KG

Alu welding

MIG 200
MIG 250

15 KG, 5 KG

Selection Guide by Welding Process and Welding Wire

Model	Input Voltage	Welding Process			Wire Type		Wire Diameter (mm)		
		MIG	MMA	Lift TIG	Solid Wire	Flux Cored	0.8	1.0	1.2
MIG 200GL	1ph~220V 50/60Hz	√	√			√	●	o	
MIG 200PM		√	√	√	√	√	●	●	o
MIG 200		√	√	√	√	√	●	●	o
MIG 250		√	√	√	√	√	●	●	o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.

Selection Guide by Thickness of Mild Steel and Welding Wire

Mild Steel Thickness (mm)	Welding Wire Diameter (mm)	Welding Current (A)	Wire Feed Speed (m/min)	MIG 200GL	MIG 200PM	MIG 200	MIG 250
0.9-2.0	0.8	45-65	2.3-3.2	*	*	*	*
2.0-3.0	0.8	60-125	2.9-4.5	●	*	*	*
3.0-6.0	1.0	95-160	3.8-5.1	o	*	*	*
6.0-10.0	1.2	135-200	3.3-5.0		●	●	●
10.0-12.0	1.2	210-330	5.0-8.1		○	o	o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
* The machine can weld continuously without overheating. The machine is too large if always weld under this condition.
Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

- Designed for MIG,MMA, Lift TIG welding
- CO2 gas MIG and Flux cored MIG (without CO2 gas) welding process, suitable for 1kg/5kg wire spool
- MIG200PM, Pulse MIG product, suitable for Alu welding

Model	:	MIG 200GL	MIG 200PM	MIG 200	MIG 250
Input Voltage	:	1PH~220V	1PH~220V	1PH~220V	1PH~220V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	20%	40%	40%(60%)	40%(60%)
Current Range	:	MIG=30~130A MMA=30~110A	MIG=30~200A MMA=30~160A	MIG=30~200A MMA=30~160A	MIG=30~250A MMA=30~200A
OCV	:	34V	56V/46V	46V	46V
Wire Diameter(mm)	:	0.8	0.8	0.8-1.2	0.8-1.2
Efficiency	:	0.85	0.85	0.85	0.85
Protection Grade	:	IP 21S	IP 21S	IP 21S	IP 21S
Net Weight	:	3.8KG	7.0KG	20.0KG	21.0KG
Dimension L*W*H	:	36*16*30CM	44*19*31CM	57*30*49CM	57*30*49CM

MIG DC INVERTER WELDERS

WOWELD®

MIG MMA-200F
MIG MMA-250F
MIG MMA-315F

MIG MMA-350F
MIG MMA-500F

Selection Guide by Welding Process and Welding Wire

Model	Input Voltage	Welding Process			Wire Type		Wire Diameter (mm)			
		MIG	MMA	Lift TIG	Solid Wire	Flux Cored	0.8	1.0	1.2	1.6
MIG MMA-200F	1ph~220V	√	√		√	√	●	●		
MIG MMA-250F		√	√		√	√	●	●	O	
MIG MMA-315F	3ph~380V	√	√		√	√	●	●	O	
MIG MMA-350F		√	√		√	√	●	●	O	
MIG MMA-500F		√	√		√	√	●	●	●	●

● The machine can weld continuously without overheating. (100% duty cycle)
O The machine should weld and rest according to the duty cycle to avoid overheating.

Selection Guide by Thickness of Mild Steel and Welding Wire

Mild Steel Thickness (mm)	Welding Wire Diameter (mm)	Welding Current (A)	Welding Voltage (V)	MIG MMA-200F	MIG MMA-250F	MIG MMA-315F	MIG MMA-350F	MIG MMA-500F
0.9-2.0	0.8	45-65	16-19	*	*	*	*	*
2.0-3.0	0.8	60-125	17-20	●	●	●	*	*
3.0-6.0	1.0	95-160	18-22	O	●	●	●	●
6.0-10.0	1.2	135-200	19-24	O	O	O	●	●
10.0-12.0	1.2	210-330	24-33				O	●
12.0-18.0	1.6	250-500	25-40					O

● The machine can weld continuously without overheating. (100% duty cycle)
O The machine should weld and rest according to the duty cycle to avoid overheating.
* The machine can weld continuously without overheating. The machine is too large if always weld under this condition.
Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

Model	:	MIG MMA-200F	MIG MMA-250F	MIG MMA-315F	MIG MMA-350F	MIG MMA-500F
Input Voltage	:	1PH~220V	1PH~220V	3PH~380V	3PH~380V	3PH~380V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%	60%
Current Range	:	MIG=40~200A MMA=20~160A	MIG=40~250A MMA=20~200A	MIG=40~300A MMA=20~240A	MIG=80~350A MMA=20~280A	MIG=100~500A MMA=20~400A
OCV	:	56V	56V	56V	56V	63V
Wire Diameter(mm)	:	0.8-1.0	0.8-1.0	0.8-1.2	0.8-1.2	0.8-1.6
Efficiency	:	0.85	0.85	0.85	0.85	0.85
Protection Grade	:	IP 23	IP 23	IP 23	IP 23	IP 23
Net Weight	:	20KG	23KG	25KG	28KG	32KG
Dimension L*W*H	:	49*22*40CM	49*22*40CM	49*22*40CM	57*30*49CM	57*30*49CM

