



LONGRUN[®]
WORLDWEL PRODUCT CATALOGUE

COMPANY INTRODUCTION

WORLDWEL have been stepping ahead to produce many types of hi-tech welding machines such as Thyristor, Inverter, Resistance type welding machine, Plasma cutter and automation welding system since 1990. 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".

WORLDWEL HISTORY

1990

- 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

- Gained KC Certificate for Inverter DC Stick Welder 160LD2
- Gained CE Certificate for Inverter DC Stick Welder 160LD2

2011

- Gained CE Certificate for Inverter DC TIG Welder 200L2, 350LT, 500LT2
- Established Industry knowledge center and new factory(33,000m²)

2012

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

2013

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

2014

- 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
- Gained "Good Design" for 5 models
- Gained CU Certificate for TIG, MIG and MMA

2015

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

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Inverter DC Stick Welder

- HOT START : For more easy and perfect Arc start
- VRD : Voltage Reduction Device
- PRE-SET : Easy to set and check welding current before welding
- Automatic shut down function for low input voltage
- High durability and stability with parts of enough capacity



CE Certificate

Model No. 200LD

Model No. 230LD



CE Certificate

Model No. 200LD2

Electrode: Ø4(Max)



CE Certificate

Model No. 250LD2

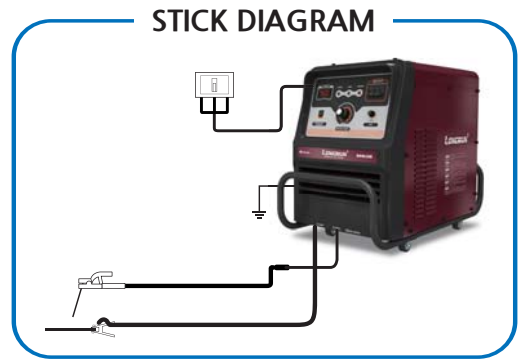


CE Certificate

Model No. 300LD2

Inverter DC Stick Welder

- HOT START : For more easy and perfect Arc start
- VRD : Voltage Reduction Device
- PRE-SET : Easy to set and check welding current before welding
- Automatic shut down function for low input voltage
- High durability and stability with parts of enough capacity
- Set the welding current by remote controller (Option)



STICK WELDER (SWAW)



CE Certificate

Model No. 400LD2

CE Certificate

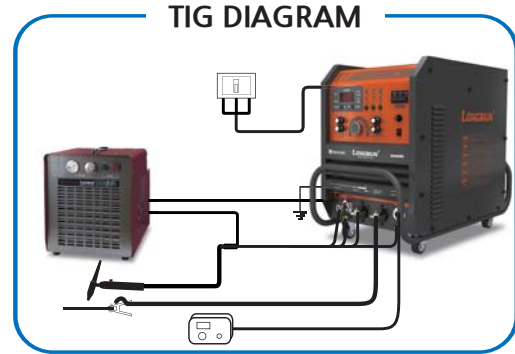
Electrode: Ø6(Max), Ø5(High tensile strength steel)

Model No. 500LD2

MODEL		160LD2	200LD	200LD2	230LD	250LD2	300LD2	400LD2	500LD2	
Input voltage	V, Ph	220, 1					220/380/440, 1/3			
Input capacity	KVA	5	7.8	9	9	11.3	14.8	16.2	24.5	
Open circuit voltage	V	76	78	77	78	80	82	66@380 Input		
Output current	A	20~160	20~185	20~200	20~215	20~250	20~300	40~400	40~500	
Output voltage	V	23	27.4	28	28.6	29	32	36	40	
Duty cycle	%	60								
Dimension (W×D×H)	mm	180×360×280				210×440×290		330×680×530	385×765×610	
Weight	kg	10.5				16.5		38	51	

Professional DC PULSE TIG Welder

- Full digital control and user friendly interface
- Multi functional Digital remote controller
- Digital memory function(10 slots)
- Ideal for thin plate welding with excellent control of low output current



Model No. 300PT2

Model No. 500PT2

Model No. 600PT2

Model No. 1000PT2

MODEL		300PT2				500PT2				600PT2				1000PT2			
Input voltage	V, Ph	220, 3		380, 3		220, 3		380, 3		220, 3		380, 3		220, 3		380, 3	
Process		TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK
Input capacity	KVA	21	14	20	13	21	14	20	13	26	17	25	16	59	43	58	44
Open circuit voltage	V	74		78		74		78		75		78		83		87	
Output current	A	2~300	2~200	2~300	2~200	2~500	2~340	2~500	2~340	2~600	2~400	2~600	2~400	15~1000	20~700	15~1000	20~700
Output voltage	V	30	33	30	33	30	33	30	33	34	36	34	36	50	55	50	55
Crater current	A	2~300				2~500				2~600				15~1000			
Pulse current	A	2~300				2~500				2~600				25~1000			
Pulse frequency	Hz	Low : 0.5~30 High : 30~500															
Pulse width	%	0~100															
Start current	A	2~300				2~500				2~600				15~1000			
Post flow time	sec	0.5~15															
Slope-up time	sec	0.1~5															
Slope-down time	sec	0.1~5															
Duty cycle	%	60															
Dimension (W×D×H)	mm	260×500×360				370×700×570				440×1100×800							
Weight	kg	23				57				130							

Professional AC/DC PULSE TIG Welder

- Suitable for welding mild steel, stainless steel and aluminium
- AC, DC, AC+DC Function
- Full digital control and user friendly interface
- Multi functional Digital remote controller
- Digital memory function(10 slots)
- Ideal for thin plate welding with excellent control of low output current



Model No. 200PA



Model No. 350PA

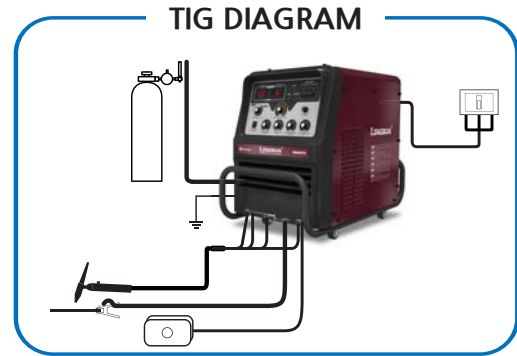
Model No. 500PA

TIG WELDERS (GTAW)

MODEL		200PA		350PA				500PA			
Input voltage	V, Ph	220, 3		220, 3		380, 3		220, 3		380, 3	
Process		TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK
Input capacity	KVA	7	5	13	9	12	8	21	15	20	14
Open circuit voltage	V	81		74		74		74		78	
Output current	A	2~200	2~130	2~350	2~230	2~350	2~230	2~500	2~330	2~500	2~330
Output voltage	V	17	22	24	29	24	29	30	33	30	33
Crater current	A	2~200		2~350				2~500			
Pulse current	A	2~200		2~350				2~500			
Pulse frequency	Hz	Low : 0.5~30 High : 30~500									
Pulse width	%	5~95									
Start current	A	2~200		2~350				2~500			
Post flow time	sec	0.5~15									
Slope-up time	sec	0.1~5									
Slope-down time	sec	0.1~5									
Duty cycle	%	60									
Dimension (W×D×H)	mm	260×500×360		370×700×570				370×700×570			
Weight	kg	25		59.5				63			

Inverter DC TIG Welder

- Portable size, Suitable for welding up to 5mm mild steel and stainless steel
- Non contact arc start by high frequency wave
- Crater ON/OFF, MMA function
- Down slope still on during Crater OFF
- Easy to verify welding current by digital ammeter during welding
- Built in Arc spot, pulse function(350LT)



