

# Introduction for Welding Automation

(Welding Equipment, Auto Carriage, Automation Welding System)



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# PRODUCT

## Welding Equipment

### MIG/MAG Welding

#### ● EXCELLENT ARC CHARACTERISTICS

- Stable welding current & voltage by electric circuit
- Beginner can easily do high quality welding with simple operation
- Soft start

#### ● PRACTICAL DESIGN

- Easy maintenance
- Life time extended
- Safty & durability
- Self-diagnosis by switch
- Convenient moving by 4-rubber wheel (★option)

#### ● SUPPLY SHIPYARDS FOR MORE THAN 20YEARS

#### ● EFFICIENT WELDING PROCESS WITH VARIETY OF WELDING METHOD

- MIG/MAG/MMA/GOUGING



Model	ISC-600A
Amperes Input At Rated Load Output 50/60Hz, Three-Phase	43KVA 36KW
Rated Input Power	3Φ 380~480(Customized) ± 10%
Frequency	50/60Hz
Rated Welding Current	600A
Output Current Range	100A-600A
Output Voltage Range	10V-50V
Max. Open-Circuit Voltage DC	75V
Duty Cycle	80%
Temperture	160 °C
Weight	230Kg



# PRODUCT

## Welding Equipment

### Submerged Arc Welding



- **EXCELLENT ARC CHARACTERISTICS**
- **SIMPLY SELECT VARIETY WELDING CHARACTERISRICS**
  - Drooping characteristic
  - Constant current characteristic
  - Constant Voltage characteristic
- **EXCELLENT & HIGH SPEED WELDING PERFORMANCE**
- **STEADY RUNNING CAPABILITY**
- **Tandem type combination of AC-AC or DC constant voltage power supply with DC-AC**
- **SUPPLY SHIPYARDS FOR MORE THAN 20YEARS**

MODEL	KS-1500WDS		
Rate output Current(A)	1500		
Duty cycle(%)	100		
Input volt(V)	AC 415 3-PHASE		
Frequency (Hz)	50/60		
Rate input (KVA)	120		
Output current range(A)	CV MODE	CC1 MODE	CC2 MODE
	250 ~ 1500	50 ~ 1500	180 ~ 1500
Output volt range(V)	CV MODE	CC1 MODE	CC2 MODE
	9 - 50	2 - 50	6 - 50
Rate output volt(V)	50		
Max. unload volt(V)	85		
Insulation class	H CLASS		
Control method	THYRISTOR IC CONTROL		
Cooling type	Fan Air cooling		
Demension(mm)	810×1160×1390		
Weight(kg)	730kg		



# PRODUCT

## Welding Equipment

### Invert Welding

- Working efficiency improvement by soft and clean arc start
- Sole technology of confidential and controlling circuit in arc start, which prevent welding rod from sticking to wire-tip end
- Regulating crater voltage and current
- Low spatter and removal time of spatter considerably improved
- Continuous high speeding welding works available according to quick response of changing arc load by high speed inverter
- Welding cable extending upto 50m
- Regulating welding depth, bead height and width
- Preventive circuit inside from overheat
- Rated input voltage :  $\pm 10\%$
- Rated input voltage over  $\pm 10\%$ , auto-stop function



Model		250PC	350PC	500PC	600PC
Rated input voltage	V	1~3 $\phi$ 220,380~480(Customized)			
Rated frequency	Hz	50/60			
Rated output current	A	250	50~350	50~500	50~600
Rated load voltage	V	26	15~34	16~38	16~44
Rated input	KVA	8.2	15	24	33.2
Rated unload voltage	V	60	60	70	70
Rated duty cycle	%	60	60	60	60
Dimensions(W×D×H)	mm	265×480×440	390×520×620	410×600×740	490×680×920
Weight	kg	22.5	57.6	76.7	100



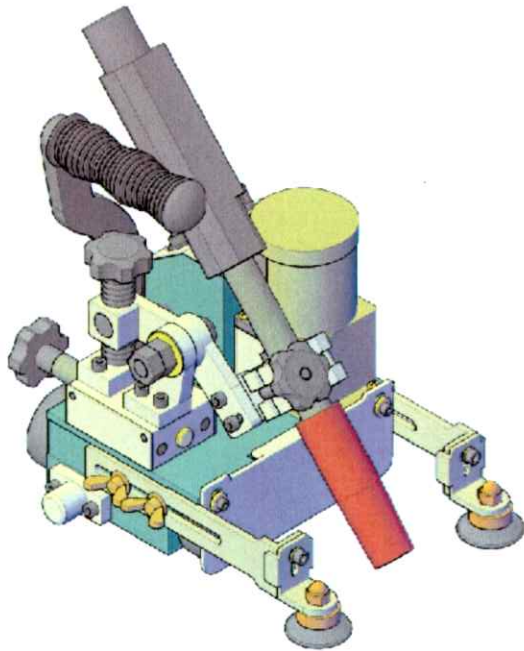
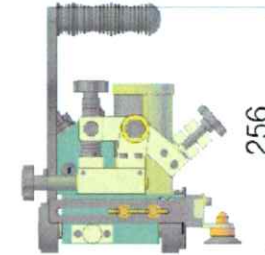
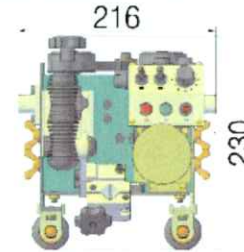
# PRODUCT