MIG MMA-250DP

Alu welding
Double pulse MIG

MIG MMA-250
MIG MMA-300

MIG MMA-400

OEM available:
1ph 220V / 3ph 220V
3ph 220/380/440V

Selection Guide by Welding Process and Welding Wire

Model	Input Voltage	Welding Process			Wire Type		Wire Diameter (mm)			
		MIG	MMA	Lift TIG	Solid Wire	Flux Cored	0.8	1.0	1.2	1.6
MIG MMA-250DP	1ph~220V	√	√	√	√	√	●	●	o	
MIG MMA-250		√	√	√	√	√	●	●	o	
MIG MMA-300	3ph~380V	√	√	√	√	√	●	●	●	
MIG MMA-400		√	√	√	√	√	●	●	●	o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.

Selection Guide by Thickness of Mild Steel and Welding Wire

Mild Steel Thickness (mm)	Welding Wire Diameter (mm)	Welding Current (A)	Welding Voltage (V)	MIG MMA-250DP	MIG MMA-250	MIG MMA-300	MIG MMA-400
0.9-2.0	0.8	45-65	16-19	*	*	*	*
2.0-3.0	0.8	60-125	17-20	●	●	*	*
3.0-6.0	1.0	95-160	18-22	●	●	●	●
6.0-10.0	1.2	135-200	19-24	o	o	●	●
10.0-12.0	1.2	210-330	24-33			o	●
12.0-18.0	1.6	250-500	25-40				o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
* The machine can weld continuously without overheating. The machine is too large if always weld under this condition.
Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

Model	:	MIG MMA-250DP	MIG MMA-250	MIG MMA-300	MIG MMA-400
Input Voltage	:	1PH~220V	1PH~220V	3PH~380V	3PH~380V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%
Current Range	:	MIG=40~250A MMA=20~200A	MIG=40~250A MMA=20~200A	MIG=60~300A MMA=20~240A	MIG=80~400A MMA=20~320A
OCV	:	70V	56V	56V	56V
Wire Diameter(mm)	:	0.8-1.2	0.8-1.0	0.8-1.2	0.8-1.6
Efficiency	:	0.85	0.85	0.85	0.85
Protection Grade	:	IP 23	IP 23	IP 23	IP 23
Net Weight	:	40KG	43KG	50KG	56KG
Dimension L*W*H	:	85*43*70CM	85*43*70CM	90*45*72CM	90*49*72CM

MIG MMA-350S
MIG MMA-400S
MIG MMA-500S
MIG MMA-500DP

Alu welding
Double pulse MIG

OEM available:
1ph 220V / 3ph 220V
3ph 220/380/440V

Selection Guide by Welding Process and Welding Wire

Model	Input Voltage	Welding Process			Wire Type		Wire Diameter (mm)			
		MIG	MMA	Lift TIG	Solid Wire	Flux Cored	0.8	1.0	1.2	1.6
MIG MMA-350S	1ph/3ph~220V	√	√		√	√	●	●	o	
MIG MMA-400S	3ph~380V	√	√		√	√	●	●	●	o
MIG MMA-500S		√	√		√	√	●	●	●	o
MIG MMA-500DP		√	√		√	√	●	●	●	o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.

Selection Guide by Thickness of Mild Steel and Welding Wire

Mild Steel Thickness (mm)	Welding Wire Diameter (mm)	Welding Current (A)	Welding Voltage (V)	MIG MMA-350S	MIG MMA-400S	MIG MMA-500S	MIG MMA-500DP
0.9-2.0	0.8	45-65	16-19	*	*	*	*
2.0-3.0	0.8	60-125	17-20	*	*	*	*
3.0-6.0	1.0	95-160	18-22	●	●	●	●
6.0-10.0	1.2	135-200	19-24	●	●	●	●
10.0-12.0	1.2	210-330	24-33	o	●	●	●
12.0-18.0	1.6	250-500	25-40		o	o	o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
* The machine can weld continuously without overheating. The machine is too large if always weld under this condition.
Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

Model	:	MIG MMA-350S	MIG MMA-400S	MIG MMA-500S	MIG MMA-500DP
Input Voltage	:	1PH/3PH~220V	3PH~380V	3PH~380V	3PH~380V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	100%	100%	100%	100%
Current Range	:	MIG=80~350A MMA=20~280A	MIG=80~400A MMA=20~320A	MIG=100~500A MMA=20~400A	MIG=100~500A MMA=20~400A
OCV	:	56V	56V	63V	70V
Wire Diameter(mm)	:	0.8-1.2	0.8-1.6	0.8-1.6	0.8-1.6
Efficiency	:	0.85	0.85	0.85	0.85
Protection Grade	:	IP 23	IP 23	IP 23	IP 23
Net Weight	:	54KG	56KG	58KG	58KG
Dimension L*W*H	:	66*34*52CM	66*34*52CM	66*34*52CM	66*34*52CM

MMA-140S
MMA-160S

MMA-200S single PCB machine

MMA-200
Lift TIG & VRD

Selection Guide by Welding Process and Electrode Diameter

Model	Input Voltage	Welding Process		Electrode Diameter (mm)			
		MMA	Lift TIG	2.5	3.2	4.0	5.0
MMA-140S	1ph~220V/50/60Hz	√		●	o		
MMA-160S		√		●	●	o	
MMA-200S		√		●	●	●	o
MMA-200		√	√*	●	●	●	o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
√* Start TIG operation with Lift start.