CE Certificate

Model No. 200LT

Model No. 300LT

Model No. 350LT

MODEL		200LT		300LT		350LT			
Input voltage	V, Ph	220, 1		220, 1		220, 1/3		220/380, 1/3	
Process		TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK
Input capacity	KVA	7.7	7.1	9.1	7.8	10.1	8.1	10.1	8.0
Open circuit voltage	V	76		82		70		70@380 Input	
Output current	A	10~200	20~150	10~250	20~180	10~300	20~200	10~300	20~200
Output voltage	V	19	24	20	27	22	28	22	28
Crater current	A	10~50 Automatic change with welding current							
Pulse current	A	-				10~120 Automatic change with welding current			
Pulse frequency	Hz	-				0.5~500			
Post flow time	sec	0.5~6							
Slope-down time	sec	0.5~6							
Duty cycle	%	40				60			
Dimension (W×D×H)	mm	170×440×290		220×470×290		270×480×380			
Weight	kg	13		18		21		22	

Inverter DC TIG Welder

- Adjust welding current by remote controller (LTP Series)
- Built in function of Pulse TIG and suitable for welding pipe and cast (LTP Series)
- Maximum torch cable extension : 100m
- Suitable for using at plant and shipbuilding yard

TIG WELDERS (GTAW)



CE Certificate

Model No. 400LT3

Model No. 500LT2

Model No. 600LT3

Model No. 500LTP

Model No. 600LTP

MODEL		400LT3		500LT2		600LT3		500LTP		600LTP	
Input voltage	V, Ph	220/380/440, 1/3									
Process		TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK	TIG	STICK
Input capacity	KVA	13	11	21	15	28	18,4	21	15	28	18,4
Open circuit voltage	V	70@380 Input		63@380 Input		62@380 Input		62@380 Input		62@380 Input	
Output current	A	10~400	20~280	15~500	20~340	15~600	20~400	15~500	20~340	15~600	20~400
Output voltage	V	26	30	30	33,6	34	36	30	33,6	34	36
Crater current	A	10~400		15~500		15~600		15~500		15~600	
Pulse current	A	-									
Pulse frequency	Hz	-									
Pulse Width	%	-									
Start Current	A	10~400		15~500		15~600		15~500		15~600	
Post flow time	sec	0,5~25									
Slope-up time	sec	-									
Slope-down time	sec	-									
Duty cycle	%	60									
Dimension (WxDxH)	mm	330×680×530		385×770×610		385×825×610		360×710×575		400×790×630	
Weight	kg	40		58		65		54		65	

Inverter AC/DC TIG Welder

- 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
- Selectable AC/DC TIG, changable input voltage
- Non contact arc start
- Built in pulse function
- Easy to verify welding current by digital ammeter during welding
- Remote controller(Optional)



Model No. 350LA



Model No. 500LA

Model No. 600LA

MODEL		350LA		500LA		600LA	
Input voltage	V, Ph	220/380/440, 1/3					
Process		TIG	STICK	TIG	STICK	TIG	STICK
Input capacity	KVA	13.5	7.3	21.7	15.9	25.9	17.8
Open circuit voltage	V	60@380 Input		62@380 Input		60@380 Input	
Output current	A	10~350	20~200	15~500	20~340	15~600	20~400
Output voltage	V	24	28	30	33.6	34	36
Crater current	A	10~350		15~500		15~600	
Pulse current	A	10~350		15~500		15~600	
Pulse frequency	Hz	10~500					
Pulse Width	%	15~85					
Start Current	A	10~350		15~500		15~600	
Post flow time	sec	0.5~15					
Slope-up time	sec	0.1~5					
Slope-down time	sec	0.1~5					
Duty cycle	%	60					
Dimension (W×D×H)	mm	385×765×610		385×765×610		385×825×610	
Weight	kg	59		69		74	

Inverter Micro TIG Welder

- Delicate and uniformed control of low output current 1 Ampere
- Ideal for 0.2mm thin plate welding
- Ideal for micro and precise welding with Pre-set function

MODEL		150LMT
Input voltage	V, Ph	220, 1
Input capacity	KVA	2.2
Open circuit voltage	V	75
Output current	A	1~100
Output voltage	V	8
Duty cycle	%	100
Dimension (W×D×H)	mm	260×500×360
Weight	kg	21



Model No. 150LMT

TIG WELDERS (GTAW)

Weld Cleaner

- Cleaning surface after stainless steel welding with TIG or MIG welder
- Cleaning aluminum oxide
- Select 4 ways output wave (AC High, AC Low, DC+, DC-)
- Safety function when short circuit or overload



Accessory



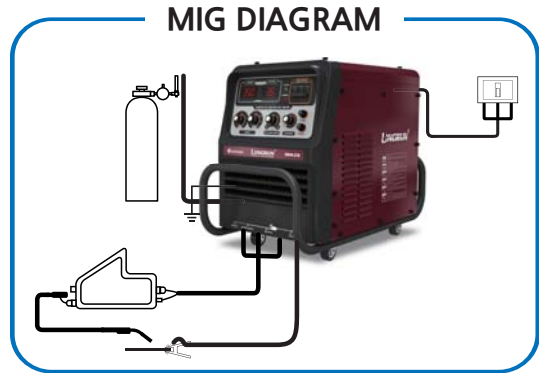
MODEL		50MC
Input voltage	V, Ph	220, 1
Output max	W	1200
Dimension (W×D×H)	mm	180×330×290
Weight	kg	12



Model No. 50MC

Inverter MIG-MAG Welder

- Changable Input voltage
- Easy to verify output voltage and current by Digital ammeter
- Saving power consumption by high-tech IGBT
- Air arc gouging (650LCG)
- MMA Function (500LC2, 600LC2)



CE Certificate

Model No. 350LC2

Model No. 500LC2

Model No. 600LC2

Model No. 350SLC

Model No. 650LCG

MODEL		350SLC	350LC2	500LC2	600LC2	650LCG
Input voltage	V, Ph	220/380, 1/3	220/380/440, 1/3			
Input capacity	KVA	13.9	15	20	32.4	31.6
Open circuit voltage	V	76@380 Input	62@380 Input	62@380 Input	76@380 Input	70@380 Input
Output current	A	50~300	50~350	50~500	50~600	50~650
Output voltage	V	12~32	16~35	16~40	16~44	16~44
Wire thickness	∅	0.8~1.2	0.9~1.2	0.9~1.4	0.9~1.6	0.9~1.6
Wire type		Solid			Solid or flux	
Feature		Portable type, suitable for thin plate welding	Suitable for welding sheet metal	Suitable for welding steel product	Suitable for welding at plant with high duty cycle	Suitable for using Gouging function
Duty cycle	%	40	60			
Dimension (W×D×H)	mm	270×480×380	330×680×530	385×765×610	385×825×610	390×925×730
Weight	kg	27	39	61	66	101

Inverter MIG Welder

- Able to weld stainless steel and aluminium
- Adjustable feeding speed on No-load
- Saving power consumption by high-tech IGBT
- Changable input voltage
- Easy to verify output voltage and current by digital ammeter

MIG WELDERS (GMAW)



Model No. 350LM2

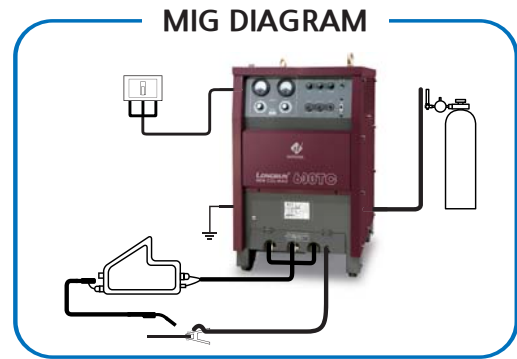
Model No. 500LM2

Model No. 600LM2

MODEL		350LM2	500LM2	600LM2
Input voltage	V, Ph	220/380/440, 1/3		
Input capacity	KVA	15	20	32.4
Open circuit voltage	V	62@380 Input	62@380 Input	76@380 Input
Output current	A	50~350	50~500	50~600
Output voltage	V	16~35	16~40	16~44
Wire type		Solid	Solid or flux cored	
Duty cycle	%	60		
Dimension (W×D×H)	mm	365×705×575	385×770×610	385×825×610
Weight	kg	51	60	72

