WORLDWEL

LONGRUN®

CATALOGUE

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WORLDWEL

To be the Premier Global Leader

WE MAKE THE BEST.

WORLDWEL

Welding Machine Expert

Company WORLDWEL

- STICK Welder
- TIG Welder
- CO_2 Welder
- MIG Welder
- PLASMA Cutter
- STUD Welder
- SUBMERGED Arc Welder
- WATER Cooler
- WATER Chiller
- AUTOMATED welding equipment
- Welding Robot

LONGRUN®

PRODUCT CATALOGUE

WORLDWEL have been stepping ahead to produce many types of hi-tech welding machines such as Thyrister, Inverter, Resistance type welding machine, Plasma welding system since 1991.

Conquering New Territory SINCE 1991

1991
- Established JEONGWOO WELDER (Special manufacturer of transformer)

1995
- Changed the name to WORLD M&E Co.

2007
- Converted into WORLDWEL CO., LTD.

2009
- Registered as a partner company of KITECH
- Registered a Trademark for the name "LONGRUN"

2010
- CE Certified for Inverter DC Stick Welder 160LD2

2011
- CE certified for Inverter DC TIG Welder 200LD2, 350LT, 500LT2
- Established Industry knowledge center and new factory (33,000㎡)

2012
- Established R&D center
- Authorized "Good quality product's enterprise"
- Developed Inverter spot welder
- Authorized as "Vision Enterprises"

2013
- Reauthorized as "Technology Innovation Business Company"
- Developed Portable SAW Tractor (LS7, LD7)
- Regained ISO 9001, 2000 Certificate
- Developed Inverter CD Stud welder (1200DST, 1500DST)
- Reauthorized as a "Promising exporter company" by Korean Government
- Reauthorized as a "Material & Component Specialized Company" by Korean government
- Certified for "Good Design" for 5 models
- CU Certified for TIG, MIG and MMA

2014
- Authorized as "Certification of origin on exporter of EU, ASEAN"
- Established Water chiller system department
- Developed High-end TIG Welder (P Series)
- CE certified for 7 models

2015
- Register the Design of plastic case
- Given a citation for excellent business by SMBA
- CU Certified for Inverter DC Arc, Inverter DC TIG, Inverter MIG
- Authorized MAIN-BIZ Certificate
- Given a citation for excellent trading business

2016
- Developed Inverter Submerged welder (1200PDS, 1500PDS)

2017
- Completed Smart Factory Support Project
- CE Certified for Inverter Submerged Welder (1200, 1500PDS)
- Introduced "MES (Manufacturing Execution System)"

2018
- Developed Digital Multi-process welder

2019
- Moved to a new factory

WORLDWEL have been stepping ahead to produce many types of hi-tech welding machines such as Thyrister, Inverter, Resistance type welding machine, Plasma cutter and Automation welding system and Welding robot since 1991.

As a matter of our these effort and passion for better future and technology, we have been able to acquire many authorizations, certifications and registrations such as INNO-BIZ, Promising Export firm, ISO9001, CE and Venture from authorities.

Furthermore, we have been renewing an export record every year as an evidence of our high quality as well as increasing domestic market share rate by providing our products to major companies such as POSCO, SAMSUNG, HYUNDAI, DOOSAN.

We will keep doing our best continuously to meet our customer's high demands and make it satisfy by manufacturing the best "LONGRUN".

CONTENTS

DC STICK WELDER

SMAW

Shielded metal arc welding (SMAW, MMA-STICK Welding) is
a manual arc welding process that uses a consumable electrode
covered with a flux to lay the weld.
An electrode and the metals to be joined.
SMAW is one of the world's first and most popular welding processes
because of the versatility of the process
and the simplicity of its equipment and operation.

- High dulability and stability by patented transformer
- Easy and safe use by V.R.D function

01
STICK WELDER
(SMAW)

Inverter DC Stick Welder

Feature

- Patented transformer delivers high duty cycle
- High durability and stability by components of enough capacity
- HOT START : Easy and perfect Arc start
- Energy saving and high efficiency by IGBT Inverter control technology

▪ Specifications

	200SLD	200LD CE	200LD3 CE	230LD CE
Input voltage (V, PH)	220, 1	220, 1	220, 1	220, 1
Input capacity (KVA)	6.7	6.5	7.5	8
Open circuit voltage (V)	87.5	74.5	73	79
Output current (A)	15~190	20~185	20~200	20~215
Duty cycle (%)	30	60	60	60
Dimension (mm)	165 X 350 X 190	180 X 400 X 280	180 X 400 X 280	180 X 400 X 280
Weight (kg)	5.5	8.6	9.4	10
Function	· Compact size, Ultra-light weight. · PRE-SET : Easy to set and check welding amperage. · DIGITAL DISPLAY : Easy to check welding amperage. · Welding rod : 2.0~3.2Ø	· Welding rod : 2.0~3.2Ø	· Arc force · Hot start : Easy and perfect arc start. · PRE-SET : Easy to set and check welding amperage. · DIGITAL DISPLAY : Easy to check welding amperage. · Welding rod : 2.0~3.2Ø	· Welding rod : 2.0~4.0Ø

▪ Specifications

	250LD3 CE	300LD3 CE	400LD3 CE	500LD3 CE
Input voltage (V, PH)	220, 1	220, 1	220/380/440, 1/3	220/380/440, 1/3
Input capacity (KVA)	9	11.5	17.5	23.5
Open circuit voltage (V)	74.5	81.5	92@380 Input	92@380 Input
Output current (A)	20~250	20~300	40~400	40~500
Duty cycle (%)	60	60	60	60
Dimension (mm)	210 X 460 X 300	210 X 460 X 300	350 X 730 X 530	398 X 770 X 627
Weight (kg)	15	16.5	40	53
Function	· Arc force · Hot start : Easy and perfect arc start. · PRE-SET : Easy to set and check welding amperage. · DIGITAL DISPLAY : Easy to check welding amperage. · Welding rod : 2.0~4.0Ø	· Arc force · Hot start : Easy and perfect arc start. · PRE-SET : Easy to set and check welding amperage. · DIGITAL DISPLAY: Easy to check welding amperage. · Welding rod : 2.0~5.0Ø	· Arc force · Hot start : Easy and perfect arc start. · PRE-SET : Easy to set and check welding amperage. · DIGITAL DISPLAY : Easy to check welding amperage. · Pulse function : Ideal for sheet and vertical welding · Remote controller (Optional) · Welding rod : 2.0~5.0Ø	

TIG WELDER

GTAW

Gas tungsten arc welding (GTAW, TIG) is an arc welding process that uses a non-consumable tungsten electrode to produce the weld. GTAW is most commonly used to weld thin sections of stainless steel and non-ferrous metals such as aluminum, magnesium, and copper alloys. The process grants the operator greater control over the weld than competing processes such as SMAW and GMAW, allowing for stronger, higher quality welds.

- Various products range from Micro TIG to Heavy duty TIG welder satisfies customers varied needs
- Rectangle Heat sink and three cooling fans delivers high durability

02

TIG WELDER (GTAW)

LONGRUN®

Professional DC PULSE TIG Welder

Feature

- Optimized for welding mild steel, stainless steel
- Best welding quality for pipe welding with pulse function
- Full digital control and user friendly interface
- Multi-functional digital remote controller (Optional)
- Excellent performance for automation welding
- Ideal for thin plate welding with precision arc performance

Specifications

	300PT3				500PT3				600PT3				1000PT3			
Input voltage (V, PH)	220, 1/3		380, 1/3		220, 1/3		380, 1/3		220, 1/3		380, 1/3		220, 1/3		380, 1/3	
Process	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK
Input capacity (KVA)	8	6.5	8	6.5	18	13.5	18	13.5	26	17	25	16	59	43	58	44
Open circuit voltage (V)	85.5		82		67		65.5		75		78		83		87	
Output current (A)	2~300	2~200	2~300	2~200	3~500	3~340	3~500	3~340	3~600	3~400	3~600	3~400	15~1000	20~700	15~1000	20~700
Duty cycle (%)	60				60				60				60			
Dimension (mm)	260 X 500 X 360				360 X 710 X 570				360 X 710 X 570				440 X 1100 X 800			
Weight (kg)	23				51				57				130			
Function	• Digital memory function (10 slots) • Ideal for thin plate welding with precision arc performance				• Best welding quality for pipe welding with pulse function • Digital memory function (10 slots)				• Rectangle Heat sink and three cooling fans delivers high durability • Best welding quality for pipe welding with pulse function • Digital memory function (10 slots)				• Rectangle Heat sink and three cooling fans delivers high durability • Best welding quality for pipe welding with pulse function • Excellent performance for automation welding • Digital memory function (10 slots)			

Professional AC/DC PULSE TIG Welder

Feature

- Optimized for welding mild steel, stainless steel for welding mild steel, stainless steel, aluminium and galvanized steel
- AC, DC, AC+DC Function
- Best welding quality for pipe welding with pulse function
- Full digital control and user friendly interface
- Multi-functional Digital remote controller (Optional)
- Excellent performance for automation welding
- Ideal for thin plate welding with precision arc performance

Specifications

	200PA2		350PA3				500PA3			
Input voltage (V, PH)	220, 1		220, 1/3		380, 1/3		220, 1/3		380, 1/3	
Process	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK
Input capacity (KVA)	7	5	11	8	11	8.5	20	15	20	14
Open circuit voltage (V)	81		68				69		66.5	
Output current (A)	2~200	2~130	3~350	3~230	3~350	3~230	3~500	3~330	3~500	3~330
Duty cycle (%)	60		60				60			
Dimension (mm)	255 X 500 X 365		360 X 710 X 570				360 X 710 X 570			
Weight (kg)	25.5		60				64			
Function	• Digital memory function (10 slots) • AC+DC Pulse function • Ideal for thin aluminum plate welding with cleaning and ac frequency control		• Digital memory function (10 slots) • Ideal for thick aluminum plate welding • Ideal for aluminum plate welding with cleaning and ac frequency control				• Digital memory function (10 slots) • Ideal for thick aluminum plate welding • Ideal for aluminum plate welding with cleaning and ac frequency control			

