

WELDING EQUIPMENT CATALOG

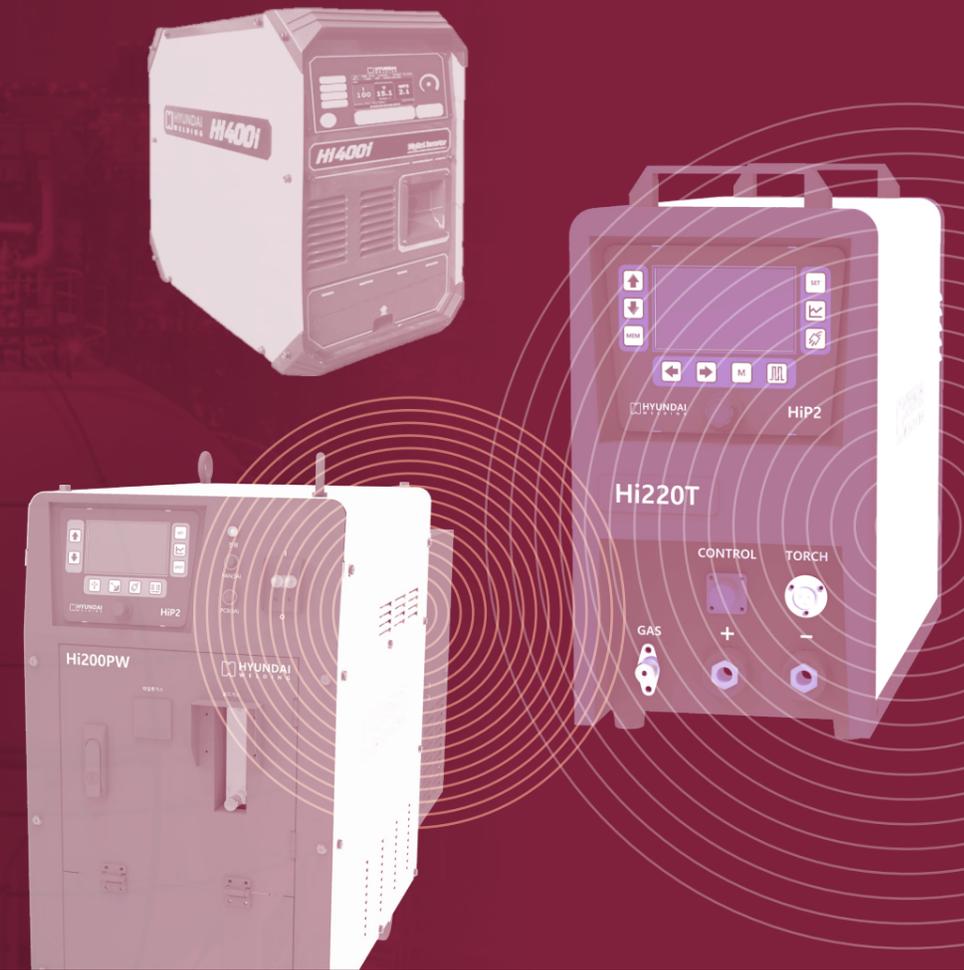


The Welding Specialists

Hyundai Welding is a world-class manufacturer that specializes in providing optimum welding solutions to its customers, by supplying top-notch welding consumables and equipment. Hyundai Welding has contributed to the development and success of the global welding industry for more than 40 years since its foundation in 1975. As the leading welding manufacturer in Korea, we currently export our consumables and equipment to over 80 countries via our global network and manufacturing plants overseas. In 2009, Hyundai Welding became the first domestic welding manufacturer to export over \$200 million.

Hyundai Welding's DNA

The DNA of Hyundai Welding is to listen to on-site customer demands, ensure high product quality, and provide customized solutions. We communicate constantly with our customers and respond immediately to their needs. These are the factors that drive our success, and it allows us to be one of the fastest growing welding solutions companies in the world.