Thyristor MIG-MAG Welder

- Built in patent transformer with high duty cycle
- Excellent welding performance by new control circuit
- Easy to verify output voltage and current by ammeter
- Incurruptible painting and metal
- Crater control function(Current and voltage)
- Air arc gouging function (650TC, 800TC, 1000TC)



Model No. 500TC

Model No. 600TC

Model No. 650TC

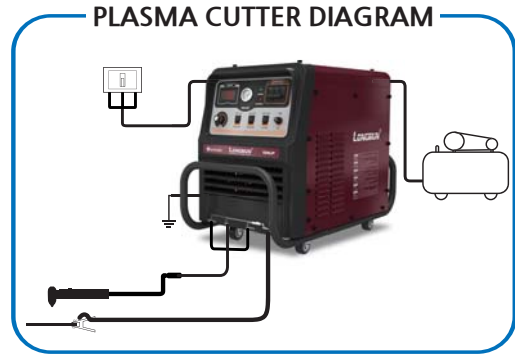
Model No. 800TC

Model No. 1000TC

MODEL		500TC	600TC	650TC	800TC	1000TC
Input voltage	V, Ph	220/380/440, 3				
Input capacity	KVA	32	43	43	57	80
Open circuit voltage	V	68@380 Input		75@380 Input	80@380 Input	
Output current	A	60~500	60~600	60~650	60~800	60~1000
Output voltage	V	12~42	12~48		18~52	
Wire size	∅	0.9~1.4			1.6~2.0	
Wire type		Solid or flux				
Duty cycle	%	70		80	70	
Dimension (W×D×H)	mm	500×700×870	500×700×870	500×740×900	500×740×900	610×840×1030
Weight	kg	170	190	195	230	280

Inverter Air Plasma Cutter

- Cutting by air only
- Portable size and light weight
- Non contact start by Pilot circuit
- Changable input voltage(100, 200Series)
- Built-in automatic torch switch on lasting duty
- Easy to verify cutting current and air pressure by ammeter and air pressure indicator on duty
- Excellent cutting quality by patent cutting torch
- Air compressor Built-in(All-in-one) (70CLP)



MULTI PROCESS

Built-in Compressor



Built-in Compressor

Model No. 70CLP



Model No. 100LP

Model No. 130LP

Model No. 70LP

Model No. 150LP



Model No. 200LP

MODEL		70CLP	70LP		100LP	130LP	150LP	200LP
Input voltage	V, Ph	220, 1	220, 1	220/380, 1/3		220/380/440, 1/3		380, 1/3
Input capacity	KVA	8	7.5		12	23	27	36
Open circuit voltage	V	325	315			280@380 Input		318@380 Input
Output current	A	30~60	30~70	30~70	25~100	35~130	50~150	45~200
Output voltage	V	128	100		110	120	130	160
Maximum thickness	mm	8	10		20	30	40	60
Duty cycle	%	40			60			
Dimension (W×D×H)	mm	270×450×380	270×450×380		330×680×530	385×780×610	385×825×610	390×920×740
Weight	kg	29	23		44	62	69	118

Multi Process Welder

- Potable size and light weight
- Suitable for using at any place by plug type of 220V, single phase

DC STICK WELDER

- **HOT START FUNCTION** : Instantly increase output current for perfect arc start
- **VRD** : Maintain No load voltage under 10V DC on duty-off for user's safety
- Auto shut down by low voltage detection circuit
- Suitable for welding 4 Electrode with 200A of output current

PLASMA CUTTER

- Non contact arc start by pilot circuit for less consumption of nozzle and electrode
- Air compressor Built in
- High cutting quality by exclusive parts and design
- Suitable for cutting 10mm of steel plate with output current 40A

DC TIG WELDER

- Portable size, Suitable for welding up to 5mm mild steel and stainless steel
- Non contact arc start by high frequency wave
- Crater ON/OFF, MMA function
- Down slope still on during Crater OFF
- Easy to verify welding current by digital ammeter during welding
- Weldable under 5mm with high current 200A



Model No. 40CLT



Model No. 40CLD

MODEL		40CLT			40CLD	
Input voltage	V, Ph	220, 1				
Function		TIG	STICK	PLASMA CUTTING	STICK	PLASMA CUTTING
Input capacity	KVA	7.7	7.1	4	7.1	4
Open circuit voltage	V	82	82	260	82	260
Output current	A	10~200	10~200	15~40	10~200	15~40
Output voltage	V	19	24	120	24	120
Maximum capacity	mm	5	4	10	—	10
Duty cycle	%	40				
Dimension (W×D×H)	mm	240×430×310				
Weight	kg	22			21	

Inverter Plasma Welder

- 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
- Automatic shut down by sensor of gas pressure, cooling water and thermal overload

MODEL		200PW	300PW
Input voltage	V, Ph	220, 3	
Input capacity	KVA	15	20
Output current	A	3~200	5~300
Rated maximum current	A,%	200, 100	300, 100
Welding current	A	3~200	5~300
Welding voltage	V	20~40	25~45
Pilot current	A	10~50	15~70
Up slope current	A	3~200	5~300
Down slope current	A	200~3	300~5
Up/Down slope time	sec	0.1~99	0.1~99
Pulse current	A	3~200	5~300
Pulse frequency	Hz	1~500	1~500
Pulse width	%	1~99	1~99
Pilot gas	L/min	0.3~3	0.5~5
Shielding gas	L/min	2~20	2.5~25
Dimension (WxDxH)	mm	400x650x670	
Weight	kg	45	50



Model No. 300PW

PLASMA CUTTER/WELDER

Plasma Console

- 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
- Ideal for thin plate welding

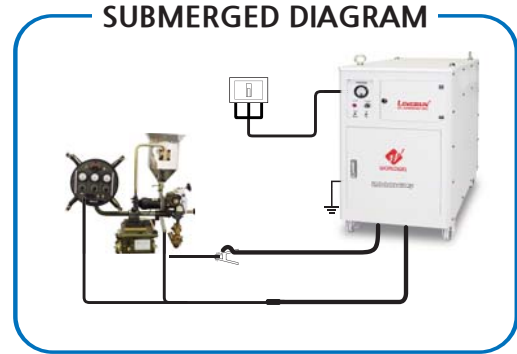
MODEL		1000LPC
Input voltage	V, Ph	220, 1
Input power	KW	4
Open circuit voltage	V	70~80
Output current	A	3~30
Duty cycle	%	100
Dimension (WxDxH)	mm	350x710x470
Weight	kg	55



Model No. 1000LPC

Submerged Arc Welder

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



Model No. 1500TAS

Model No. 2000TAS



Model No. 1500WAS

Model No. 2000WAS



Model No. 1000WDS

Model No. 1500WDS

Model No. 2000WDS

MODEL		AC (SCR TYPE)		AC		DC		
		1500TAS	2000TAS	1500WAS	2000WAS	1000WDS	1500WDS	2000WDS
Input voltage	V, Ph	220/380/440, 1				220/380/440, 3		
Input capacity	KVA	135	180	135	180	80	120	160
Open circuit voltage	V	95				82		
Output current	A	150~1500	150~2000	150~1500	150~2000	100~1000	150~1500	200~2000
Frequency	Hz	50/60						
Duty cycle	%	80						
Dimension (W×D×H)	mm	570×1100×1430		800×1050×1400		750×1100×1150	800×1050×1400	
Weight	kg	670	690	700	720	415	700	720