Portable automation

Fillet carriage

## AUTO CARRIAGE GC-5K,5DC

- ❖ lightweight automatic fillet welding carriage.
- ❖ Patents: No. 10-0827194



MODEL		GC-5K	GC-5DC
BODY	W*L*H	216*230*256	
	Weight	5.1Kg	
	Driving Method	Four by Four/Magnet desiccant	
	Magnet	Permanent Magnet	
	Driving speed	0 ~ 1,000mm/min	
	Range of torch	Top and Bottom : 30mm Front and Rear : 30mm Angle : 25° ~ 65°	
	Power Source	AC220V 50/60Hz	DC24V 50/60Hz
TORCH	Usage rate	500A / 70%	
	Wire	Ø1.2 , Ø1.4 , Ø1.6 (선택)	
	Length	5M	
TOOL	L-wrench (3/4mm)		



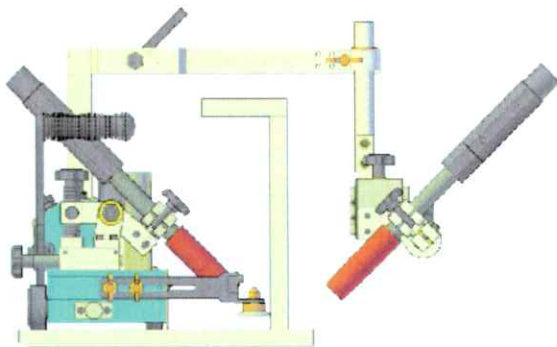
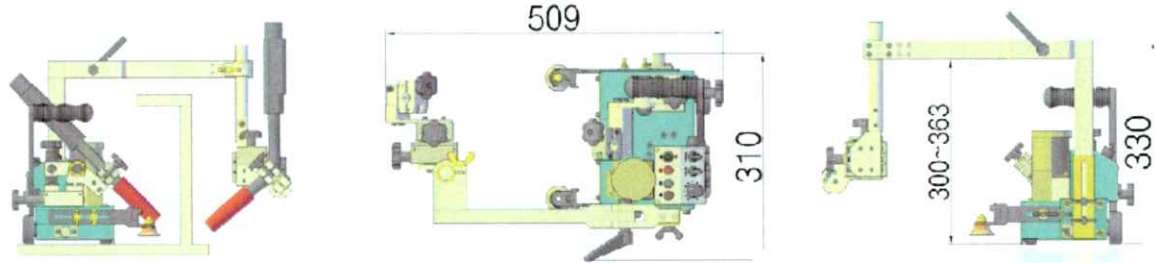
# PRODUCT

Portable automation

Fillet carriage

## AUTO CARRIAGE GC-4F Dual Side

- ❖ Dual sides are welded with two torches by one travelling
- ❖ saving working time and cost.



MODEL		GC-4F
BODY	Dimension(W*L*H)	310*509*330
	Weight	11.5Kg
	Driving Method	Four by Four/Magnet desiccant
	Magnet	Permanent Magnet
	Driving speed	0 ~ 1,000mm/min
	Range of torch	Top and Bottom: 30mm Front and Rear : 30mm
	Power Source	220V 50/60Hz
Torch	Usage rate	500A / 70%
	Wire	Ø1.2 , Ø1.4 , Ø1.6 (선택)
	Length	5M
TOOL	L-wrench (3/4mm)- each 1Pcs Fuse (AC250V 2A)	



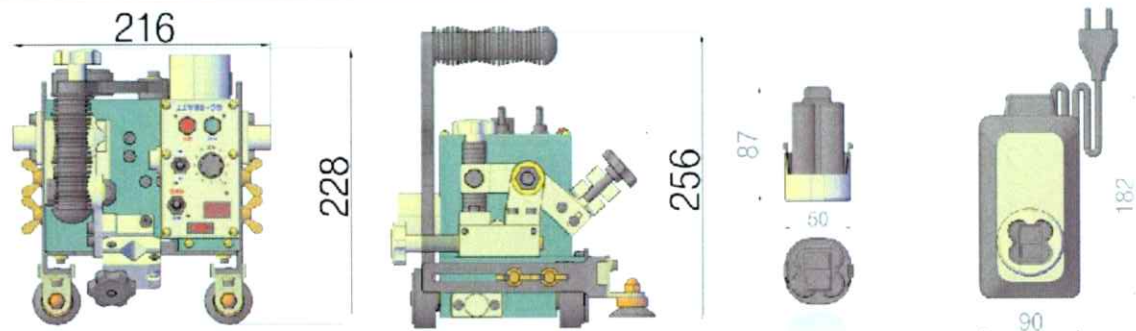
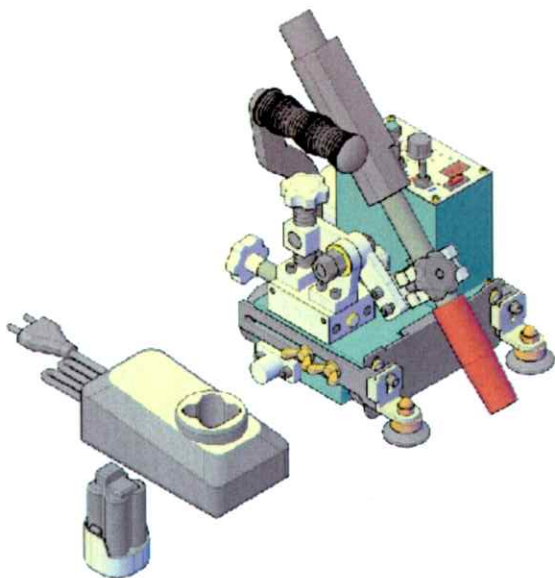
# PRODUCT