Selection Guide by Thickness of Mild Steel and Welding Electrode

Mild Steel Thickness (mm)	Electrode Diameter (mm)	Welding Current (A)	MMA-140S	MMA-160S	MMA-200S	MMA-200
1.0-3.0	2.5	45-95	●	●	●	●
3.0-6.0	3.2	85-145	o	o	●	●
6.0-10.0	4.0	110-180	o	o	●	●
10.0-15.0	5.0	180-240			o	o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

- Designed for stick electrode and TIG welding process, easy to operate and 100% ARC starting, normally can meet the needs of daily household welding and repairing.
- Small and light, easy to carry, can be used for welding anytime and anywhere without being restricted by the working environment.

Model	:	MMA-140S	MMA-160S	MMA-200S	MMA-200
Input Voltage	:	1PH~220V	1PH~220V	1PH~220V	1PH~220V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%
Current Range	:	20-140A	20~160A	20~200A	20~200A
OCV	:	56V	56V	60V	70V
Electrode Diameter (mm)	:	2.5-3.2	2.5-4.0	2.5-5.0	2.5-5.0
Electrode Dia. for whole day welding	:	2.5	2.5	3.2	3.2
Protection Grade	:	IP21S	IP21S	IP21S	IP21S
Net Weight	:	3.3KG	3.8KG	4.5KG	6.5KG
Dimension L*W*H	:	31*14*25CM	31*14*25CM	36*16*30CM	36*16*30CM

MMA DC INVERTER WELDERS
POWER FACTOR CORRECTION

WOWELD®

ARC 150 PFC
ARC 200 PFC

ARC 250 PFC

ARC 300 PFC

Selection Guide by Welding Process and Electrode Diameter

Model	Input Voltage	Welding Process		Electrode Diameter (mm)			
		MMA	Lift TIG	2.5	3.2	4.0	5.0
ARC 150 PFC	1PH AC95~265V 50/60Hz	√	√*	●	●	○	
ARC 200 PFC		√	√*	●	●	●	○
ARC 250 PFC		√	√*	●	●	●	○
ARC 300 PFC		√	√*	●	●	●	○

● The machine can weld continuously without overheating. (100% duty cycle)
○ The machine should weld and rest according to the duty cycle to avoid overheating.
√* Start TIG operation with Lift start.

Selection Guide by Thickness of Mild Steel and Welding Electrode

Mild Steel Thickness (mm)	Electrode Diameter (mm)	Welding Current (A)	ARC 150 PFC	ARC 200 PFC	ARC 250 PFC	ARC 300 PFC
1.0-3.0	2.5	45-95	●	●	●	●
3.0-6.0	3.2	85-145	●	●	●	●
6.0-10.0	4.0	110-180	●	●	●	●
10.0-15.0	5.0	180-240	○	○	○	●
≧15. 0	6.0	200-280				○

● The machine can weld continuously without overheating. (100% duty cycle)
○ The machine should weld and rest according to the duty cycle to avoid overheating.
Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

- Outstading welding performance
- PFC Technology
  Power factor more than 0.95;
  Deliver stable arc even with 100 meter cables
- Use for all kinds electrode
- Precise lift TIG design

Model	:	ARC 150 PFC	ARC 200 PFC	ARC 250 PFC	ARC 300 PFC
Input Voltage	:	1PH~220V	1PH~220V	1PH~220V	1PH~220V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%
Current Range	:	20-150A	20~200A	20~250A	20~300A
OCV	:	78V	78V	80V	80V
Electrode Diameter (mm)	:	2.5-4.0	2.5-5.0	2.5-5.0	2.5-5.0
Electrode Dia. for whole day welding	:	2.5	2.5	3.2	4.0
Protection Grade	:	IP21S	IP21S	IP23	IP23
Net Weight	:	6.5KG	7.0KG	12.0KG	18.0KG
Dimension L*W*H	:	36*16*30CM	36*16*30CM	44*19*31CM	49*22*40CM

MMA DC INVERTER WELDERS

WOWELD®

MMA-250
MMA-300

MMA-400

MMA-500

Selection Guide by Welding Process and Electrode Diameter

Model	Input Voltage	Welding Process		Electrode Diameter (mm)			
		MMA	Lift TIG	2.5	3.2	4.0	5.0
MMA-250	1ph~220V/50/60Hz	√	√*	●	●	●	o
MMA-300	3ph~380V/50/60Hz	√	√*	●	●	●	o
MMA-400		√	√*	●	●	●	●
MMA-500		√	√*	●	●	●	●

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
√* Start TIG operation with Lift start.