Inverter DC TIG Welder

Feature

- High dulability and stability by patented transformer
- Non contact arc start (HF start)
- Crater ON/OFF, MMA Function
- Down slope still on during Crater OFF

200LT

300LT2

350LT CE

400LT3

▪ Specifications

	200LT	300LT2	350LT CE		400LT3	
Input voltage (V, PH)	220, 1	220, 1	220, 1/3	220/380, 1/3	220/380/440, 1/3	
Process	TIG / STICK	TIG / STICK	TIG / STICK	TIG / STICK	TIG	STICK
Input capacity (KVA)	6 / 3.9	7 / 6.5	8.5 / 6.5	8 / 6	13	6.5
Open circuit voltage (V)	73	78	78.5	67@380 Input	66@380 Input	
Output current (A)	10~200 / 20~150	10~250 / 20~180	10~300 / 20~200	10~300 / 20~200	10~400	20~280
Duty cycle (%)	40	50	50		60	
Dimension (mm)	180 X 400 X 280	220 X 470 X 290	290 X 490 X 435		350 X 730 X 530	
Weight (kg)	12	18	22	24	47	
Function	• Portable and Rugged • Optimized for welding up to 5mm mild steel and stainless steel • PRE-SET : Easy to set and check welding current	• Portable and Rugged • Down slope still on during Crater OFF • PRE-SET : Easy to set and check welding current	• High dulability and stability by patented transformer • Optimized for welding mild steel and stainless steel • Crater ON/OFF, MMA Function • Arc spot, Pulse function		• Optimized for using at plant and shipbuilding yard with high duty cycle • Optimized for TIG and Stick welding for pipe with best welding quality • Maximum torch cable extension : 100m • Adjust welding current by remote controller (Optional)	

500LT3 CE

600LT3

500LTP

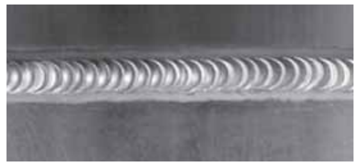
600LTP

▪ Specifications

	500LT3 CE	600LT3	500LTP	600LTP
Input voltage (V, PH)	220/380/440, 1/3	220/380/440, 1/3	220/380/440, 1/3	220/380/440, 1/3
Process	TIG / STICK	TIG / STICK	TIG / STICK	TIG / STICK
Input capacity (KVA)	19.5 / 13	26.5 / 17.5	19 / 11	26.5 / 17.5
Open circuit voltage (V)	65@380 Input	58@380 Input	66@380 Input	58@380 Input
Output current (A)	15~500 / 20~340	15~600 / 20~400	15~500 / 20~340	15~600 / 20~400
Duty cycle (%)	60	60	60	60
Dimension (mm)	398 X 770 X 627	398 X 830 X 627	398 X 770 X 627	398 X 830 X 627
Weight (kg)	58	67	58	65
Function	• Optimized for using at plant and shipbuilding yard with high duty cycle • Optimized for TIG and Stick welding for pipe with best welding quality • Maximum torch cable extension : 100m • Applied Welding Current and Voltage display • Adjust welding current by remote controller (Optional)	• Optimized for using at plant and shipbuilding yard with high duty cycle • Optimized for TIG and Stick welding for pipe with best welding quality • Maximum torch cable extension : 100m • Applied Welding Current and Voltage display • Adjust welding current by remote controller (Optional)	• Optimized for using at plant and shipbuilding yard with high duty cycle • Optimized for TIG and Stick welding for pipe with best welding quality • Built in function of Pulse TIG and suitable for welding pipe and cast • Adjust welding current by remote controller (Optional)	

LONGRUN®

Inverter AC / DC TIG Welder



Feature

- Non contact arc start (HF start)
- Built in function of Pulse TIG and suitable for welding pipe and cast
- Down slope still on during Crater OFF
- Over-load protect function

▪ Specifications

	350LA		500LA		600LA	
Input voltage (V, PH)	220/380/440, 1/3		220/380/440, 1/3		220/380/440, 1/3	
Process	TIG	STICK	TIG	STICK	TIG	STICK
Input capacity (KVA)	10.5	6.5	20	13.5	22.5	14.5
Open circuit voltage (V)	58@380 Input		59@380 Input		58@380 Input	
Output current (A)	10~350	20~200	14~500	20~340	15~600	20~400
Duty cycle (%)	60		60		60	
Dimension (mm)	398 X 770 X 627		398 X 770 X 627		398 X 830 X 627	
Weight (kg)	61		66		70	
Function	· Suitable for welding mild steel, stainless steel and aluminium by both AC and DC TIG welding · High duty cycle for welding aluminum by sufficient capacity of transformer · Cleaning control, AC Frequency control · Adjust welding current by remote controller (Optional)		· Suitable for welding mild steel, stainless steel and aluminium by both AC and DC TIG welding · High duty cycle for welding aluminum by sufficient capacity of transformer · Cleaning control, AC Frequency control · Adjust welding current by remote controller (Optional)		· Suitable for welding mild steel, stainless steel and aluminium by both AC and DC TIG welding · High duty cycle for welding aluminum by sufficient capacity of transformer · Cleaning control, AC Frequency control · Adjust welding current by remote controller (Optional)	

▪ Specifications

	350LA2				500LA2				600LA2			
Input voltage (V, PH)	220, 1/3		380/440, 1/3		220, 1/3		380/440, 1/3		220, 1/3		380/440, 1/3	
Process	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK
Input capacity (KVA)	11	8	10.5	8.5	20	15	19	13.5	24	15	23	14
Open circuit voltage (V)	69		67		69		67		70		68	
Output current (A)	10~350	20~200	10~350	20~200	10~500	20~340	10~500	20~340	10~600	20~400	10~600	20~400
Duty cycle (%)	60				60				60			
Dimension (mm)	398 X 770 X 627				398 X 770 X 627				398 X 830 X 627			
Weight (kg)	61				66				70			
Function	· Maintain stable AC Arc characteristics by perfect cleaning control technology · User-friendly interface · Ideal for thin plate welding with precision arc performance · PRE-SET : Easy to set and check welding current				· Maintain stable AC Arc characteristics by perfect cleaning control technology · User-friendly interface · Ideal for thin plate welding with precision arc performance · RE-SET : Easy to set and check welding current				· Maintain stable AC Arc characteristics by perfect cleaning control technology · User-friendly interface · Ideal for thin plate welding with precision arc performance · PRE-SET : Easy to set and check welding current			

Feature

- AC+DC TIG Welding
- Digital + Analog control
- Digital memory function (10 slots)

Digital Multi Process Welder

350PMA

500PMA

Specifications

Input voltage (V, PH)	220, 1/3			380, 1/3		
Process	AC/DC TIG	CO2	STICK	AC/DC TIG	CO2	STICK
Input capacity (KVA)	11	18	15	10	17	14
Open circuit voltage (V)	72	70	81	68	67	71
Output current (A)	10~350	50~350	10~350	10~350	50~350	10~350
Duty cycle (%)	60					
Dimension (mm)	416 X 694 X 788					
Weight (kg)	83					
Function	• Multi Process Welding (TIG-AC/DC, MIG/MAG, STICK-AC/DC) • Full digital control and user friendly interface • All welding process is possible after one installation • Optimized for educational purpose at Welding Institution					

Input voltage (V, PH)	220, 1/3			380, 1/3		
Process	AC/DC TIG	CO2	STICK	AC/DC TIG	CO2	STICK
Input capacity (KVA)	18	25.1	14	17	24.5	13.5
Open circuit voltage (V)	72	70	81	70	68	78
Output current (A)	10~500	50~500	10~350	10~500	50~500	10~350
Duty cycle (%)	60					
Dimension (mm)	416 X 694 X 788					
Weight (kg)	85					
Function	• Multi Process Welding (TIG-AC/DC, MIG/MAG, STICK-AC/DC) • Full digital control and user friendly interface • All welding process is possible after one installation • Optimized for educational purpose at Welding Institution					

Inverter Micro TIG Welder

150LMT2

Specifications

Input voltage (V, PH)	220, 1
Input capacity (KVA)	2.2
Open circuit voltage (V)	75
Output current (A)	1~100
Duty cycle (%)	100
Dimension (mm)	255 X 500 X 360
Weight (kg)	21
Function	• Delicate and uniformed control of low output current 1 Amp. • Ideal for 0.2mm thin plate welding • Ideal for micro and precise welding with Pre-set function

Plasma Power Supply

1030LPS

▪ Specifications

Input voltage (V, PH)	220, 3
Capacity [Max] (kW)	30
Load Current [Max] (A)	100
Open Load Voltage [Max] (VDC)	630
Rated Load Voltage [Max] (VDC)	< 300
HF HV (V)	10,444
Dimension (mm)	267 X 560 X 600
Weight (kg)	62
Function	· High efficient plasma power supply · Output voltage and amperage can be changed according to the use · High duty cycle for 365 days full loading · Various torches can be available · Applicable to various industries such as hazardous waste, waste gas, metal melting device

Weld Cleaner

50MC

▪ Specifications

Input voltage (V, PH)	220, 1
Ouput max	1200
Input capacity (KVA)	–
Output control range (%)	0~100
Dimension (mm)	190 X 340 X 290
Weight (kg)	12
Function	• Cleaning surface after stainless steel welding • Cleaning aluminum oxide • Select 4 ways output wave (AC High, AC Low, DC+, DC-)