Inverter Submerged Arc Welder

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



Model No. 1200PDS

Model No. 1500PDS

MODEL		1200PDS	1500PDS
Input voltage	V, Ph	220/380/440, 3	
Input capacity	KVA	67	
Open circuit voltage	V	82	95
Output current	A	DC 100~1200	DC 100~1500
Duty cycle	%	80	
Dimension (W×D×H)	mm	515×915×1185	

Submerged Arc Welding Tractor

- 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 delivery by powerful motor
- Auto flux recovery system (Option)
- Extra wire reel 70kg (Option)



Model No. 45CA



Model No. 25CT



Model No. LS7



Model No. LD7

MODEL		45CA	25CT	LS7	LD7
Application wire diameter	∅	2.4~4.8	4.0~6.4	2.4~4.8	4.0~6.4
Welding speed	cm/min	0~100	0~150	0~100	0~150
Nozzle adjustment range	V/H	50/50	75/100	150/100	150/100
Hopper capacity	L	6	12	6	12
Wire feeding motor	W	DC 60	DC 100	DC 125 (Print)	DC 125 (Print)
Speed control		SCR Control			
Welding power		AC or DC			
Applicable welding		BUTT JOINT	TANDEM	Inner/outer circular tank, pipe	
Dimension(W×D×H)	mm	960×450×690	1530×730×1500	920×570×860	1100×900×860
Weight	kg	50	170	35	135

SUBMERGED ARC WELDER

Seam Tracker



Control Unit



Probe Unit



Screw Slide Unit



LM Slide Unit

MODEL		WST 200	WST 300
Rated Loading capacity	kg	200	200
Input voltage	V, Ph	AC 110, 1	
X/Y Tracking range	mm	200/200	400/300
Tracking speed	mm/min	150	
Tracking accuracy	mm	0.05~0.5	
Allowable moment	kg-cm	2,000	
X/Y Driving motor	W	40	90
Driving method		Motor Drive – Reducer – Ball Screw – Seam Tracking	
Control type		Up, Down, Left, Right, Pull up Right, Both, Left, Full up, Remote control	
Welding type		Submerged(TANDEM/SINGLE)	
Weight	kg	25	60

Welding Rod/Flux Dry Oven & Flux Recovery



Welding Rod Dry Oven



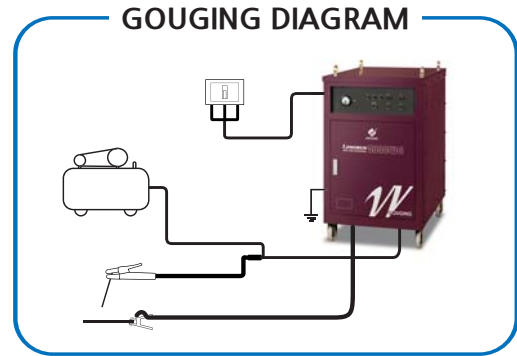
Flux Dry Oven



Flux Recovery

Arc Air Gouging Machine

- Suitable for welding CO2 arc 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



Model No. 1000WG

Model No. 1500WG

Model No. 1200WG

Model No. 2000WG

MODEL		1000WG	1200WG	1500WG	2000WG
Input voltage	V, Ph	220/380/440, 3			
Input capacity	KVA	80	95	120	160
Open circuit voltage	V	90		92	
Output current	A	200~1000	200~1200	300~1500	300~2000
Output voltage	V	50		52	
Gouging rod	∅	4~10	4~12	4~16	
Duty cycle	%	80			
Dimension (W×D×H)	mm	565×885×1050	565×885×1050	710×1010×1290	800×1050×1400
Weight	kg	335	375	550	580

Thyristor DC STICK Welder

- Built in patent transformer with high duty cycle
- Excellent welding performance by new control circuit
- Long-lasting power and stability with enough capacity



MODEL		400TD	500TD	600TD
Input voltage	V, Ph	380, 3		
Input capacity	KVA	32	42.5	55
Open circuit voltage	V	80	85	85
Output current	A	400	500	600
Duty cycle	%	70		
Dimension (W×D×H)	mm	500×700×870		500×740×900
Weight	kg	170	190	200



Model No. 400TD

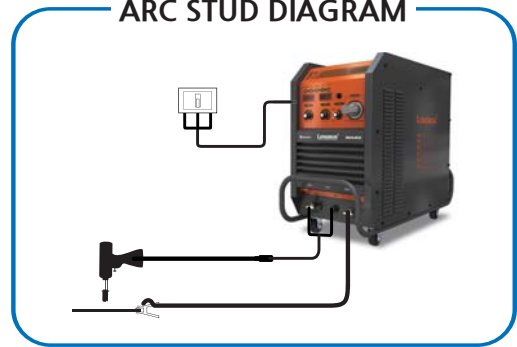
Model No. 500TD

Model No. 600TD

Inverter Arc Stud Welder

- Portable and light weight by IGBT Inverter type
- Full digital function
- Suitable for welding pin or bolt
- Able to weld between different metals such as steel, aluminum, stainless steel, copper, etc
- Small trace on metal plate by instant welding
- Easy to verify voltage before welding by preset function

ARC STUD DIAGRAM



Inverter Arc Stud Welder



Model No. 500JK2



Model No. 1000JK2

Model No. 1500JK2



Model No. 2500JK2

MODEL		500JK2	1000JK2	1500JK2	2500JK2
Input voltage	V, Ph	220/380/440, 3			
Input capacity	KVA	16	35	73	180
Stud range	∅	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		
Dimension(W×D×H)	mm	250×450×360	385×890×610		380×920×740
Weight	kg	23	67	76	150

SCR Arc Stud Welder

- Able to weld the bolt, pin on metal instantly without drilling, punching and tapping
- Suitable for using at shipbuilding yard, plant and construction works by $\Phi 3$ - $\Phi 25$ stud welding
- 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



Model No. 500JK



Model No. 850JK



Model No. 1500JK



Model No. 2500JK

ARC STUD GUN

500JK
Short Cycle



Weldable Stud : $\Phi 3$ - $\Phi 8$
Length: 290mm
Weight : 3.4kg(Cable:3m)

850/1500JK
Short Cycle



Weldable Stud : $\Phi 3$ - $\Phi 16$
Length: 290mm
Weight : 3.3kg(Cable:3m)

850/1500JK
Drawn Arc



Weldable Stud : $\Phi 3$ - $\Phi 16$
Length: 260mm
Weight : 3.1kg(Cable:3m)

2500JK
Drawn Arc



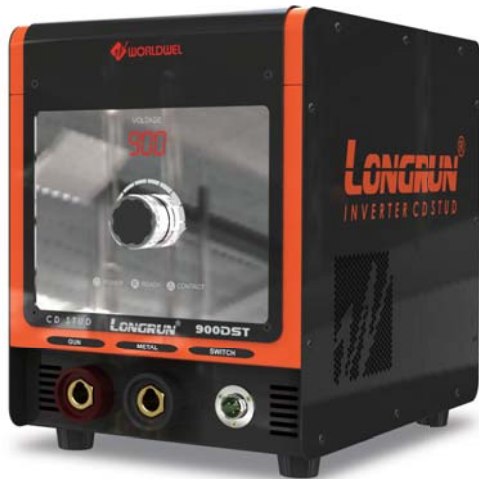
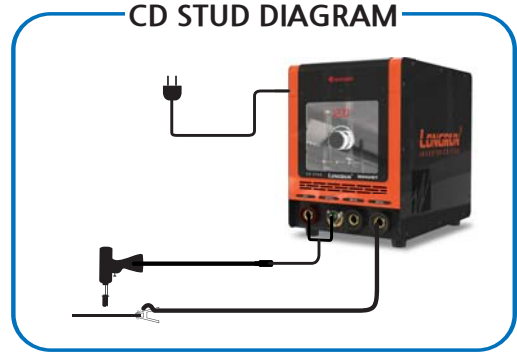
Weldable Stud : $\Phi 3$ - $\Phi 25$
Length: 460mm
Weight : 5kg(Cable:4m)