Selection Guide by Thickness of Mild Steel and Welding Electrode

Mild Steel Thickness (mm)	Electrode Diameter (mm)	Welding Current (A)	MMA-250	MMA-300	MMA-400	MMA-500
1.0-3.0	2.5	45-95	●	●	●	●
3.0-6.0	3.2	85-145	●	●	●	●
6.0-10.0	4.0	110-180	●	●	●	●
10.0-15.0	5.0	180-240	o	●	●	●
≧15. 0	6.0	200-280		o	●	●

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

- MMA/Lift TIG function, hot start, Arc force and VRD supported.
- Energy-efficient, output efficiency is guaranteed as high as 86%
- Designed for machine installation, petroleum, shipbuilding, and chemical industry

Model	:	MMA-250	MMA-300	MMA-400	MMA-500
Input Voltage	:	1PH~220V	3PH~380V	3PH~380V	3PH~380V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%
Current Range	:	20-250A	20~300A	20~400A	20~500A
OCV	:	70V	70V	70V	70V
Electrode Diameter (mm)	:	2.5-4.0	2.5-5.0	2.5-5.0	2.5-5.0
Electrode Dia. for whole day welding	:	3.2	4.0	5.0	5.0
Protection Grade	:	IP21S	IP23	IP23	IP23
Net Weight	:	8.0KG	11.0KG	20.0KG	28.0KG
Dimension L*W*H	:	42*21*33CM	42*21*33CM	49*22*40CM	57*30*49CM

MMA-160D
MMA-200D

MMA-250D

MMA-300D

Selection Guide by Welding Process and Electrode Diameter

Model	Input Voltage /50/60Hz	Welding Process		Electrode Diameter (mm)			
		MMA	Lift TIG	2.5	3.2	4.0	5.0
MMA-160D	1ph~110V/220V	√	√*	●	o		
MMA-200D		√	√*	●	●	o	
MMA-250D	1ph~220V,3ph~220V	√	√*	●	●	●	o
MMA-300D	1ph~220V,3ph~380V	√	√*	●	●	●	o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
√* Start TIG operation with Lift start.

Selection Guide by Thickness of Mild Steel and Welding Electrode

Mild Steel Thickness (mm)	Electrode Diameter (mm)	Welding Current (A)	MMA-160D	MMA-200D	MMA-250D	MMA-300D
1.0-3.0	2.5	45-95	●	●	●	●
3.0-6.0	3.2	85-145	o	●	●	●
6.0-10.0	4.0	110-180	o	o	●	●
10.0-15.0	5.0	180-240		o	o	●
≧15. 0	6.0	200-280			o	o

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

- MMA/Lift TIG function, hot start, Arc force and VRD supported.
- Multi input voltage to satisfy different working environment, automatically recognizes the input voltage
- Applies to various welding rods including acid and basic one

Model	:	MMA-160D	MMA-200D	MMA-250D	MMA-300D
Input Voltage	:	1PH~110V 1PH~220V	1PH~110V 1PH~220V	1PH~220V 3PH~220V	1PH~220V 3PH~220V 3PH~380V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%
Current Range	:	110V=20~140A 220V=20~160A	110V=20~140A 220V=20~200A	20~250A	220V=20~250A 380V=20~300A
OCV	:	56V	62V	70V	70V
Electrode Diameter (mm)	:	2.5-3.2	2.5-4.0	2.5-4.0	2.5-5.0
Electrode Dia. for whole day welding	:	2.5	3.2	4.0	4.0
Protection Grade	:	IP21S	IP21S	IP21S	IP21S
Net Weight	:	4.5KG	7.0KG	11.0KG	15.0KG
Dimension L*W*H	:	36*16*30CM	36*16*30CM	44*19*31CM	49*22*40CM

S 350
S 400

S 500

S 630
S 800

OEM available:
1ph 220V / 3ph 220V
3ph 220/380/440V

Selection Guide by Welding Process and Electrode Diameter

Model	Input Voltage	Welding Process		Welding Electrode (mm)				Gouging Electrode (mm)				
		MMA	Lift TIG	2.5	3.2	4.0	5.0	5.0G	6.5G	8.0G	9.5G	11G
S 350	3ph~380V	√	√*	●	●	●	●	●	o			
S 400		√	√*	●	●	●	●	●	●	o		
S 500		√	√*	●	●	●	●	●	●	●	o	
S 630		√	√*	●	●	●	●	●	●	●	●	o
S 800		√	√*	●	●	●	●	●	●	●	●	●

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
√* Start TIG operation with Lift start.

Selection Guide by Thickness of Mild Steel and Welding Electrode

Mild Steel Thickness (mm)	Electrode Diameter (mm)	Welding Current (A)	S 350	S 400	S 500	S 630	S 800
1.0-3.0	2.5	45-95	●	●	●	●	●
3.0-6.0	3.2	85-145	●	●	●	●	●
6.0-10.0	4.0	110-180	●	●	●	●	●
10.0-15.0	5.0	180-240	●	●	●	●	●
≧15. 0	6.0	200-280	o	●	●	●	●

● The machine can weld continuously without overheating. (100% duty cycle)
o The machine should weld and rest according to the duty cycle to avoid overheating.
Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

Model	:	S 350	S 400	S 500	S 630	S 800
Input Voltage	:	3PH~380V	3PH~380V	3PH~380V	3PH~380V	3PH~380V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	100%	100%	100%	100%	100%
Current Range	:	20-350A	20~400A	20~500A	40~600A	40~800A
OCV	:	80V	80V	80V	80V	80V
Welding Electrode (mm) Gouging Electrode (mm)	:	2.5-5.0 5.0G	2.5-6.0 5.0G-6.5G	2.5-6.0 5.0G-8.0G	2.5-8.0 5.0G-9.0G	2.5-8.0 5.0G-11G
Electrode Dia. for whole day welding	:	5.0G	6.5G	8.0G	9.0G	11G
Protection Grade	:	IP23	IP23	IP23	IP23	IP23
Net Weight	:	40KG	44KG	48KG	53KG	58KG
Dimension L*W*H	:	57*30*49CM	57*30*49CM	66*34*52CM	66*34*52CM	66*34*52CM