Inverter Plasma Welder

200PW 300PW

▪ Specifications

	200PW	300PW
Input voltage (V, PH)	220, 3	220, 3
Input capacity (KVA)	15	20
Open current (A)	3~200	5~300
Pilot gas (L/min)	0.3~3	0.3~3
Shielding gas (L/min)	2~20	2~20
Duty cycle (%)	100	100
Dimension (mm)	420 X 800 X 710	420 X 800 X 710
Weight (kg)	45	50
Function	• Suitable to weld for accurate parts • Easy to control all parameters by digital control panel • Easy to connect with automatic machine • 100 welding conditions can be loaded from memory chip for each working • Full digital control	

Plasma Console

1000LPC

▪ Specifications

Input voltage (V, PH)	220, 1
Input capacity (KVA)	4
Output current (A)	3~30
Open circuit voltage (V)	70~80
Duty cycle (%)	100
Dimension (mm)	350 X 710 X 410
Weight (kg)	55
Function	• Suitable for high accuracy and precise work, low damage and abrasion • Able to plasma welding with TIG welder • Suitable for consecutive automatic work and pipe welding • Optimized for thin plate welding • Excellent performance for overlay welding in high current

CO_2 / MIG WELDER

GMAW

Gas metal arc welding (GMAW, MAG-MIG) is
a welding process in which an electric arc forms
between a consumable wire electrode and the workpiese metal(s),
which heats the workpiece metal(s), causing them to melt and join.
Along with the wire electrode, a shielding gas
feeds through the welding gun, which shields the process
from contaminants in the air. GMAW provides faster welding time
compared to other welding processes such as SMAW and GTAW.

- Various products range : MAG-MIG, MIG, Double Pulse MIG
- Rectangle Heat sink and three cooling fans delivers high durability

03

CO_2/MIG WELDER
(GMAW)

Digital MIG/ TIG/STICK Welder

350LCT

500LCT

Specifications

Input voltage (V, PH)	220, 1/3			380, 1/3			220, 1/3			380, 1/3		
Process	DC TIG	CO2	STICK	DC TIG	CO2/MAG	STICK	DC TIG	CO2/MAG	STICK	DC TIG	CO2/MAG	STICK
Input capacity (KVA)	11	18	15	10	17	14	18	25.1	14	17	24.5	13.5
Open circuit voltage (V)	72	70	81	68	67	71	72	70	81	70	68	78
Output current (A)	10~350	50~350	10~350	10~350	50~350	10~350	10~500	50~500	10~350	10~500	50~500	10~350
Duty cycle (%)	60						60					
Dimension (mm)	416 X 788 X 694						416 X 788 X 694					
Weight (kg)	82						84					
Function	• Multi Process Welding (TIG-DC, MIG/MAG, STICK-DC) • All welding process is possible after one installation • Stable welding quality by Full digital control • Memory function • Low spatters and stable welding start by start control technology • Optimized for educational purpose at Welding Institution						• Multi Process Welding (TIG-DC, MIG/MAG, STICK-DC) • All welding process is possible after one installation • Stable welding quality by Full digital control • Memory function • Low spatters and stable welding start by start control technology • Optimized for multi purpose welding and automation welding					

Digital MAG-MIG Welder

Feature

- Pulse MIG-MAG
- Stable welding quality by Full digital control
- Memory function
- Low spatters and stable welding start by start control technology

350LDC

500LDC

600LDC

Specifications

Input voltage (V, PH)	220, 1/3	380, 1/3	220, 1/3	380, 1/3	220, 3	380, 3
Process	CO2		CO2		CO2	
Input capacity (KVA)	15	14.5	25	24.5	33	32.5
Open circuit voltage (V)	70	67	70	67	70	67
Output current (A)	50~350	50~350	50~500	50~500	50~600	50~600
Duty cycle (%)	60		60		60	
Dimension (mm)	360 X 710 X 570		360 X 710 X 570		360 X 710 X 570	
Weight (kg)	52		53		58	
Function	• PRE-SET : Easy to set and check welding current and voltage • Stable welding quality and low spatters by Full digital control • MMA Function		• PRE-SET : Easy to set and check welding current and voltage • Stable welding quality and low spatters by Full digital control • Ideal for automation welding • MMA Function			

LONGRUN®

Inverter MAG-MIG Welder

Feature

- Rectangle Heat sink and three cooling fans delivers high durability
- Energy saving and high efficiency by IGBT Inverter control technology
- Low spatter with stable arc control
- Over-load and Over-current protect function
- Over voltage and low voltage protect function

Specifications	350SLC2	350LC3 CE	500LC3 CE	600LC3 CE
Input voltage (V, PH)	220/380, 1/3	220/380/440, 1/3	220/380/440, 1/3	380/440, 3
Input capacity (KVA)	14.5	15	26	31
Open circuit voltage (V)	70@380 Input	67@380 Input	71@380 Input	72@380 Input
Output current (A)	50~300	50~350	50~500	50~600
Output voltage (V)	12~32	16~35	16~40	16~44
Duty cycle (%)	40	60	60	60
Dimension (mm)	290 X 480 X 440	350 X 730 X 530	398 X 770 X 627	398 X 830 X 627
Weight (kg)	26	41	57	66
Function	• Portable and light weight • Optimized for sheet welding of mild and stainless steel • Low spatter with stable arc control • Arc characteristic control • Wire 0.8~1.2mm	• Ideal for sheet metal working • Low spatter with stable arc control • Arc characteristic control • Wire 0.9~1.2mm	• Ideal for steel structure welding • Low spatter with stable arc control • Arc characteristic control • MMA Function • Wire 0.9~1.4mm	• Ideal for heavy duty welding • Low spatter with stable arc control • Arc characteristic control • MMA Function • Wire 0.9~1.6mm

Specifications	600LCG2	650LCG2
Input voltage (V, PH)	220/380/440, 1/3	380/440, 3
Input capacity (KVA)	34	31.5
Open circuit voltage (V)	72@380 Input	70@380 Input
Output current (A)	50~600	50~650
Output voltage (V)	16~44	16~44
Duty cycle (%)	60	100
Dimension (mm)	398 X 830 X 627	400 X 930 X 730
Weight (kg)	66	101
Function	• Ideal for heavy duty welding • Low spatter with stable arc control • Arc characteristic control • Gouging Function • Wire 0.9~1.6mm	• Ideal for heavy duty welding (Duty cycle 100%) • Low spatter with stable arc control • Arc characteristic control • Gouging Function • Wire 0.9~1.6mm

Thyristor MAG-MIG Welder

Feature

- Built in patent transformer with high duty cycle
- Excellent welding performance by new control circuit
- Incorruptible painting and metal
- Crater control function (Current and voltage)

▪ Specifications

	500TC2	600TC2	610TC2	800TC2	1000TC2
Input voltage (V, PH)	220/380, 3 (220/380/440, 3)	220/380, 3 (220/380/440, 3)	220/380, 3 (220/380/440, 3)	220/380, 3 (220/380/440, 3)	220/380, 3 (220/380/440, 3)
Input capacity (KVA)	32	43	43	57	80
Open circuit voltage (V)	68@380 Input	68@380 Input	75@380 Input	80@380 Input	80@380 Input
Output current (A)	60~500	60~600	60~600	60~600	60~1000
Output voltage (V)	12~42	12~48	12~48	18~52	18~52
Duty cycle (%)	70	70	100	70	70
Dimension (mm)	500 X 700 X 870	500 X 700 X 870	500 X 740 X 900	500 X 740 X 900	610 X 840 X 1030
Weight (kg)	170	190	195	230	280
Function	• Built in patent transformer with high duty cycle • Low spatter with stable arc control • Wire 0.9~1.4mm	• Built in patent transformer with high duty cycle • Low spatter with stable arc control • Wire 0.9~1.6mm	• Built in patent transformer with high duty cycle • Low spatter with stable arc control • Gouging function • Wire 0.9~2.0mm		

Inverter MIG Welder

Feature

- Rectangle Heat sink and three cooling fans delivers high durability
- Energy saving and high efficiency by IGBT Inverter control technology
- Low spatter with stable arc control
- Over-load and Over-current protect function
- Over voltage and low voltage protect function

▪ Specifications

	350LM3	500LM3	600LM3
Input voltage (V, PH)	220/380/440, 1/3	220/380/440, 1/3	220/380/440, 1/3
Input capacity (KVA)	15	26	34
Open circuit voltage (V)	67@380 Input	71@380 Input	72@380 Input
Output current (A)	50~350	50~500	50~600
Output voltage (V)	16~35	16~40	16~44
Duty cycle (%)	60	60	60
Dimension (mm)	350 X 720 X 530	398 X 770 X 627	398 X 830 X 627
Weight (kg)	41	57	66
Function	• Optimized for welding stainless steel and aluminium • Low spatter with stable arc control • Ideal for manufacturing Euro form • Wire 1.2mm	• Optimized for welding stainless steel and aluminium • Low spatter with stable arc control • Ideal for manufacturing Euro form • Wire 1.2/1.6mm	• Optimized for welding stainless steel and aluminium • Low spatter with stable arc control • Ideal for manufacturing Euro form • Wire 1.2/1.6mm

LONGRUN®

Inverter PULSE MIG Welder

Feature

- Easy to verify output voltage and current by digital ammeter
- Adjustable feeding speed on No-load
- Full digital control and user friendly interface
- Energy saving and high efficiency by IGBT Inverter control technology
- Low spatter with stable arc control
- Over-load and Over-current protect function
- Over voltage and low voltage protect function

Specifications

500LMP	
Input voltage (V, PH)	380±10%, 3
Output current (A)	500
Input capacity (KVA)	25
Input current (A)	46A
Open circuit voltage (V)	80
Output current range (A)	25~500
Output voltage range (V)	14~50
Duty cycle (%)	60
Wire diameter (mm)	Ø0.8, Ø1.0, Ø1.2, Ø1.6
Dimension (mm)	360 X 710 X 570
Weight (kg)	54
Function	• Double-pulse function • Able to weld stainless steel and aluminium • Stable welding quality by Full digital control • Saving power consumption by high-tech IGBT • Digital memory function • Welding diameter selection • Welding wire diametar selection