MODEL		500JK	850JK	1500JK	2500JK
Input voltage	V, Ph	220/380/440, 3			
Input capacity	KVA	20	35	70	180
Stud range	Φ	3~8	3~12	3~16	6~25
Current range	A	50~500	100~850	100~1500	100~2500
Weld time range	sec	0.1~1.0			0.1~1.4
Dimension(WxDxH)	mm	220×290×370	300×350×550	500×600×730	710×1000×1030
Weight	kg	29	90	200	530

Inverter CD Stud Welder

- Portable and light weight by IGBT Inverter type
- Full digital function
- Suitable for welding pin or bolt
- Able to weld between different metals such as steel, aluminum, stainless steel, copper, etc
- Small trace on metal plate by instant welding
- Easy to verify voltage before welding by preset function

CD STUD DIAGRAM



Model No. 900DST



Model No. 1200DST

Model No. 1500DST

CD STUD GUN

900DST / 1200DST / 1500DST



Weldable Stud : $\Phi 3 \sim \Phi 12$
 Length: 230mm
 Weight : 1.2kg(Cable : 3m)

MODEL		900DST	1200DST	1500DST
Input voltage	V, Ph		220, 1	
Condenser capacity	μF	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(W×D×H)	mm	225×400×200	250×410×360	250×490×360
Weight	kg	13	24	30

Inverter Spot Welder

- Digital setting and memorizing welding condition
- Prevention circuit of missing times of SPOT set in initial
- 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
- Digital control of SPOT pressure
- Program Updating service
- Save Energy 70% more than pre-AC Spot welder



SPOT WELDER

MODEL		20000ISP	30000ISP	50000ISP
Input power	V, Ph	380/440, 3		
Inverter output voltage	V	AC 500/600		
Output frequency	kHz	1~5		
Maximum output current	kA	3~20	6~35	9~60
Maximum output voltage	V	15		
Duty cycle	%	10		
Dimension(W×D×H)	mm	800×1100×2050		
Weight	kg	425	450	475

Model No. 20000ISP

Model No. 30000ISP

Model No. 50000ISP

Air Spot / Projection Welder

- Full 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)
- Water cooling system(Transformer, SCR electrode of upper and lower side)



Model No. 52ST

MODEL		50LSP	75LSP	100LSP	150LSP
Input voltage	V, Ph	220/380/440, 1			
Rated capacity	KVA	50	75	100	150
Max. Short circuit current	A	18,000	22,000	28,000	40,000
Cooling water volume	L/min	6	8	8	10
Working height	mm	900			
Pocket(Depth×Gap)	mm	500×200			
Tip holder	Diameter	Φ 25	32		
	Length	200/150	200/185		
Diameter of Tip	Φ	16	20		
Feature		Suitable 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

Model No. 50LSP

Model No. 75LSP

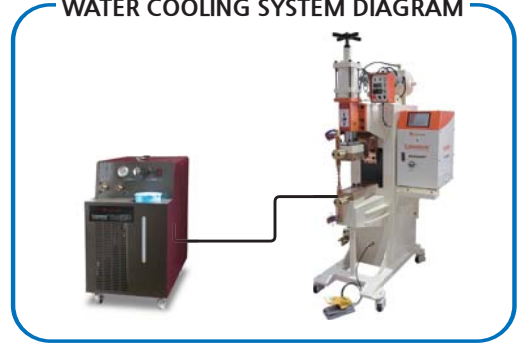
Model No. 100LSP

Model No. 150LSP

Water Cooler

- Cooling system for TIG, MIG torch
- Cooling system for SPOT welder
- 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 (350WC)
- Suitable for high duty cycle yard (500WC, 700WC)

WATER COOLING SYSTEM DIAGRAM



Model No. 350WC



Model No. 500WC

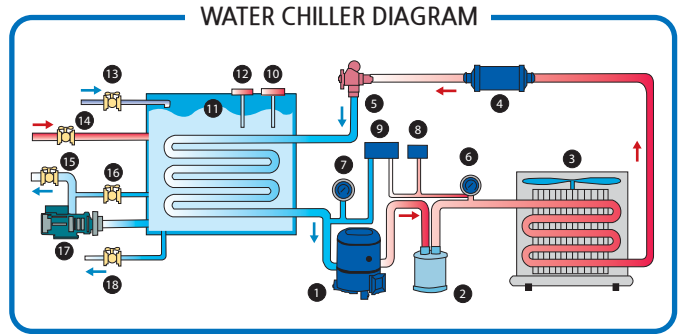


Model No. 700WC

MODEL		350WC	500WC	700WC
Input voltage	V, Ph		220, 1	
Output volume	L/min	6.5	6.5	6.5
Output pressure	kg/cm ²	1~3	1~3	1~3
Cooling capacity	kcal/hr	350	500	700
Tank capacity	ℓ	12	25	25
Cooling method		Radiator		
Pump capacity	W	125	125	125
Dimension(W×D×H)	mm	330×530×320	330×660×460	350×600×640
Weight	kg	18	21	27

Water Chiller

- Easy to move by wheel
- High-powered, silent compressor equipped
- Delicate thermal control
- Compact design



Model No. 1500WC

Model No. 2000WC



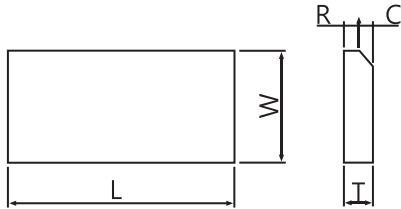
Model No. 3000WC

Model No. 5000WC

MODEL		1500WC	2000WC	3000WC	5000WC
Input voltage	V, Ph	220, 1		220/380/440, 3	
Cooling capacity	kcal/hr	4000~4500	5600~6000	8400~9000	14000~15000
Temperature control range	°C	10~30			
Cooling water pressure range	kg/cm ²	1~3		1~4	
Cooling water tank capacity	ℓ	30	40	75	
Refrigerant		R-22/R407C			
Compressor capacity	kw	1.12(1.5hp)	1.5(2hp)	2.25(3hp)	3.75(5hp)
Circulation pump capacity	W	350		700	
Dimension (W×D×H)	mm	520×810×860	520×810×960	640×1000×1200	640×1000×1400

Plate beveling machine

- Portable handy type beveling machine
- Self driving system to bevel a big plate
- Tungsten Carbide cutting insert-changable



Category	SMB-17C
L	200mm—Unlimited
W	150mm—Unlimited
T	4~40mm
C	Max.17mm
R	4~40mm
Beveling Angle	30,35,45,60 degrees

MODEL	SMB-17C
Cutting Speed	60(50)Hz—330(280) mm/min
Cutting Rotation	60(50)Hz—300(250) RPM
Dimension(W×D×H)	1240×790×830mm
Option	Beveling upper and lower part
Weight	260kg



Turn Table / Positioner

- 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



MODEL		50TT	100TT	150TT	300TT	500TT	
Voltage	V, Ph					220, 1	
Load capacity	Horizontal	kg	50	100	150	200	500
	Vertical	kg	20	40	60	120	200
Tilting angle	°					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			Handle	0.37
Diameter(mm)	mm	310		300	500	600	
Dimension (W×D×H)	mm	280×400×470	280×400×490	320×500×465	500×830×600	645×1085×715	
Weight	kg	29.5	30	50	280	450	