TIG-160C
TIG-200C

TIG-200PCT

Pulse TIG
Cold TIG

TIG-250PCT

Pulse TIG
Cold TIG

Selection Guide by Material

Model	Input Voltage /50/60Hz		Welding Material			
	1ph~220V	3ph~380V	Steel	Stainless Steel	Copper	Brass
TIG-160C	●		●	●	●	●
TIG-200C	●		●	●	●	●
TIG-200PCT	●		●	●	●	●
TIG-250PCT	●		●	●	●	●

Selection Guide by Thickness of Material and Tungsten Electrode

Material Thickness (mm)	Tungsten Diameter (mm)	Welding Current (A)	TIG-160C	TIG-200C	TIG-200PCT	TIG-250PCT
TIG for Stainless steel, Steel, Copper, Brass						
0.6-0.8	1.0	20-60	●	●	●	●
0.9-1.0	1.6	35-70	●	●	●	●
1.2-1.6	1.6	40-105	●	●	●	●
1.8-2.0	1.6	60-120	●	●	●	●
2.1-3.0	2.4	80-135	o	●	●	●
3.1-4.0	2.4	110-200	o	○	●	●
4.1-6.0	3.2	150-280		o	●	●

● The machine can weld continuously without overheatinG. (100% duty cycle)

o The machine should weld and rest according to the duty cycle to avoid overheating.

Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

- The arc ignition system of the inverter TIG (argon gas) welding machine adopts the principle of high frequency oscillation, which has the characteristics of easy arc start and arc concentration
- With higher no-load voltage and better energy thrust compensation, it is widely used for welding stainless steel, alloy steel, carbon steel, copper and other non-ferrous metals.

Model	:	TIG-160C	TIG-200C	TIG-200PCT	TIG-250PCT
Input Voltage	:	1PH~220V	1PH~220V	1PH~220V	1PH~220V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%
Current Range	:	TIG=10-160A MMA=20-120A	TIG=10-200A MMA=20-160A	TIG=10-200A MMA=20-160A	TIG=10-250A MMA=20-200A
OCV	:	56V	56V	56V	56V
TungstenΦ (mm)	:	1.0-3.2	1.0-3.2	1.0-3.2	1.0-3.2
Welding Time	:	N/A	N/A	1-999ms	1-999ms
Post Flow	:	0.1-5S	0.1-5S	0.1-5S	0.1-5S
Interval Time	:	N/A	N/A	0.1-10S	0.1-10S
Protection Grade	:	IP21S	IP21S	IP21S	IP21S
Net Weight	:	6.0KG	8.0KG	9.0KG	11.0KG
Dimension L*W*H	:	36*16*30CM	36*16*30CM	36*16*30CM	42*21*33CM

TIG-200P

TIG-250P
TIG-300P
TIG-350P

TIG-400P
TIG-500P

Selection Guide by Material

Model	Input Voltage /50/60Hz		Welding Material			
	1ph~220V	3ph~380V	Steel	Stainless Steel	Copper	Brass
TIG-200P	●		●	●	●	●
TIG-250P	●		●	●	●	●
TIG-300P	●		●	●	●	●
TIG-350P		●	●	●	●	●
TIG-400P		●	●	●	●	●
TIG-500P		●	●	●	●	●

Selection Guide by Thickness of Material and Tungsten Electrode

Material Thickness (mm)	Tungsten Diameter (mm)	Welding Current (A)	TIG-200P	TIG-250P	TIG-300P	TIG-350P	TIG-400P	TIG-500P
TIG for Stainless steel, Steel, Copper, Brass								
0.6-0.8	1.0	20-60	*	*	*	*	*	*
0.9-1.0	1.6	35-70	*	*	*	*	*	*
1.2-1.6	1.6	40-105	●	*	*	*	*	*
1.8-2.0	1.6	60-120	●	●	*	*	*	*
2.1-3.0	2.4	80-135	●	●	*	*	*	*
3.1-4.0	2.4	110-200	●	●	●	*	*	*
4.1-6.0	3.2	150-280	o	o	●	*	*	*

● The machine can weld continuously without overheatinG. (100% duty cycle)

o The machine should weld and rest according to the duty cycle to avoid overheating.

* The machine can weld continuously without overheating. The machine is too large if always weld under this condition.

Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

Model	:	TIG-200P	TIG-250P	TIG-300P	TIG-350P	TIG-400P	TIG-500P
Input Voltage	:	1PH~220V	1PH~220V	1PH~220V	3PH~380V	3PH~380V	3PH~380V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%	60%	60%
Current Range	:	TIG=10-200A MMA=20-160A	TIG=10-250A MMA=20-200A	TIG=10-300A MMA=20-250A	TIG=10-350A MMA=20-280A	TIG=10-400A MMA=20-320A	TIG=10-500A MMA=20-400A
OCV	:	60V	60V	60V	60V	70V	70V
Tungsten Diameter (mm)	:	1.0-2.4	1.0-2.4	1.0-3.2	1.0-4.0	1.0-4.0	1.0-4.0
Pulse Frequency	:	0.1~20Hz	0.1~20Hz	0.1~20Hz	0.1~20Hz	0.1~20Hz	0.1~20Hz
Post Flow	:	0.1-5S	0.1-5S	0.1-5S	0.1-5S	0.1-5S	0.1-5S
Pre-Flow	:	0.1-5S	0.1-5S	0.1-5S	0.1-5S	0.1-5S	0.1-5S
Protection Grade	:	IP 23	IP23	IP23	IP 23	IP23	IP23
Net Weight	:	10.0KG	13.0KG	15.0KG	20.0KG	28.0KG	30.0KG
Dimension L*W*H	:	44*19*31CM	49*22*40CM	49*22*40CM	49*22*40CM	57*30*49CM	57*30*49CM

TIG-200P AC/DC
TIG-250P AC/DC

TIG-315P AC/DC

TIG-400P AC/DC

Selection Guide by Material

Model	Input Voltage /50/60Hz		Welding Material			
	1ph~220V	3ph~380V	Steel	Stainless Steel	Copper	Brass
TIG-200P AC/DC	●		●	●	●	●
TIG-250P AC/DC	●		●	●	●	●
TIG-315P AC/DC		●	●	●	●	●
TIG-400P AC/DC		●	●	●	●	●

Selection Guide by Thickness of Material and Tungsten Electrode

Thickness (mm)	Tungsten (mm)	Current (A)	Thickness (mm)	Tungsten (mm)	Current (A)	TIG-200P AC/DC	TIG-250P AC/DC	TIG-315P AC/DC	TIG-400P AC/DC
Stainless steel, Steel, Copper, Brass			Aluminum,Magnesium						
0.6-0.8	1.0	20-60	0.8-1.0	1.0	30-70	*	*	*	*
0.9-1.0	1.6	35-70	1.0-1.6	1.6	70-100	*	*	*	*
1.2-1.6	1.6	40-105	1.6-2.4	2.4	100-125	●	*	*	*
1.8-2.0	1.6	60-120	2.4-3.2	2.4	125-160	●	●	*	*
2.1-3.0	2.4	80-135	3.2-5.0	3.2	160-200	●	●	*	*
3.1-4.0	2.4	110-200	5.0-6.5	2.4	200-280	●	●	●	*
4.1-6.0	3.2	150-280				o	o	●	*

● The machine can weld continuously without overheatinG. (100% duty cycle)

o The machine should weld and rest according to the duty cycle to avoid overheating.

Remarks: The information is only the guideline for welder. All parameters can be adjusted according to the real working situation.

Model	:	TIG-200P AC/DC	TIG-250P AC/DC	TIG-315P AC/DC	TIG-400P AC/DC
Input Voltage	:	1PH~220V	1PH~220V	3PH~380V	3PH~380V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%
Current Range	:	TIG=10-200A MMA=20-160A	TIG=10-250A MMA=20-200A	TIG=10-300A MMA=20-240A	TIG=10-400A MMA=20-320A
OCV	:	50V	50V	60V	60V
Tungsten Diameter (mm)	:	1.0-2.4	1.0-2.4	1.0-3.2	1.0-4.0
Pulse Frequency	:	1~200Hz	1~200Hz	1~200Hz	1~200Hz
Post Flow	:	0.1-5S	0.1-5S	0.1-5S	0.1-5S
Cleaning Width	:	25%~75%	25%~75%	25%~75%	25%~75%
Protection Grade	:	IP 23	IP23	IP23	IP 23
Net Weight	:	16.0KG	24.0KG	42.0KG	45.0KG
Dimension L*W*H	:	57*30*49CM	57*30*49CM	57*30*49CM	66*34*52CM

AIR PLASMA CUTTING MACHINE

WOWELD®

CUT-45
CUT-50

CT-520

CUT-50 AC
Built-in air compressor

Selection Guide for Air Plasma Cutting Machine by Arc-Starting Mode

Model	Input Voltage/50/60Hz		Cutting Current (A) Mild Steel		Arc-Starting Mode	
	1ph~220V	3ph~380V	Qualified	Maximum	Touch	Non-touch
CUT-45	√		7	11	√	
CUT-50	√		8	12	√	
CT-520	√		8	12	√	
CUT-50 AC	√		8	12	√	

Selection Guide for Air Plasma Cutting Machine by Thickness of Materials

Material Thickness (mm)						Cutting Current (A)	CUT-45	CUT-50	CT-520	CUT-50 AC
Mild Steel		Stainless Steel		Aluminium						
Qualified	Maximum	Qualified	Maximum	Qualified	Maximum					
7	11	6	9	5	8	45	o	o	o	o
8	12	7	10	6	9	50		o	o	o

● The machine can cut continuously without overheating.(100% duty cycle)

o The machine should cut and rest according to the duty cycle to avoid overheating.

Remarks: The information is only the guideline for professional person. All parameters can be adjusted according to the real working situation.