Wire feeder

- Box type wire feeder and wire spool cover protect roller and wire from the outside
- Stable wire feeding by communication of 4 rolls encoder motor
- It can be used up to 20m distance by separating feeder with one-touch fixed type

Main power source (500LMP)

- Full digital control
- Easy to set and save welding conditions
- Welding condition is set automatically selecting only welding material and wire type
- Achieve the best welding conditions by simple adjustment (Synergic)

Water cooler

- Excellent cooling efficiency by using high performance motor and radiator
- Pressure adjustable up to 3.5kgf/㎠

Trolley

- Convenient to move with All-in-one (Wire feeder + Power source + Water cooler + Trolley)
- Minimized installation area

- All-in-one (Wire feeder + Power source + Water cooler + Trolley)

PLASMA CUTTER

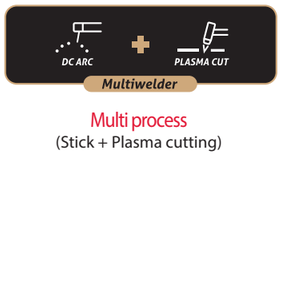
PLASMA CUTTER

Plasma cutting is a process that cuts through electrically conductive materials by means of an accelerated jet of hot plasma. Typical materials cut this process include steel, aluminum, brass and copper though other conductive metals may be cut as well. Plasma cutting is often used in fabrication and welding shops, automotive repair and restorations, industrial construction, salvage and scrapping operations. Due to the high speed, precision cuts, combined with low cost of operation, plasma cutting sees a widespread usage from large scale industrial CNC applications down to small hobbyist shops.

- Various products range : Multi-function welder (TIG, Plasma, MMA) Plasma cutting (70A ~ 200A)
- Patented cutting torch delivers high precision cutting quality (WT Model)

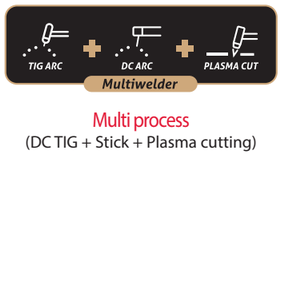
04
PLASMA CUTTER

Inverter DC TIG / Stick & Plasma Cutter



Multi process
(Stick + Plasma cutting)

40CLD



Multi process
(DC TIG + Stick + Plasma cutting)

40CLT

▪ Specifications

	40CLD		40CLT		
Input voltage (V, PH)	220, 1		220, 1		
Function	STICK	PLASMA CUTTING	TIG	STICK	PLASMA CUTTING
Input capacity (KVA)	7.5	3.5	6	7.5	3.5
Open circuit voltage (V)	78.5	336	74.5	74.5	267.5
Output current (A)	10~200	15~40	10~200	10~200	15~40
Duty cycle (%)	40		40		
Dimension (mm)	280 X 480 X 310		280 X 480 X 310		
Weight (kg)	21		22		
Function	• Potable size and light weight • Suitable for using at any place by plug type of 220V, single phase ■ DC STICK WELDER • Welding rod : 4mm • HOT START FUNCTION : Instantly increase output current for perfect arc start ■ PLASMA CUTTER • Air compressor Built in • Suitable for cutting 10mm of steel plate with output current 40A LONGRUN CLD SERIES · IGBT CONTROL · 50/60Hz · STICK · PLASMA CUTTING · CC · DC · BUILT IN		■ DC TIG WELDER • Suitable for welding up to 5mm mild steel and stainless steel • Non contact arc start (HF START) • Down slope still on during Crater OFF • Weldable under 5mm with high current 200A • Potable size and light weight • Suitable for using at any place by plug type of 220V, single phase ■ DC STICK WELDER • Welding rod : 4mm • HOT START FUNCTION : Instantly increase output current for perfect arc start ■ PLASMA CUTTER • Air compressor Built in • Suitable for cutting 10mm of steel plate with output current 40A LONGRUN CLT SERIES · IGBT CON ROL · 50/60Hz · STICK · TIG · PLASMA CUTTING · CC · DC · BUILT IN		

Inverter Air Plasma Cutter (Compressor)

Feature

· Potable size and light weight
· Suitable for using at any place by plug type of 220V, single phase
· Ideal for Deck, Duct and Handrail construction

30CLP

60CLP

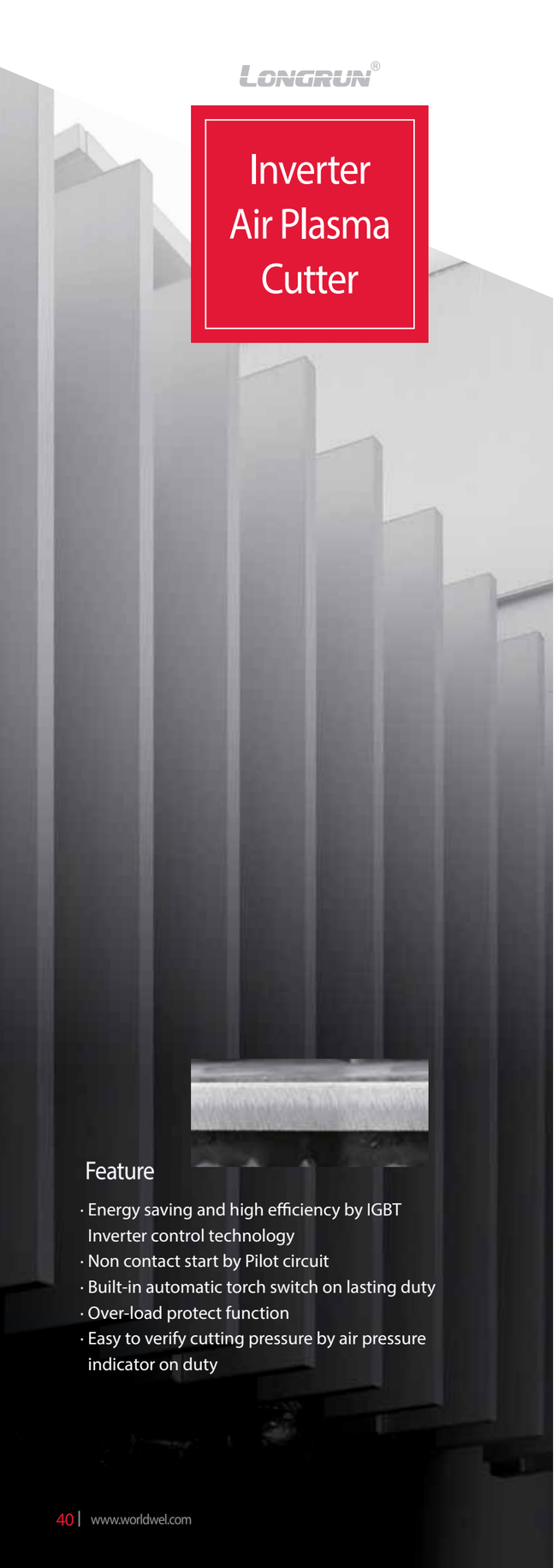
70CLP

▪ Specifications

	30CLP	60CLP	70CLP
Input voltage (V, PH)	220, 1	220, 1	220, 1
Input capacity (KVA)	3.3	8	8
Open circuit voltage (V)	328	302	350
Output current (A)	15~30	20~50	30~60
Duty cycle (%)	40	40	40
Dimension (mm)	210 X 370 X 275	245 X 297 X 420	270 X 450 X 380
Weight (kg)	12.2	22.5	29
Function	• Portable size and light weight • Air compressor Built in • Suitable for using at any place by plug type of 220V, single phase • Ideal for Deck, Duct and Handrail construction • Cutting thickness : 3mm LONGRUN LP SERIES · IGBT CONTROL · 50/60Hz · PLASMA CUTTING · CC · DC · BUILT IN	• Portable size and light weight • Air compressor Built in • Reduced cost due to less nozzle damage • Ideal for Deck, Duct and Handrail construction • Cutting thickness : 10mm LONGRUN LP SERIES · IGBT CONTROL · 50/60Hz · PLASMA CUTTING · CC · DC · BUILT IN	• Portable size and light weight • Air compressor Built in • Suitable for using at any place by plug type of 220V, single phase • Ideal for Deck, Duct and Handrail construction • Cutting thickness : 10mm LONGRUN LP SERIES · IGBT CONTROL · 50/60Hz · PLASMA CUTTING · CC · DC · BUILT IN

LONGRUN®

Inverter Air Plasma Cutter



Feature

- Energy saving and high efficiency by IGBT Inverter control technology
- Non contact start by Pilot circuit
- Built-in automatic torch switch on lasting duty
- Over-load protect function
- Easy to verify cutting pressure by air pressure indicator on duty

▪ Specifications

	70LP		100LP	130LP
Input voltage (V,PH)	220, 1/3	220/380, 1/3	220/380/440, 1/3	220/380/440, 1/3
Input capacity (KVA)	7.5	8.5	13.5	18.5
Open circuit voltage (V)	356	293	275@380 Input	273@380 Input
Output current (A)	30~70		25~100	35~130
Duty cycle (%)	40	40	60	60
Dimension (mm)	290 X 520 X 440		330 X 680 X 530	398 X 770 X 627
Weight (kg)	24	25	52	63
Function	• Portable size and light weight • Non contact start by Pilot circuit • Built-in automatic torch switch on lasting duty • Easy to verify air pressure by air pressure indicator on duty • Maximum cutting thickness : 10mm		• Non contact start by Pilot circuit • Built-in automatic torch switch on lasting duty • Easy to verify cutting current and air pressure by ammeter and airpressure indicator on duty • Maximum cutting thickness : 20mm	• Non contact start by Pilot circuit • Built-in automatic torch switch on lasting duty • Easy to verify cutting current and air pressure by ammeter and airpressure indicator on duty • Maximum cutting thickness : 25mm