Manipulator

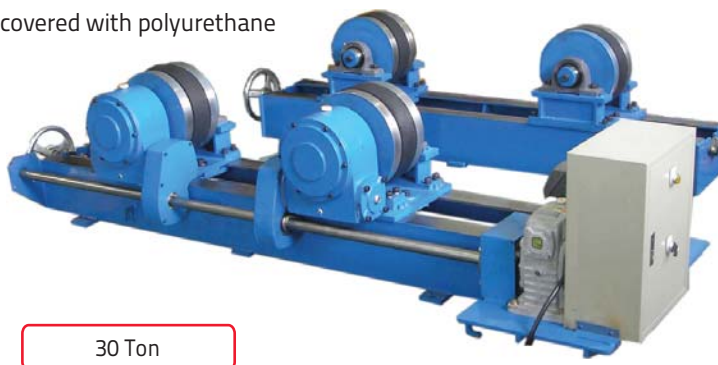
- For welding internal and external of cylinder, pipe and flange
- Stable to move vertically, horizontally without twisting and bending



MODEL		15MP	20MP	30MP
Power voltage	V, Ph	220, 1	380, 3	
Travel distance	mm	1500	2000	3000
Travel speed	mm/min	150~1500		
Vertical distance	mm	1500	2000	3000
Vertical speed	mm/min	500	600	800
Weight with head unit	kg	50	75	100

Turning Roll

- For using with Submerged Arc, CO₂, TIG Automation system
- Speedy and precise center adjusting by metal roller covered with polyurethane



30 Ton

MODEL		TR-MINI	TR-1	TR-2	TR-5	TR-10	TR-20	TR-30	TR-50
Voltage	V, Ph	220, 1			380, 3				
Load capacity	Ton	0.5	1	2	5	5	10	30	50
Roll speed	mm/min	100~1000							
Workpiece diameter	mm	30~500	150~1500	150~1800	300~2500	400~2800	400~3000	400~3500	500~4000
Roller size	mm	76X100	170X120	170X120	240X140	280X140	320X170	350X220	400X240
Bed length	mm	460	1000	1200	1500	1800	2000	2500	3000
Dimension(W×D×H)	mm	800×700×500	900×1000×500	1150×1750×450	1150×2200×470	1000×2600×500	1100×2800×550	1150×3400×800	1300×3800×850

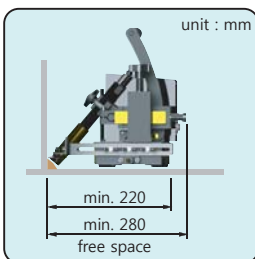
Fillet welding carriage

- Single torch fillet welder for horizontal travelling
- Stitch mode/ Continuous mode
- Both straight and curved type torches can be applicable
- XY Slider helps setting torch widely
- Max. Climb up to 30° incline, Max. pulling-power 20kg
- Crater fill time for weld start and stop can be controlled 0~3 seconds

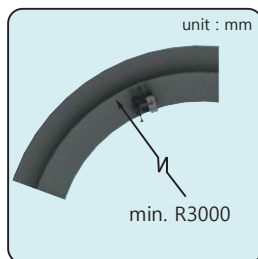


Model No. KW-FFSA

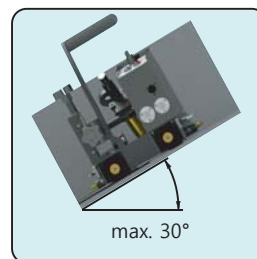
Mounting (KW-FFSA)



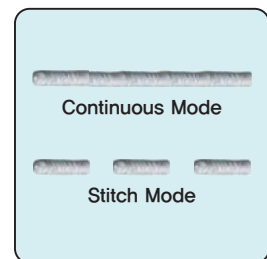
Curved Round (KW-FFSA)



Incline Angle



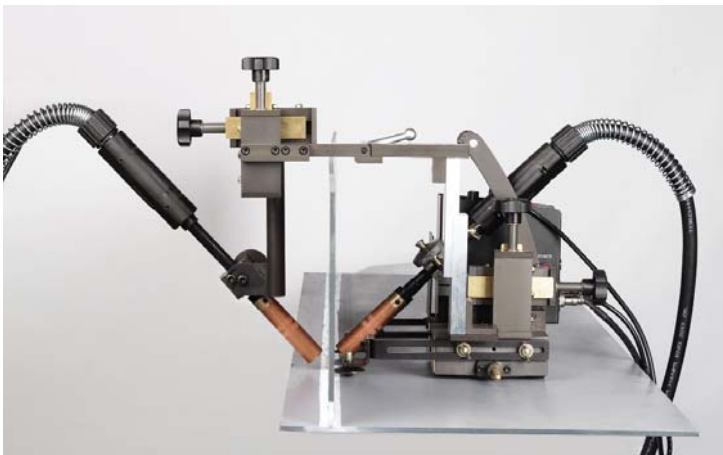
Continuous/ Stitch Mode



MODEL		KW-FFSA
General	Dimension(W×D×H)	262×270×298 mm
	Weight	6.3kg
	Input voltage	AC100~240V, 50~60Hz, 1Phase
Travelling unit	Speed	0~860mm/min
	Mechanism	4 Wheels Chain-Drive
	Motor	DC24V, 12W, 5000RPM
	Reducer	1:400
XY Slider unit	X slider stroke	0~50mm
	Y slider stroke	0~50mm

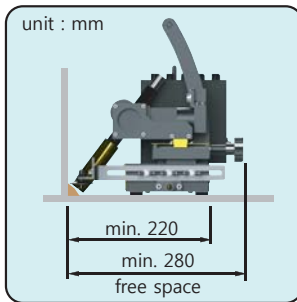
Dual Torches Fillet Carriage

- Dual torches fillet carriage for both sides welding for horizontal travelling
- Reduce the work time, save the cost
- Stitch mode / Continuous mode
- Both straight and curved type torches can be applicable
- XY Slider helps setting torch widely
- Max. climb up to 30° incline, Max. pulling-power 20kg
- Crater fill time for weld start and stop can be controlled 0-3 seconds

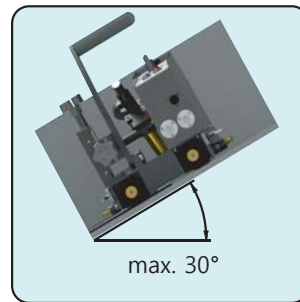


Model No. KW-FFDA

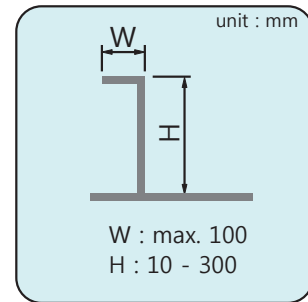
Mounting (KW-FFDA)



Incline Angle



RIB (KW-FFDA)



MODEL		KW-FFDA
General	Dimension(W×D×H)	290×440×330 mm
	Weight	8.9kg
	Input voltage	AC100~240V, 50~60Hz, 1Phase
Travelling unit	Speed	0~860mm/min
	Mechanism	4 Wheels Chain-Drive
	Motor	DC24V, 12W, 5000RPM
	Reducer	1:400
XY Slider unit	X slider stroke	0~50mm
	Y slider stroke	0~50mm
Extended torch	Torch adjustable angle	45°±10°
	X slider stroke	0~50mm
	Y slider stroke	0~50mm
	Y clamp slider stroke	0~80mm