- High frequency touch/Non-touch arc-starting
- PWM modulation technique, high inverter frequency, portable, energy saving
- Outstanding cutting quality with trim and slick edge technical parameters
- The effective protection circuitry against various damaged risks such as overload of voltage and current, voltage shortage, over heat delivers high reliability during operation

Model	:	CUT-45	CUT-50	CT-520	CUT-50 AC
Input Voltage	:	1PH~220V	1PH~220V	1PH~220V	1PH~220V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%
Current Range	:	CUT=20-45A	CUT=20-50A	CUT=20-50A TIG=10-200A MMA=30-160A	CUT=20-50A
OCV	:	260V	260V	260V	260V
Arc-Starting Mode	:	Touch	Touch	Touch	Touch
Compressed Air Pressure(kg/cm^2)	:	3.0-5.0	3.0-5.0	3.0-5.0	3.0-5.0
Post Flow Time	:	0-5S	0-5S	0-5S	0-5S
Efficiency	:	85%	85%	85%	85%
Protection Grade	:	IP21S	IP21S	IP21S	IP21S
Net Weight	:	8.5KG	8.5KG	15KG	18KG
Dimension L*W*H	:	36*16*30CM	36*16*30CM	44*19*31CM	49*22*40CM

AIR PLASMA CUTTING MACHINE

WOWELD®

PC 60
PC 80T

PC 100T
PC 120T

PC 150T
PC 200T

OEM available:
1ph 220V / 3ph 220V
3ph 220/380/440V

Selection Guide for Air Plasma Cutting Machine by Arc-Starting Mode

Model	Input Voltage/50/60Hz			Cutting Current (A) Mild Steel		Arc-Starting Mode	
	1ph~220V	3ph~220V	3ph~380V	Qualified	Maximum	Touch	Non-touch
PC 60	✓			15	20		✓
PC 80T			✓	20	25		✓
PC 100T			✓	25	35		✓
PC 120T			✓	30	40		✓
PC 150T			✓	38	50		✓
PC 200T		✓		45	60		✓

Selection Guide for Air Plasma Cutting Machine by Thickness of Materials

Material Thickness (mm)						Cutting Current (A)	PC 60	PC 80T	PC 100T	PC 120T	PC 150T	PC 200T
Mild Steel		Stainless Steel		Aluminium								
Qualified	Maximum	Qualified	Maximum	Qualified	Maximum							
15	20	12	16	10	14	60	o					
20	26	16	20	14	18	80		o				
25	35	20	28	17	24	100			●			
30	40	24	34	21	29	120				●		
38	50	30	40	26	35	150					●	
45	60	36	48	31	42	200						●

● The machine can cut continuously without overheating.(100% duty cycle)

o The machine should cut and rest according to the duty cycle to avoid overheating.

Remarks: The information is only the guideline for professional person. All parameters can be adjusted according to the real working situation.

Model	:	PC 60	PC 80T	PC 100T	PC 120T	PC 150T	PC 200T
Input Voltage	:	1PH~220V	3PH~380V	3PH~380V	3PH~380V	3PH~380V	3PH~220V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%	100%	80%
Current Range	:	20-60A	20-80A	30-100A	30-120A	40-150A	40-200A
OCV	:	300V	330V	330V	330V	330V	330V
Arc-Starting Mode	:	Non-Touch	Non-Touch	Non-Touch	Non-Touch	Non-Touch	Non-Touch
Compressed Air Pressure(kg/cm^2)	:	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Post Flow Time	:	0-5S	0-5S	0-5S	0-5S	0-45S	0-45S
Efficiency	:	85%	85%	85%	85%	85%	85%
Protection Grade	:	IP21S	IP21S	IP23	IP23	IP23	IP23
Net Weight	:	18KG	22KG	48KG	49KG	53KG	58KG
Dimension L*W*H	:	49*22*40CM	49*22*40CM	57*30*49CM	57*30*49CM	66*34*52CM	66*34*52CM

AIR PLASMA CUTTING MACHINE
BUILT-IN AIR COMPRESSOR

WOWELD®

CUT-50 AC

CUT-80 AC

CUT-100 AC
CUT-120 AC

Selection Guide for Air Plasma Cutting Machine by Arc-Starting Mode

Model	Input Voltage/50/60Hz		Cutting Current (A) Mild Steel		Arc-Starting Mode	
	1ph~220V	3ph~380V	Qualified	Maximum	Touch	Non-touch
CUT-50 AC	√		8	12	√	
CUT-80 AC		√	20	26		√
CUT-100AC		√	25	35		√
CUT-120AC		√	30	40		√

Selection Guide for Air Plasma Cutting Machine by Thickness of Materials

Material Thickness (mm)						Cutting Current (A)	CUT-50 AC	CUT-80 AC	CUT-100 AC	CUT-120 AC
Mild Steel		Stainless Steel		Aluminium						
Qualified	Maximum	Qualified	Maximum	Qualified	Maximum					
8	12	7	10	6	9	50	o			
20	26	16	20	14	18	80		o		
25	35	20	28	17	24	100			o	
30	40	24	34	21	29	120				o

● The machine can cut continuously without overheating.(100% duty cycle)

o The machine should cut and rest according to the duty cycle to avoid overheating.

Remarks: The information is only the guideline for professional person. All parameters can be adjusted according to the real working situation.