▪ Specifications

	150LP	200LP	
Input voltage (V,PH)	220/380/440, 1/3	220, 1/3	380, 3
Input capacity (KVA)	23.5	36.5	36
Open circuit voltage (V)	263@380 Input	313@220 Input	323@380 Input
Output current (A)	50~150	45~200	
Duty cycle (%)	60	60	
Dimension (mm)	398 X 830 X 627	410 X 920 X 750	
Weight (kg)	75	118	
Function	• Non contact start by Pilot circuit • Built-in automatic torch switch on lasting duty • Easy to verify cutting current and air pressure by ammeter and airpressure indicator on duty • Maximum cutting thickness : 40mm	• Ideal for using with CNC cutting machine • Applicable Plasma gouging torch • Maximum cutting thickness : 60mm	

STUD WELDER

ARC STUD WELDER

Arc Stud welding joins a stud and another piece of metal together by heating both parts with an src. The stud is usually joined to a flat plate by using the stud as one of the electrodes.
Stud welding, known as "drawn arc stud wwelding" uses a type of flux called a ferrule, a ceramic ring which concentrates the heat generated, prevents oxidation and retains the molten metal in the weld zone.
On the other hand, there is "short cycle arc stud welding" which has no needs of ferrules depending on welding applications.

Inverter CD Stud Welder

Feature

- Small trace on metal plate by instant welding
- Stable control by SMPS
- Able to charge / discharge when no-load
- Easy to check cable disconnection by connect function

Specifications

	900DST	1200DST	1500DST
Input voltage (V, PH)	220, 1	220, 1	220, 1
Condenser capacity (uF)	132,000	198,000	282,000
Charging voltage (V)	20~100	30~160	30~200
Weldable stud diameter (Φ)	3~6	3~10	3~12
Dimension (mm)	240 X 400 X 310	260 X 460 X 360	280 X 540 X 380
Weight (kg)	13	25	33
Function	• Portable and light weight • Suitable for welding pin or bolt • Able to weld between different metals such as steel, aluminum, stainless steel, copper, etc • Easy to verify voltage before welding by preset function LONGRUN DST SERIES / IGBT CONTROL / 50/60Hz / CD STUD / DC	• Portable and light weight • Suitable for welding pin or bolt • Able to weld between different metals such as steel, aluminum, stainless steel, copper, etc • Easy to verify voltage before welding by preset function LONGRUN DST SERIES / IGBT CONTROL / 50/60Hz / CD STUD / DC	

SCR Arc Stud Welder

Feature

- High duty cycle by sufficient capacity of transformer with patent technology
- Easy to verify output current on duty by ammeter on front panel
- Incorruptible painting and qualified metal

Specifications

	3000JK
Input voltage (V, PH)	220/380/440, 3
Condenser capacity (uF)	180
Charging voltage (V)	6~25
Weldable stud diameter (Φ)	100~3000
Dimension (mm)	0.2~1.4
Weight (kg)	705 X 995 X 1035
	530
Function	• Optimized to weld the bolt, pin on metal instantly without drilling, punching and tapping • Suitable for using at shipbuilding yard, plant and construction works by Φ6~Φ25 stud welding LONGRUN JK SERIES / SCR CONTROL / 50/60Hz / ARC STUD / CC / DC

CD / ARC Stud gun

Specifications

	CD Stud Gun (900DST / 1200DST / 1500DST)
Welding stud	3~12
Length (mm)	230 (Cable : 3m)
Weight (kg)	1.2

Specifications

	Short Cycle Gun	Drawn Arc Gun	Heavy Duty Gun
Welding stud	3~8	3~16	3~25
Length (mm)	290 (Cable : 3m)	260 (Cable : 3m)	460 (Cable : 4m)
Weight (kg)	3.4	3.1	5

LONGRUN®

Inverter Arc Stud Welder

Feature

- Energy saving and high efficiency by IGBT Inverter control technology
- Able to weld the bolt, pin on metal instantly without drilling, punching and tapping
- High duty cycle by sufficient capacity of transformer with patent technology
- Easy to verify output current on duty by ammeter on front panel
- Incorruptible painting and qualified metal

Specifications

	500JK2	1000JK2	1500JK2	2500JK2
Input voltage (V, PH)	220, 1	380/440, 3	380/440, 3	380/440, 3
Input capacity (KVA)	16	35	73	180
Stud range (Φ)	3~8	3~12	3~16	6~25
Current range (A)	50~500	100~1000	100~1500	100~2500
Weld time range (sec)	0.1~1.0	0.1~1.5	0.1~1.5	0.1~1.5
Dimension (mm)	260 X 500 X 360	385 X 890 X 610	385 X 890 X 610	380 X 920 X 740
Weight (kg)	25	69	77	120
Function	• Portable and light weight • Best welding quality by IGBT Inverter control technology • Short cycle / Drawn ARC • Stud diameter : 3~8mm	• Best welding quality by IGBT Inverter control technology • Energy saving and high efficiency • Full digital function : Adjustable welding current and voltage • Long-lasting power and stability with enough capacity • Short cycle / Drawn ARC • Stud diameter : 3~12mm (1000JK2), 3~16mm (1500JK2)		• Best welding quality by IGBT Inverter control technology • Energy saving and high efficiency • Full digital function : Adjustable welding current and voltage • Ideal for stud welding for seismic design • Short cycle / Drawn ARC • Stud diameter : 6~25mm

Model : 2500JK2
Type : Drawn Arc Welding

SUBMERGED ARC WELDER

SAW

Submerged arc welding (SAW) is welding process that covers an electric arc beneath a bed of granulated flux by continously feeding consumable solid or tubular (metal cored) electrodes. The molten weld and the arc zone are protected from atmospheric contamination by being "submerged" under a blanket of granular fusible flux. SAW is normally operated in the automatic or mechanized mode and it makes High speed welding SAW is has advantages : High operating factors in mechanized applications, deep weld penetration, high deposition rates.

AC Submerged Arc Welder

Feature

- Ideal welding quality for wide industry yard such as ship building, construction
- Excellent welding quality by sufficient capacity of transformer with patent technology
- High quality by AC-DC power supply combination (TANDEM)

1500TAS

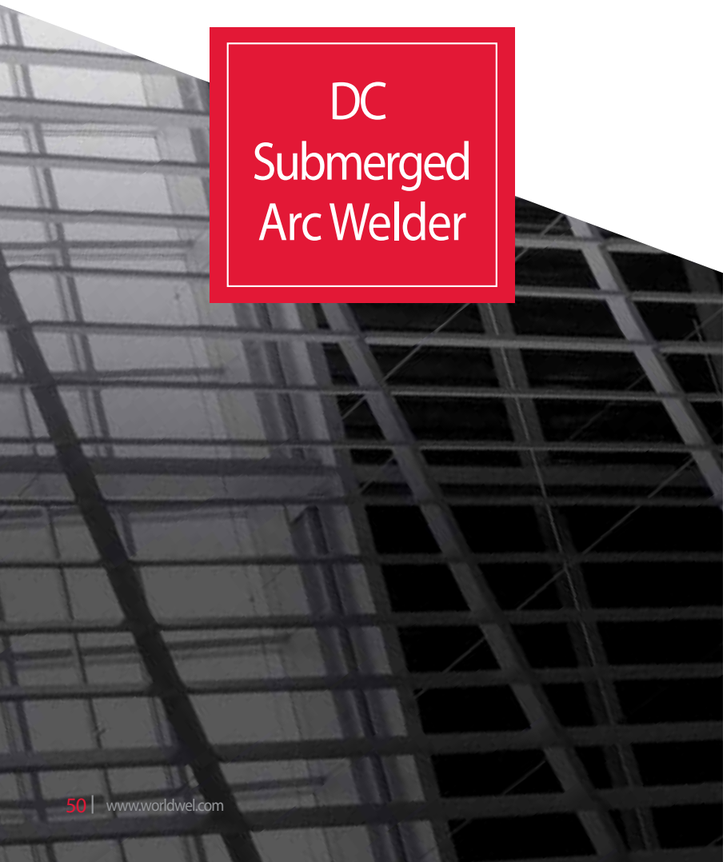
2000TAS

1500WAS

2000WAS

Specifications

	1500TAS	2000TAS	1500WAS	2000WAS
	AC (SCR TYPE)	AC (SCR TYPE)	AC	AC
Input voltage (V, PH)	220/380/440, 1	220/380/440, 1	220/380/440, 1	220/380/440, 1
Input capacity (KVA)	135	180	135	180
Open circuit voltage (V)	95	95	95	95
Output current (A)	150~1500	150~2000	150~1500	150~2000
Duty cycle (%)	80	80	80	80
Dimension (mm)	570 X 1100 X 1430	570 X 1100 X 1430	800 X 1050 X 1400	800 X 1050 X 1400
Weight (kg)	670	690	700	720
Function	• Ideal welding quality for wide industry yard such as ship building, construction • Excellent welding quality by sufficient capacity of transformer with patent technology • High quality by AC-DC power supply combination (TANDEM) • Easy start wth SCR AC output	• Ideal welding quality for wide industry yard such as ship building, construction • Excellent welding quality by sufficient capacity of transformer with patent technology • High quality by AC-DC power supply combination (TANDEM) • Easy start wth SCR AC output	• Ideal welding quality for wide industry yard such as ship building, construction • Excellent welding quality by sufficient capacity of transformer with patent technology • High quality by AC-DC power supply combination (TANDEM) • High durability with moving-core type	