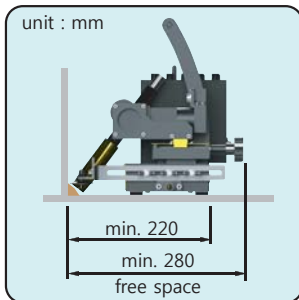
Vertical weaving Fillet Carriage

- Vertical-up fillet welder controlled by a local panel and a remote controller
- Secure mounting on the work-piece with the powerful magnet
- Digital control system for setting the welding parameters including tractor speed, weaving speed and weaving width
- Left / Right dwell function (Weaving)
- Center-shift function (Operable when only stopped)
- Wireless remote control, available to control as a long distance up to 50 meter

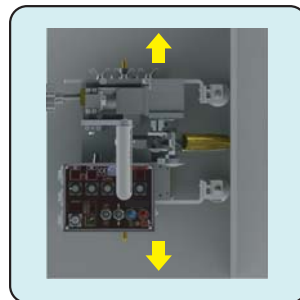


Model No. KW-FVUA

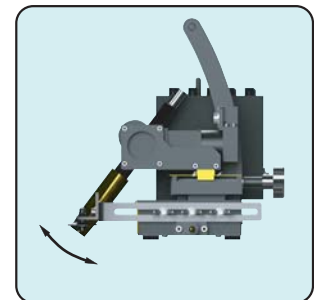
Mounting



Vertical Up Welding



Weaving



MODEL		KW-FVUA
General	Dimension(W×D×H)	290×270×298 mm
	Weight	7.7kg
	Input voltage	AC100~240V, 50~60Hz, 1Phase
Travelling unit	Speed	0~860mm/min
	Mechanism	4 Wheels Chain-Drive
	Motor	DC24V, 12W, 5000RPM
	Reducer	1:400
X slider unit	X slider stroke	0~50mm
Weaving unit	Motor	DC24V, 12W, 5000RPM
	Reducer	1:1000
	Speed	0~5RPM
	Width	±16°
	Left / Right stop	0~9.9sec. dwell
	Mode	

Rail travelling Multi Carriage

- Multi welder such as Butt-fillet and down-Horizontal-Vertical up positions with weaving functions
- Digital control system for setting the welding parameters including tractor speed, weaving speed and weaving width
- Stable travel on the rail, it comes high quality welding
- Wireless remote control, available to control as a long distance up to 50meter
- Applicable rails, each 1.5 meter standard length



Model No. KW-MWRA

- Multi welder, such as Butt-fillet with Stitch-Continuous function and Down-Horizontal position without weaving function
- Stable travel on the rail, it comes high quality welding
- Both straight and curved type torches can be applicable
- Applicable rails, each 1.5 meter standard length



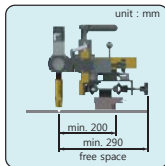
Model No. KW-MRNV

Rail (Purchase separately)

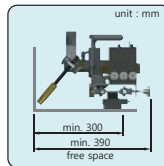
- Rigid Aluminum rail with 3-magnets on-off type
- Rigid Aluminum rail with 3-vacuum cups and a pump
- Flexible stainless steel rail with 4-magnets on-off type

OTHER PRODUCTS

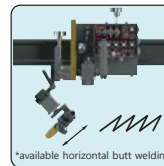
Butt welding



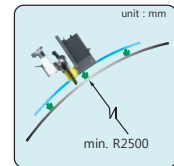
Fillet welding



Multi-Layer Weaving (KW-MWRA)



Flexible rail



MODEL		KW-MWRA	KW-MRNV
General	Dimension(W×D×H)	330×284×240 mm	330×284×240 mm
	Weight	7.0kg	6.0kg
	Input Voltage	AC100~240V, 50~60Hz, 1Phase	AC100~240V, 50~60Hz, 1Phase
Travelling unit	Speed	0~750mm/min	0~750mm/min
	Mechanism	Rack-Pinion, Geared Motor	Rack-Pinion, Geared Motor
	Motor	DC24V, 12W, 5000RPM	DC24V, 12W, 5000RPM
	Reducer	1:400	1:400
	Gear clutch	Manual Moving Clutch	Manual Moving Clutch
XY slider unit	X slider stroke	0~50mm	0~50mm
	Y slider stroke	0~50mm	0~50mm
	Rapid slider stroke	0~150mm	0~150mm
Weaving unit	Motor	DC24V, 12W, 5000RPM	-
	Reducer	1:1000	-
	Speed	0~5RPM	-
	Width	Max. 15°	-
	Left / Right Stop	0~9.9sec	-
	Mode		-
Rail	Rail type	RIGID MAGNET & VACUUM, FLEXIBLE	RIGID MAGNET & VACUUM, FLEXIBLE
	Length	1.5m	1.5m
	Weight	8.0kg/8.5kg/8.5kg	8.0kg/8.5kg/8.5kg

Controller

- Micro processed Orbital controller
- Torch screen type of operation
- Storage of up to 99 programs
- Storage of up to 200 parameters
- Control of devices equipped with orbital remotely
- Control of welding process automatically
- Monitoring, storage and programming



Controller



Model No. 300PT2



Model No. 350WC

Orbital Welding Head

- After finishing the welding, returning to original position automatically
- Keeping the constant distance between torch head and base metal very precisely
- Being applied with welding wire or without welding wire



MODEL		KH-S1	KH-S2	KH-S3	KH-S4
Capacity	mm	17~43	19~61	25~90	48~114
Dimension(W×D×H)	mm	175×380×120	190×400×120	220×420×120	245×440×120
Weight	kg	4.5	4.9	5.5	6

Turn Table System

- Perforated type of turn table for easily setting the welding position
- Height and angle adjustment for setting the working position
- Being applied with welding wire or without welding wire



Flange welding

Pipe welding

Pipe welding
(Pipe movable type)

MODEL		Turn Table System
Chuck Outer Dia	φ	25~300
Chuck Inner Dia	φ	25~120
Height Range	mm	500~1000
Turning Speed	rpm	0.5~4
Turning Angle	°	0~90
Load Capacity	kg	Vertical 100 / Horizontal 60
Weight	kg	120

Inverter Spot Two-Head

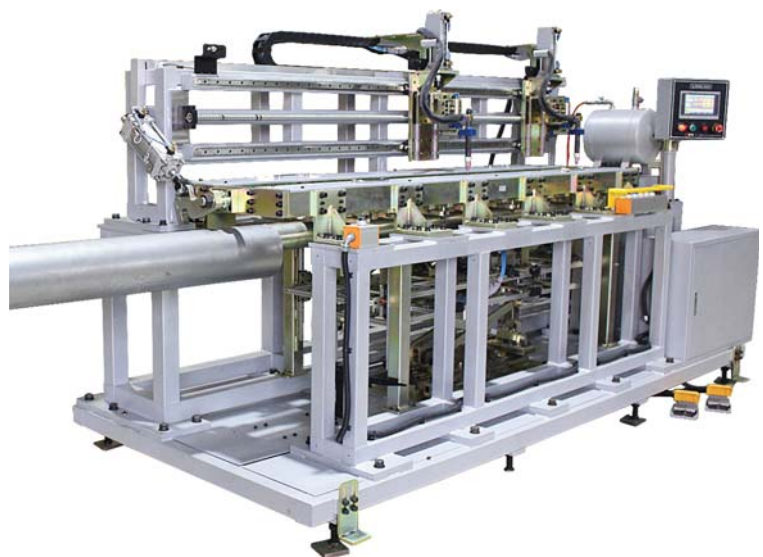
- Power source : 30,000ISP
- System : Inverter Spot control 2-Head Welding
- Max. Output Current : 35KA



▲ Inverter Spot Two-Head

TIG AUTO - Welding Machine

- Power source : Inverter DC TIG welding machine 500LT3 2EA
- System : 2-Torch TIG Welding with PLC control
- Max. Work Length : 2.4m