Portable automation

Vertical carriage

## AUTO CARRIAGE GC-5BATT Battery carriage

- ❖ The carriage specialized battery product.
- ❖ No need additional power cables.
- ❖ Compatible with all welding sets in use.



MODEL		GC-4F
CARRIAGE	Dimension	274 * 282 * 265
	Weight	7.9Kg
	Drive Motor	BLDC (30W)
	Travel Speed	0~1000 mm/min
	Y-Stroke	± 25mm
	Power Source	220V 50/60Hz
WEAVING MODULE (Weaver)	Weave Motor	BLDC
	Weave Angle (max)	5° (left/right 2.5° )
	Weave Speed	20 times/min (Weave Angle (max))
	Dwell Time	0~2 Sec
Torch	Usage rate	500A / 70%
	Wire	Ø1.2 , Ø1.4 , Ø1.6 (선택)
	Length	5M
TOOL	L-wrench (3/4mm)- each 1Pcs	
	Fuse (AC250V 2A)	



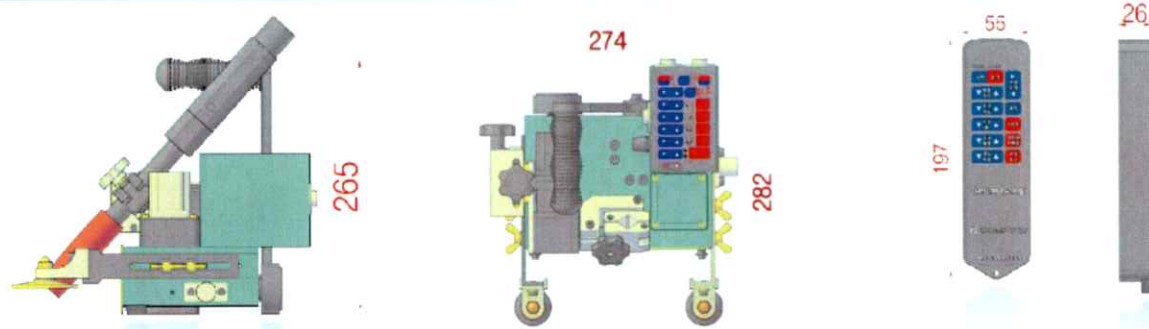
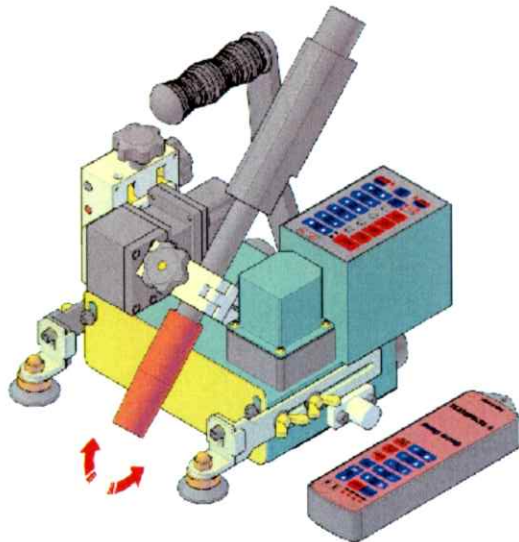
# PRODUCT

Portable automation

Vertical carriage

## AUTO CARRIAGE GC-9B Vertical weave

- ❖ Automatic vertical fillet welding carriage machine.
- ❖ Wireless Remote Control.



MODEL		GC-4F
CARRIAGE	Dimension	274 * 282 * 265
	Weight	7.9Kg
	Drive Motor	BLDC (30W)
	Travel Speed	0~1000 mm/min
	Y-Stroke	± 25mm
	Power Source	220V 50/60Hz
WEAVING MODULE (Weaver)	Weave Motor	BLDC
	Weave Angle (max)	5° (left/right 2.5° )
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	Length	5M
TOOL	L-wrench (3/4mm)- each 1Pcs	
	Fuse (AC250V 2A)	