DC Submerged Arc Welder

1000WDS

1500WDS

2000WDS

Specifications

	1000WDS	1500WDS	2000WDS
	DC	DC	DC
Input voltage (V, PH)	220/380/440, 3	220/380/440, 3	220/380/440, 3
Input capacity (KVA)	80	120	160
Open circuit voltage (V)	82	82	82
Output current (A)	100~1000	150~1500	200~2000
Duty cycle (%)	80	80	80
Dimension (mm)	750 X 1100 X 1150	800 X 1050 X 1400	800 X 1050 X 1400
Weight (kg)	415	700	720
Function	• Ideal welding quality for wide industry yard such as ship building, construction • Excellent welding quality by sufficient capacity of transformer with patent technology • High quality by AC-DC power supply combination (TANDEM)	• Ideal welding quality for wide industry yard such as ship building, construction • Excellent welding quality by sufficient capacity of transformer with patent technology • High quality by AC-DC power supply combination (TANDEM)	

Arc Air Gouging Machine

1000WG

1200WG

1500WG

2000WG

▪ Specifications

	1000WG	1200WG	1500WG	2000WG
Input voltage (V, PH)	200/380/440, 3	200/380/440, 3	200/380/440, 3	200/380/440, 3
Input capacity (KVA)	80	95	120	160
Open circuit voltage (V)	90	90	92	92
Output current (A)	20~1000	200~1200	300~1500	300~2000
Gouging rod thickness (Φ)	4~10	4~12	4~16	4~16
Duty cycle (%)	80	80	80	80
Dimension (mm)	565 X 885 X 1050	565 X 885 X 1050	710 X 1010 X 1290	800 X 1050 X 1400
Weight (kg)	335	375	550	580
Function		• Suitable for MIG-MAG welding reforming • Various usage in different formation such as hole expansion, cutting, grooving, bead removal LONGRUN WG SERIES · DIODE CONTROL · 50/60Hz · GOUGING · CC · DC		• Suitable for MIG-MAG welding reforming • Various usage in different formation such as hole expansion, cutting, grooving, bead removal LONGRUN WG SERIES · DIODE CONTROL · 50/60Hz · GOUGING · CC · DC

Feature

- Suitable for MIG-MAG welding reforming
- Various usage in different formation such as hole expansion, cutting, grooving, bead removal
- High duty cycle by sufficient capacity of transformer with patent technology
- Easy to verify output current by ammeter on duty
- Incorruptible painting case

Inverter Submerged Arc Welder

Feature

- Best welding quality by IGBT Inverter control technology
- Energy saving and high efficiency
- Over-load protect function
- Gouging function (Optional)

1200PDS CE

1500PDS CE

▪ Specifications

	1200PDS	1500PDS
Input voltage (V, PH)	220/380/440, 3	220/380/440, 3
Input capacity (KVA)	67	97
Open circuit voltage (V)	82	123
Output current (A)	DC 100~1000	DC 100~1500
Duty cycle (%)	80	80
Dimension (mm)	420 X 1060 X 800	420 X 1060 X 840
Weight (kg)	150	170
Function	• Best welding quality by IGBT Inverter control technology • Energy saving and high efficiency • Over-load protect function LONGRUN PDS SERIES · IGBT CONTROL · 50/60Hz · GOUGING · SUBMERGED · CC · DC	• Best welding quality by IGBT Inverter control technology • Energy saving and high efficiency • Over-load protect function LONGRUN PDS SERIES · IGBT CONTROL · 50/60Hz · GOUGING · SUBMERGED · CC · DC

Welding Tractor : 45CA
+
Welding Powersource : 1200PDS

Welding Rod Flux Dry Oven Flux Recovery

Welding rod dry oven

Flux dry oven

Flux recovery

▪ Specifications

	LWD100	LWD200	LFD100	LFD200
Input voltage (V, PH)	380V, 3	380V, 3	380V, 3	380V, 3
Input capacity (KVA)	3.3	4.5	3.3	5.4
Dry capacity (kg)	100	200	100	200
Welding rod (mm)	450~550	450~550	–	–
Temperature (℃)	50~400	50~400	50~400	50~400
Control	Electric	Electric	Electric	Electric
Weight (kg)	130	170	85	160
Internal dimension (mm)	320 X 550 X 500	500 X 550 X 600	400 X 440 X 620	550 X 550 X 700
External dimension (mm)	740 X 690 X 830	920 X 690 X 930	890 X 630 X 1330	1050 X 810 X 1480

Seam tracker

▪ Specifications

	WST200	WST300
Rated Loading capacity (kg)	200	200
Input voltage (V,Ph)	AC 110, 1	AC 110, 1
X/Y Tracking range (mm)	400/300	400/300
Tracking speed (mm/min)	150	150
Tracking accuracy (mm)	0.05~0.5	0.05~0.5
Allowable moment (kg-cm)	2000	2000
X/Y Driving motor (W)	90	90
Driving method	Motor Drive – Reducer – Ball Screw – Seam Tracking	Motor Drive – Reducer – Ball Screw – Seam Tracking
Control type	Up, Down, Left, Right, Pull up Right, Both, Left, Full up, Remote control	Up, Down, Left, Right, Pull up Right, Both, Left, Full up, Remote control
Welding type	Submerged (TANDEM / SINGLE)	Submerged (TANDEM / SINGLE)
Weight (kg)	60	60
Function	·Improved working conditions and efficiency ·Clean and uniform welding bead ·Simple operation, minimization of defective rate and labor cost reduction ·Fillet, butt welding device, welding device of square and building structure, round tank straight line and inner and outer welding device	

Submerged Arc Welding Tractor

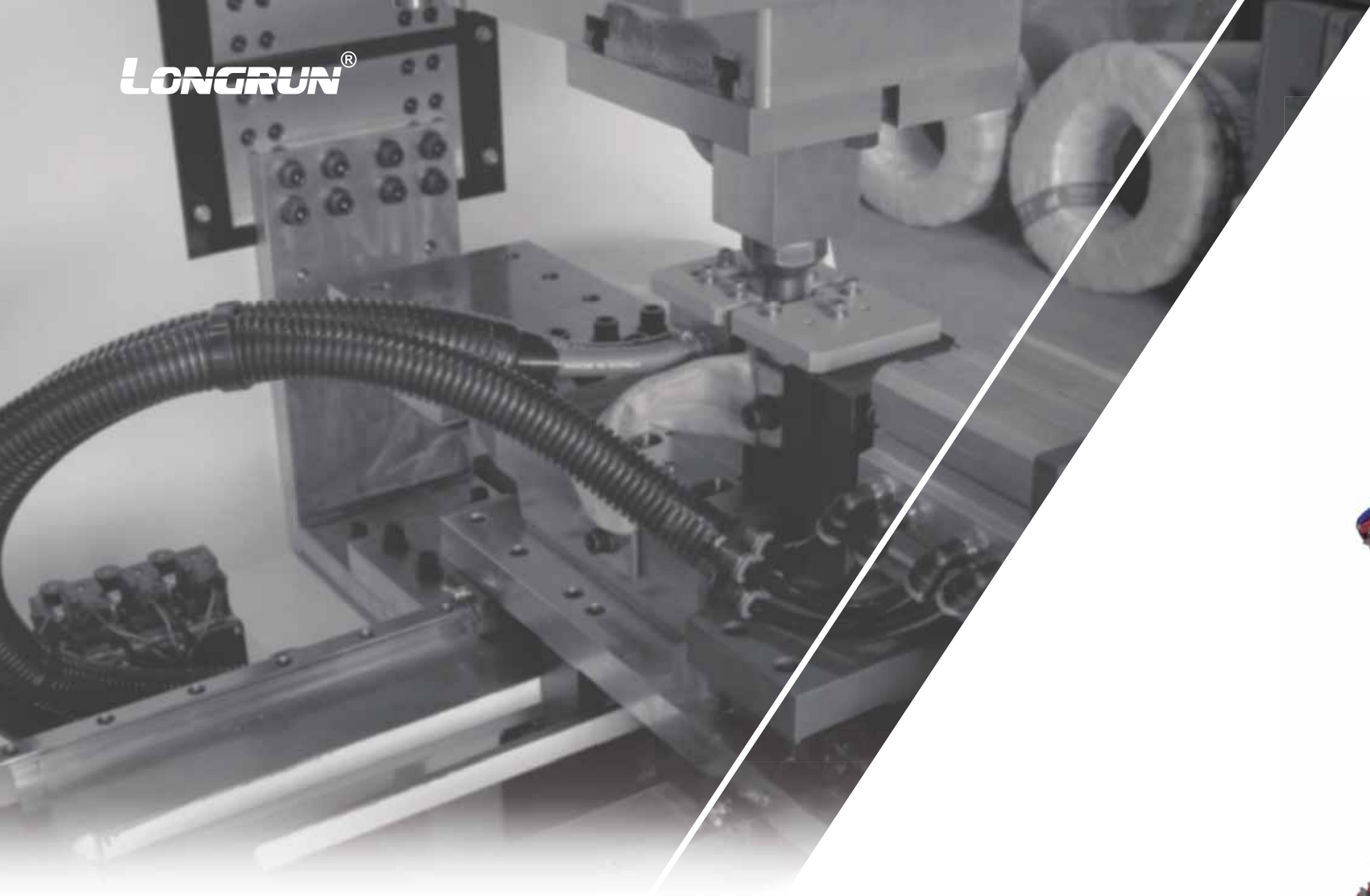
▪ Specifications

	25CT	45CA	LS7
Application wire diameter (Φ)	4.0~6.4	2.4~4.8	2.4~4.8
Welding speed (cm/min)	0~150	0~100	0~100
Nozzle adjustment range (V/H)	75/100	50/50	150/100
Hopper capacity (L)	12	6	6
Wire feeding motor (W)	DC 100	DC 60	DC 125 (Print)
Speed control	SCR Control	SCR Control	SCR Control
Welding power	AC or DC	AC or DC	AC or DC
Applicable welding	TANDEM	BUTT JOINT	Inner / Outer circular tank, pipe
Dimension (mm)	1530 X 730 X 1500	960 X 450 X 690	920 X 570 X 860
Weight (kg)	170	50	35
Function	• Ideal to use wide welding industry such as shipbuilding, steel frame and automobile industry • High quality bead by steady welding • Excellent strength, hardness and efficient operation of panel centralization • High productivity with tandem welding system • Smooth wire feeding by powerful motor • Wide adjustment of electrode gap and angle • Welding auto travel mode (Auto start / finish) • Ideal for H-Beam Fabricating (25CT) • Auto flux recovery system (25CT, Optional) • Extra wire reel 70kg (25CT, Optional)		• Ideal to use wide welding industry such as shipbuilding, steel frame and automobile industry • High quality bead by steady welding • Excellent strength, hardness and efficient operation of panel centralization • Smooth wire feeding by powerful motor • Wide adjustment of electrode gap and angle • Welding auto travel mode (Auto start / finish) (Optional) • Optimized for welding inner and outer circular tank or pipe with 3 wheels