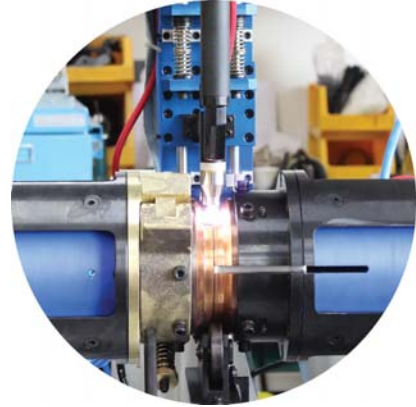
▲ TIG AUTO – Welding Machine

Cylinder Auto-welding machine

- Power source : Plasma welding machine 300PW
- System : Plasma welding with PLC control
- Work range : 100~300mm



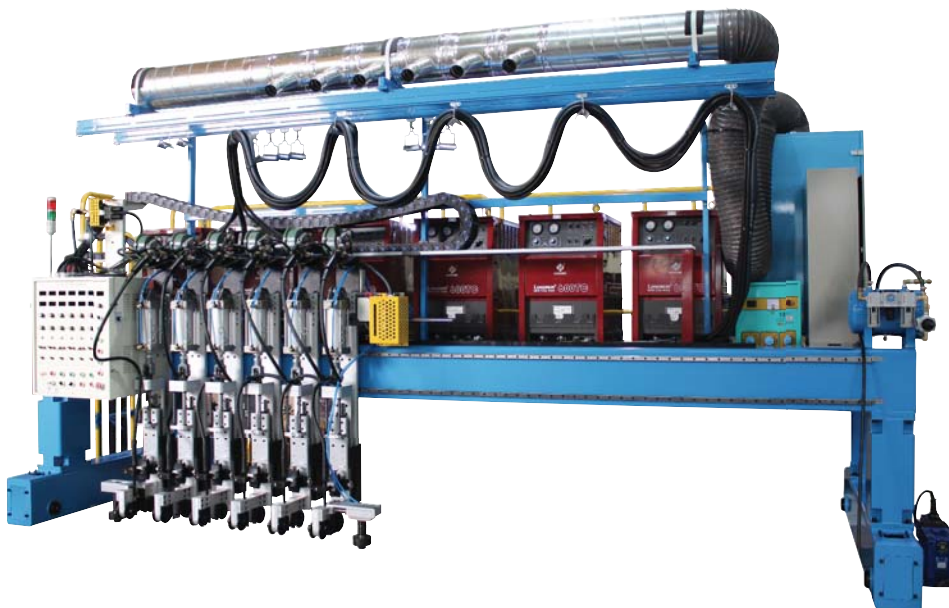
▲ Cylinder Auto-welding machine



AUTOMATIC WELDING SYSTEM

6Pole Auto-welding machine

- Power source : Thyristor welding machine 600TC 6SETS
- System:6 Pole H-Beam CO2 Welding with PLC control



▲ 6Pole Auto-welding machine

Auto straight TIG welding system for kitchen sink

- Power source: Inverter DC TIG welder 500LT3
- SYSTEM : 1 Torch TIG welding with PLC control
- Adjustable welding speed
- Torch mount : Torch UP-DOWN cylinder, fine motion control, adjustable torch angle
- Servo-motor control
- Pneumatic cylinders control



Model No. 500LT3

H-Beam Auto-Welding Machine

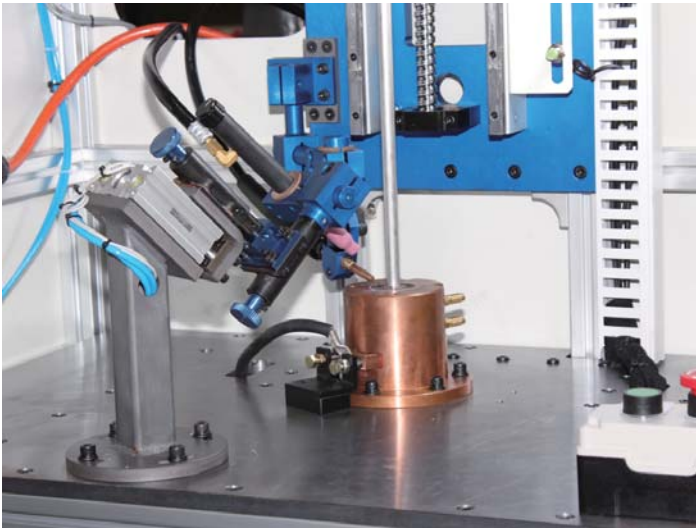
- Power source: DC Submerged 2000WDS & AC Submerged 2000WAS
- System: Auto Carriage 25CT & Seam tracker & Flux recovery
- Easy to set welding position for assembled H-Beam
- High productivity with fast welding & turning speed



▲ H-Beam Auto-Welding Machine

TIG AUTOFILLER WELDIGN SYSTEM

- Adjustable Height
- Adjustable welding speed
- Adjustable Wire feeding speed
- Adjustable torch angle
- Torch mount : Torch UP-DOWN cylinder, fine motion control, adjustable torch angle
- Welding UP-DOWN clamp
- Servo-motor control
- Pneumatic cylinders control



Model No. 500PT2

* Apply Weld Cleaner



Model No. 50MC

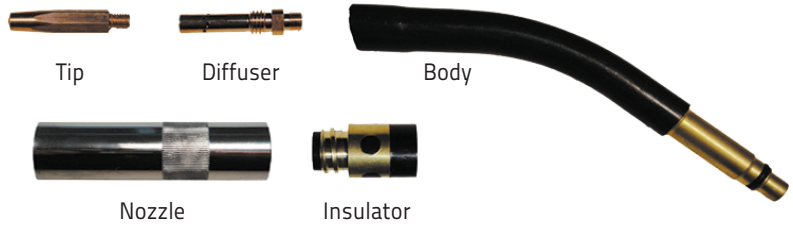


ACCESSORIES

Co₂ / MIG / MAG



Co₂ / MIG / MAG



Tip

Diffuser

Body

Nozzle

Insulator



Adapter & Handle



2 Roll bracket



4 Roll bracket



Reel-shaft



Feeder-Roller



Spring-Liner



Wire Feeder



Single-Cable



co₂ Regulator

TIG



Air Coting Torch



Head Assy



Water Cooler Torch



Head Assy



Tungsten-Grinder



TungstenRods



Argon Regulator



1 Remote Control



2 Remote Control



PA,PT2 Remote Control

PLASMA CUTTING



WTP 40A



WTP 40A Torch Ass'y



P80 Torch



P-80 Torch Ass'y



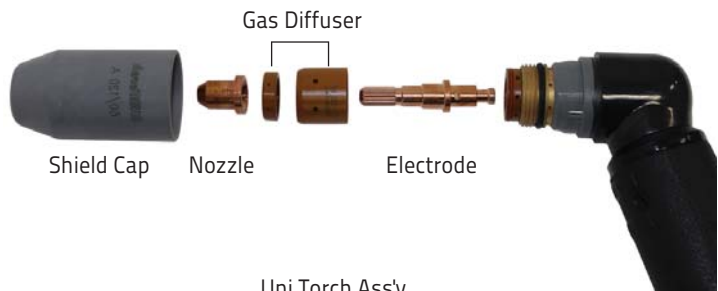
WTP 100A



WTP 100A Torch Ass'y



Uni Torch



Uni Torch Ass'y

SMAW & GOUGING



Arc Holder



Holder & Cable Connector



Arc Earth



Earth Clamp



Gouging-Torch



Gouging Head & Earth Clamp



ELECTRIC WIRE REEL & MULTI CABLE



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The specification can be changed without notice to be upgraded

Production date: 2016.04.