Model	:	CUT-50 AC	CUT-80 AC	CUT-100 AC	CUT-120 AC
Input Voltage	:	1PH~220V	3PH~380V	3PH~380V	3PH~380V
Frequency	:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Duty Cycle	:	60%	60%	60%	60%
Current Range	:	CUT=20-50A	CUT=20-80A MMA=20-200A	CUT=30-100A MMA=20-220A	CUT=30-120A MMA=20-220A
OCV	:	260V	320V	320V	320V
Arc-Starting Mode	:	Touch	Non-Touch	Non-Touch	Non-Touch
Compressed Air Pressure(kg/cm^2)	:	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Post Flow Time	:	0-5S	0-5S	0-5S	0-5S
Efficiency	:	85%	85%	85%	85%
Protection Grade	:	IP21S	Ip23	IP23	IP23
Net Weight	:	18KG	48KG	53KG	57KG
Dimension L*W*H	:	49*21*33CM	57*30*49CM	66*34*52CM	66*34*52CM

RSR-1600

RSR-2500

RSR-4000

Selection Guide by Material and Stud Diameter

Model	Input Voltage	Stud Diameter(mm)	Material	
RSR-1600	1ph~220V/50/60Hz	M3-M6		Alu
		M3-M8	Mild Steel	
RSR-2500		M3-M8		Alu
		M3-M10	Mild Steel	
RSR-4000		M3-M10		Alu
		M3-M12	Mild Steel	

Above specification for reference ONLY, actual welding parameters should follow with professional technician and working environment.

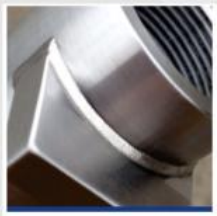
Selection Guide by Stud Size Match Welding Voltage

Stud Diameter (mm)	Charging Voltage (V)	RSR-1600	RSR-2500	RSR-4000
M3	55-70	●	●	●
M4	65-90	●	●	●
M5	70-110	●	●	●
M6	85-130	●	●	●
M8	140-170	○	●	●
M10	160-190		○	●

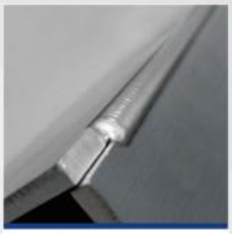
Above parameter under the condition of 1.5mm mild steel.

- Continuously adjustable charging voltage, short charging time, energy saving
- Anti-voltage fluctuation design
- Welding application for: steel, aluminum, brass, or other alloys

Model		:	RSR-1600	RSR-2500	RSR-4000
Input Voltage		:	1PH~220V	1PH~220V	1PH~220V
Frequency		:	50/60Hz	50/60Hz	50/60Hz
Input power(KVA)		:	4.5	4.5	4.5
Charging Voltage Range		:	20~190V	20~190V	20~190V
Welding throughput(piece/min)		:	10-15	10-15	10-15
Stud Diameter (mm)	Mild steel or Stainless Steel	:	M3-M8	M3-M10	M3-M12
	Aluminum alloy	:	M3-M6	M3-M8	M2-M10
Net Weight		:	24KG	26KG	30KG
Dimension L*W*H		:	49*22*40CM	49*22*40CM	59*22*40CM



● Aerospace manufacturing



● Kitchen utensils

● Machinery parts

LS-1500
LS-2000
LS-3000

● Stainless steel furniture

● Hardware sheet metal

● Auto parts

- Fast welding speed, high efficiency, high quanlity welding effect, less welding consumables, long life and environmental protection

- Widely used in kitchen appliances, door and window guardrails, Aluminium alloy, staircase elevators, stainless steel furniture, metal sheet metal, and advertising Welding in industries such as brand, craft gifts, auto repair, auto manufacturing, rail transit and aerospace.

- Easy operation and fast setup, less skill needed.

Model	:	LS-1500	LS-2000	LS-3000
Laser Type	:	Fiber Laser	Fiber Laser	Fiber Laser
Output Power(W)	:	1500	2000	3000
Laser wave length(nm)	:	1080±10 nm	1080±10 nm	1080±10 nm
Working mode	:	Continuous/Pulse	Continuous/Pulse	Continuous/Pulse
Cooling method	:	Water cool	Water cool	Water cool
Fiber core diameter	:	50um	50um	50um
Fiber length	:	10 m	10 m	10 m
Protection gas	:	Argon/Nitrogen	Argon/Nitrogen	Argon/Nitrogen
Machine Power(KW)	:	3.5	5	7
Input voltage(V)	:	1ph220V	1ph220V	3ph380V
Frequency(Hz)	:	50/60	50/60	50/60
Working environment	:	10~40°C	10~40°C	10~40°C
Welding speed	:	0 ~ 120 mm/s	0 ~ 120 mm/s	0 ~ 120 mm/s
Wire feeder	:	Standard wire feeding speed 38~600mm/min	Standard wire feeding speed 38~600mm/min	Standard wire feeding speed 38~600mm/min
Wire feed diameter(mm)	:	0.8/1.0/1.2/1.6/2.0	0.8/1.0/1.2/1.6/2.0	0.8/1.0/1.2/1.6/2.0
Welding thickness(mm)	:	0.5~3	0.5~5	0.5~6
Applicable materials	:	Carbon/Stainless Galvanized sheet Aluminum	Carbon/Stainless Galvanized sheet Aluminum	Carbon/Stainless Galvanized sheet Aluminum
Dimension(LxWxH)(mm)	:	1150X630X1080	1150X630X1080	1150X630X1080
Weight(KG)	:	170	200	230

NOTE:

NOTE:

NOTE:

Shenzhen Woweld Electric Co., Ltd.

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