Tungsten Grinder

▪ Specifications

	200LTG
Input power	200, 1
Grind wheel motor	90W, 3000PRM
Rotator motor	10W, 270RPM
Fuse (A)	3
Dimension (mm)	Main :150 X 310 X 220, Rotator Ø40 X 150
Weight (kg)	Main : 5, Rotator : 0.6
Function	• Precise, quiet and easy to use • Electrode diameters : 1.6mm, 2.0mm, 2.4mm, 3.2mm • Easy and stable to grind by rotation electrode holder • Economical : Diamond wheel moving itself to grind evenly and economically • Weld quality : It improves tungsten life, arc starting, arc stability and produces consistent weld penetration



SPOT WELDER

RSW

Resistance spot welding (RSW) is a process in which contacting metal surfaces are joined by the heat obtained from resistance to electric current. Work-pieces are held together under pressure exerted by electrodes.
The process uses two shaped copper alloy electrodes to concentrate welding current into a small “spot” and to simultaneously clamp the sheets together. Forcing a large current through the spot will melt the metal and form the weld.

07
SPOT WELDER

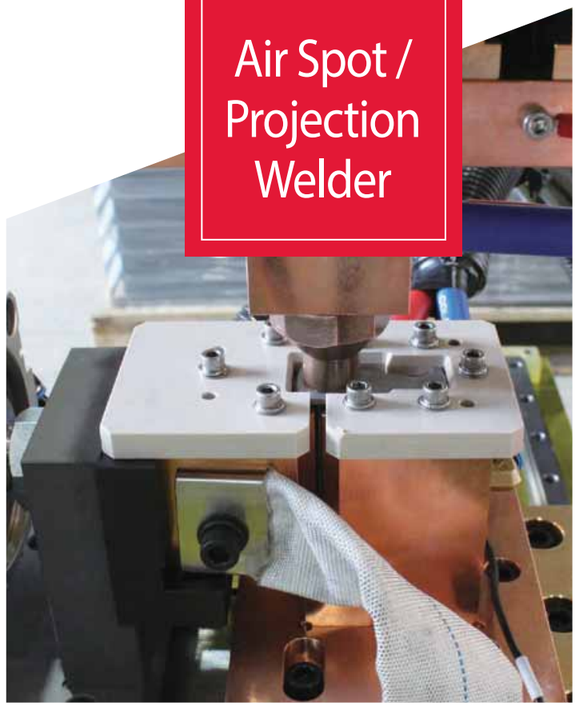
Inverter Spot Welder

Feature

- Auto-sensing and alarming for replacement of TIP dressing
- Built-in USB port for storing and printing
- Built-in Water flowing sensor for proper cooling
- Program Updating service
- Prevention circuit of missing times of SPOT set in initial
- Save Energy 70% more than pre-AC Spot welder
- Digital setting and memorizing welding condition
- Digital control of SPOT pressure

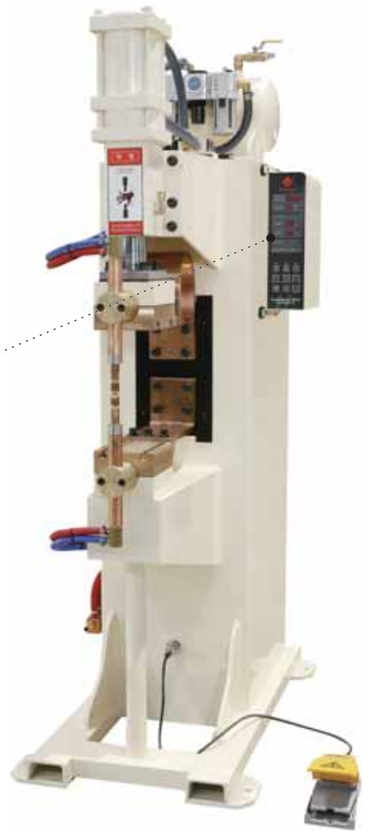
·30000ISP Control display

Air Spot / Projection Welder



·Air Spot welder (150LSP)

·Spot Controller 52ST



▪ Specifications

	20000ISP	30000ISP	50000ISP
Input power (V, PH)	380/440, 3	380/440, 3	380/440, 3
Inverter output voltage (V)	AC 500/600	AC 500/600	AC 500/600
Output frequency (kHz)	1~5	1~5	1~5
Maximum output current (kA)	3~20	6~35	9~60
Maximum output voltage (V)	15	15	15
Duty cycle (%)	10	10	10
Dimension (mm)	800 X 1100 X 2050	800 X 1100 X 2050	800 X 1100 X 2050
Weight (kg)	425	450	475
Function	• Digital setting and memorizing welding condition • Prevention circuit of missing times of SPOT set in initial • Save Energy 70% more than pre-AC Spot welder		

▪ Specifications

	50LSP	75LSP	100LSP	150LSP
Input voltage (V, PH)	220/380/440, 1	220/380/440, 1	220/380/440, 1	220/380/440, 1
Rated capacity (KVA)	50	75	100	150
Max. Short circuit current (A)	18,000	22,000	28,000	40,000
Diameter of Tip (Φ)	16	20	20	20
Feature	uitable for welding up to 1.5mm mild steel, stainless steel and 6mm bolt, nut	Suitable for welding up to 2.5mm mild steel, stainless steel and 8mm bolt, nut	Suitable for welding up to 3.5mm mild steel, stainless steel and 10mm bolt, nut	Suitable for welding 12mm bolt, nut and possible to connect with inverter power supply
Duty cycle (%)	7.20	5.80	6.10	4.70
Weight (kg)	290	505	570	700
Function	• Digital control and built in count function • Welding current control by SCR system • High output with low input by high quality transformer • Memory function to store welding condition (5 slots) • Two-head welding (Optional)			

WATER COOLER & CHILLER

WATER COOLING

A water chiller is a mechanical device used to facilitate heat exchange from water to a refrigerant in a closed loop system. The refrigerant is then pumped to a location where the waste heat is transferred to the atmosphere. Water chiller can be used for cooling down welding torches and other industrial devices.

Water Cooler

Feature

- Cooling system for TIG, MIG torch
- Forced air cooled by radiator
- Built-in High performance pump
- Incorruptible painting case

250WC

350WC

500WC

700WC

▪ Specifications

	250WC	350WC	500WC	700WC
Input voltage (V, PH)	220,1	220,1	220,1	220,1
Output volume (L/min)	5.5	6.5	6.5	6.5
Output pressure (kg/㎠)	1	1~3	1~3	1~3
Cooling capacity (kcal/hr)	250	350	500	700
Tank capacity (ℓ)	12	12	25	25
Cooling method	Radiator	Radiator	Radiator	Radiator
Pump capacity (W)	80	125	125	125
Dimension (mm)	295 X 445 X 350	330 X 530 X 320	330 X 660 X 460	350 X 600 X 640
Weight (kg)	12	18	21	27
Function	• Cooling system for TIG, MIG torch • Forced air cooled by radiator • Effective cooling under 10m torch line by direct connection to torch	• Cooling system for TIG, MIG torch • Forced air cooled by radiator • Effective cooling under 10m torch line by direct connection to torch • Adjustable water pressure and suitable for TIG welding machine		• Cooling system for SPOT welder • Forced air cooled by radiator • Adjustable water pressure and suitable for Spot welding machine • Suitable for high duty working yard

Water Chiller

Feature

- High-powered, silent compressor equipped
- Delicate thermal control
- Compact design
- Built in High capacity pump
- Precision temperature control by digital control system
- Incorruptible painting case

1000WC

1500WC

2000WC

3000WC

5000WC

▪ Specifications

	1000WC	1500WC	2000WC	3000WC	5000WC
Input voltage (V, PH)	220, 1	220, 1	220, 1	220/380/440, 3	220/380/440, 3
Cooling capacity (kcal/hr)	2800~3000	4000~4500	5600~6000	8400~9000	14000~15000
Temperature control range (℃)	10~30	10~30	10~30	10~30	10~30
Cooling water pressure range (kg/㎠)	1~3	1~3	1~3	1~4	1~4
Cooling water tank capacity (ℓ)	25	30	40	75	75
Refrigerant	R-22	R-22 / R407C	R-22 / R407C	R-22 / R407C	R-22 / R407C
Compressor capacity (kw)	0.75 (1hp)	1.25 (1.5hp)	1.5 (2hp)	2.25 (3hp)	3.75 (5hp)
Circulation pump capacity (W)	350	350	350	700	700
Dimension (mm)	475 X 655 X 750	520 X 810 X 860	560 X 810 X 960	640 X 1000 X 1200	640 X 1000 X 1400
Function	• High-powered, silent compressor equipped • Built in High capacity pump • Precision temperature control by digital control system		• High-powered, silent compressor equipped • Built in High capacity pump • Precision temperature control by digital control system		

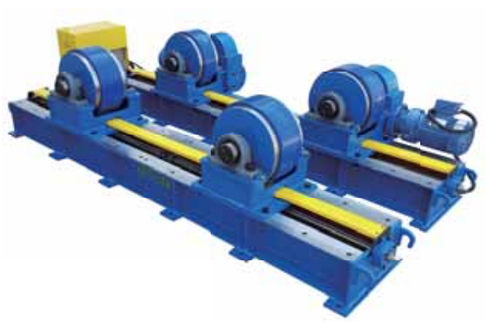
Turn Table / Positioner



▪ Specifications

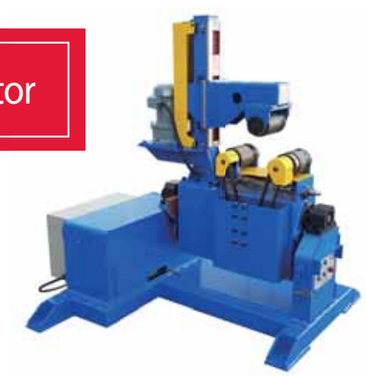
		50TT	100TT	150TT	300TT	500TT
Input voltage (V, PH)		220, 1	220, 1	220, 1	220, 1	220, 1
Load capacity (kg)	Horizontal	50	100	150	200	500
	Vertical	20	40	60	120	200
Tilting angle		0~90	0~90	0~90	0~90	0~90
R.P.M	Rotation	0.5~6	0.5~3	0.8~5	0.5~1.5	0.2~1.1
	Tilt	Manual	Manual	Manual	Handle	Handle
Diameter (mm)		310	310	300	500	600
Dimension (mm)		280 X 400 X 470	280 X 400 X 490	320 X 500 X 465	500 X 830 X 600	645 X 1085 X 715
Weight (kg)		29.5	30	50	280	450
Function		• For welding cylinder, pipe's joint and flange with turning table • Built-in spin direction and speed volume controller • Adjustable table's angle by lever • Maintain turning speed by DC motor and IC control panel				

Turning Roller



Auto Turn Table

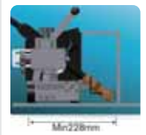
Pipe Rotator



Auto Welding Carriage

▪ Specifications

	CS-51
Input power	AC 100~230V, 50/60Hz
Dimension (mm)	305(W) X 248(L) ~ 346(L) X 299(H)
Weight (kg)	8
Driving Method	4 WHEELS-DRIVEN
Travelling speed (cm/min)	0~98
Travelling Motor	DC 24V, 12W, 5000RPM
Traction Power	20Kg, Angle of inclination 75
Magnetic Power (kg)	32
Up / Down Angle	45±10
Front/Back Distance (mm)	0~32
Up / Down Distance (mm)	0~32
Running Angle	±5
Function	• Fillet both of Stitch and Continuous welding • Minimized gear backlash offers various constant speed/adjustable controls precisely thus the highest quality welding and a long life by means of a Special Motor with a Reducer • Climb up a 75° incline and limit switches stop carriage travel and welding while activating • Crater fill at the beginning and end of welding • Magnet release handle offers easy to mount and dismount • Stitch, Continuous welds and the travel speeds in Cm/Min or Inch/Min programmable in acc with the User Manual • Torches accept both straight and Bent

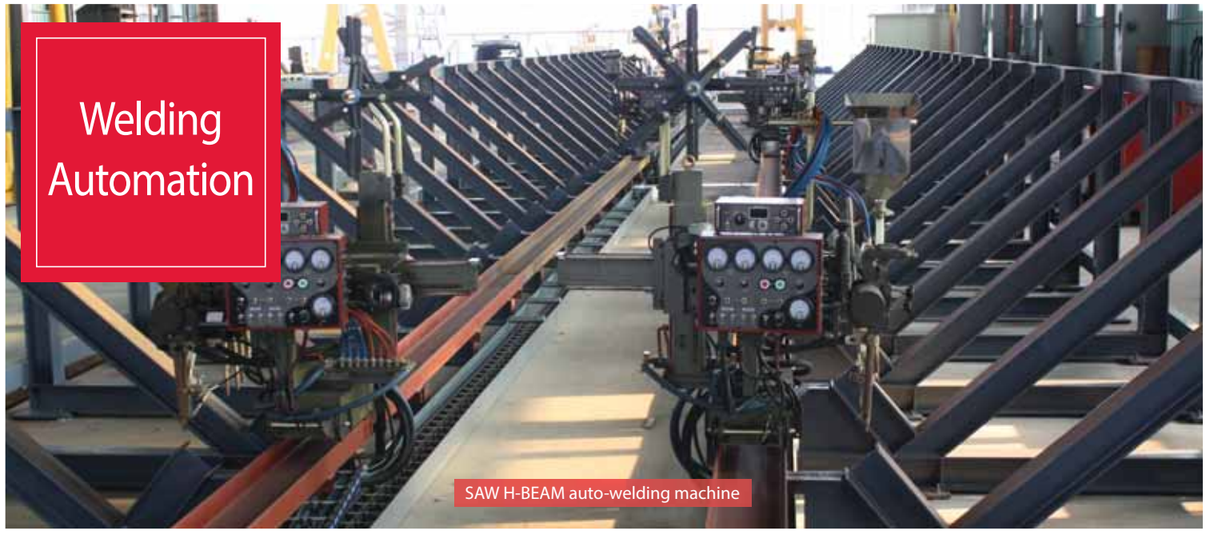




▪ Specifications

		CS-201
Input power		AC 110~230V, 50/60Hz
Dimension (mm)		237(W) X 391(L) ~ 423(L) X 239(H)
Weight (kg)		6.5
Driving Method		RACK-PINION DRIVEN
Travelling speed (cm/min)		0~98cm/±5%
Travelling Motor		DC 24V, 12W, 5000RPM
Up / Down Angle		0~45±10
Front/Back Distance (mm)		0~32
Up / Down Distance (mm)		0~32
Running Angle		±5
Arm Front/Back Distance (mm)		0~120
Rail	Fixing Material / Size	Magnet ON/OFF Type AL/1.5M
Function		• Butt/Fillet, multi-welder driving on the rigid aluminum rail • Magnet On-Off switch type rail offers in-line adjustment easily • Minimized gear backlash offers various constant speed/adjustable controls precisely thus the highest quality welding and a long life by means of a Special Motor with a Reducer • Crater fill at the beginning and end of welding • The travel speed is set either Cm/Min or Inch/Min programmable in acc with the User Manual




Welding Automation

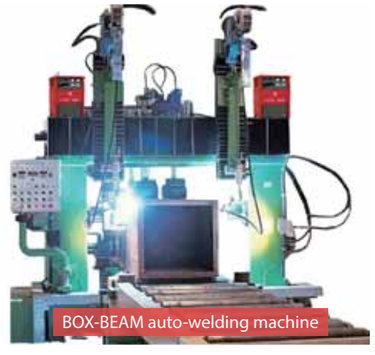

SAW H-BEAM auto-welding machine


SERIES SPOT auto-welding equipment


6 POLE MIG-MAG auto-welding machine


SAW Manipulator auto-welding machine


H-BEAM assembly & welding machine

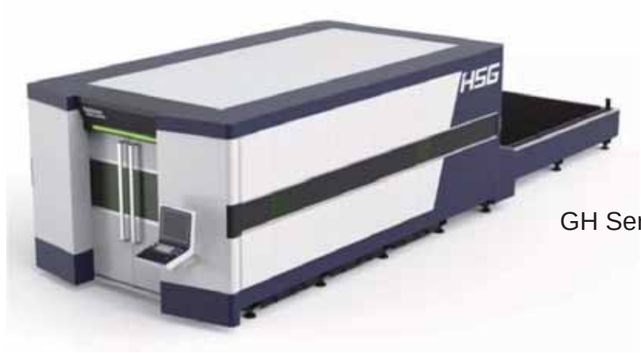

BOX-BEAM auto-welding machine

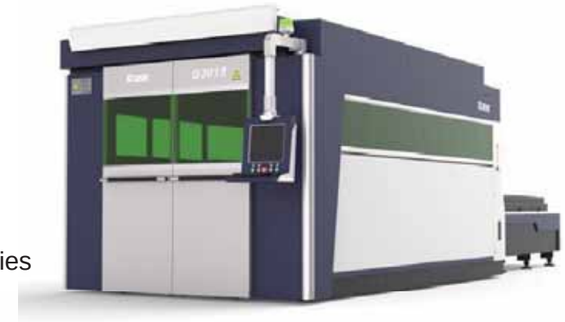

16 POLE MIG-MAG auto-welding machine


MESH SPOT auto-welding machine


METAL PALLET SPOT auto-welding machine

Laser Cutter


GH Series


GA Series

Welding Robot

BINZEL Torch

ABICOR BINZEL®

·AB 180A

·AB 350A

·AB 500A

·MB36KD (Air cooled)

·MB 501D (Water cooled)

EWR (Electric Welding Regulator)

■ Specifications

Function	· After the EWR is installed, the gas is cut off at the end of welding to prevent unnecessary gas waste · Same penetration and more than 50% gas savings · Can be used in parallel with the mechanical gas saver in use

ABICOR BINZEL®

·Tungsten rod

Wire Feeder

·Single Driven (LF-2R)

·Double Driven (LF-4R)

·Double Driven (Water cooled) (LF-MW)

·LF-BX

TIG Accessories

·TIG Torch

·Remote Control

Plasma Cutter Accessories

·Plasma cutter Torch (WTP 100A)

·Plasma cutter Torch (Uni Torch)

MEMO