<p>2020</p> <p>Production of Wel mos, monitoring system</p>	<p>2019</p> <p>Production of Hi Series, premium range</p>	<p>2017</p> <p>Production of H Series, digital inverter welders</p>	<p>2014</p> <p>Production of NEO series, pulse MIG digital inverter welders</p>	<p>2013</p> <p>Production of multifunctional digital inverter welder</p>	<p>2012</p> <p>Environmental test of ship rectifier, HiPOWER 50D & 75D Production of digital inverter plasma welder, NEO PW 300</p>	<p>2011</p> <p>Environmental test of ship rectifier, HiPOWER 100D Production of automated digital inverter TIG welder, NEO TIG 350P</p>
<p>2010</p> <p>Production of digital MAG welder LiBERO, and environmental test of ship rectifier (HiPOWER 35D)</p>	<p>2009</p> <p>Production of SCR MIG welder (aluminum only)</p>	<p>2008</p> <p>Production of digital CO2/MAG 600 (FINE ARC II)</p>	<p>2007</p> <p>Production of digital CO2/MAG welder HD Auto series</p>	<p>2001</p> <p>Production of DC SAW 1500(ZEUS 1500D) & AC SAW 1500(HERA 1500A) Merged Seongwu Precision Industrial Co, Ltd. into Hyundai Welding Establishment of welding equipment R&D center (Korea Industrial Technology Association)</p>	<p>2000</p> <p>Production of CO2/MAG welder FINE ARC 350</p>	<p>1999</p> <p>Technical cooperation with SANREX, Japan</p>
<p>1998</p> <p>Production of SCR welders, the DYNAMIC AUTO series</p>	<p>1997</p> <p>Completion of Seongwu Precision Industrial Co, Ltd.'s Icheon plant</p>	<p>1995</p> <p>Establishment of Seongwu Precision Industrial Co, Ltd.</p>	<p>1987</p> <p>Changed company name to Hyundai Welding</p>	<p>1977</p> <p>Completion of welding consumables plant in Pohang</p>	<p>1975</p> <p>Establishment of Seohan Development Co, Ltd.</p>	

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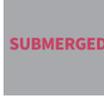
OUTPUT ICONS

 Constant Current characteristics	 AC characteristics	 Constant Current, Constant Voltage characteristics	 AC, DC characteristics
 DC Characteristics	 2Roll WIRE FEEDER	 4Roll WIRE FEEDER	

INPUT ICONS

 Single-phase Input power	 Three-phase Input power	 50,60Hz Interchangeable Product
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WELDING PROCESSES

 SMAW	 MIG/MAG	 PLASMA	 LIFT TIG
 HF TIG	 INVERTER	 PULSE	 SYNERGY
 GOUGING	 ROBOT	 MCU	 OVERHEATING
 FAN	 15KG	 5KG	 3WHEELS
 4WHEELS	 RAIL	 VOLTAGE REDUCTION DEVICE	 SUBMERGED
 LED	 REMOTE	 FLUX RECOVERY	 DRY OVEN
 RACK - PINION			

1 

PREMIUM EQUIPMENT RANGE

Hi-MIG/MAG	10~15
Hi-TIG	16
Hi-PIPE	18
Hi-SAW	20~25
Hi-PLASMA	26
Hi-FEEDER	27

2

INVERTER MIG/MAG

H-Series	29
HG500SP	30~33
H600MS,H600MR	34~35
LiBERO,HD	36~37

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PORTABLE EQUIPMENT

HG-MMA	39
HG-TIG	40
HG-MIG/MAG	41
HG-PLASMA	42

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SAW EQUIPMENT AND CARRIAGES

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01

PREMIUM EQUIPMENT RANGE

Hi450P	10
Hi400i	12
Hi500MT	14
Hi500T	16
Hi500PIPE	18
Hi700SD	20
Hi700SA	20
Hi1000SD	22
Hi1000SA	22
Hi1500SD	24
Hi1500SA	24
Hi200PW	26
Hi100PS	26
MF401-4E	27
RF400i	27

Images may differ from the actual product. Product and components may change due to product enhancement.

Hi450P (MIG/MAG) MIG/MAG/ROBOT/PULSE

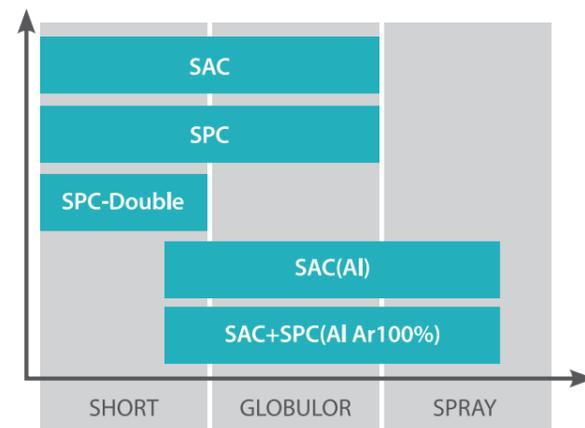
Premium welder for automotive, pipe, and aluminum welding

- Built-in dedicated waveform control: Surface Arc Control (SAC), Surface Pulse Control (SPC)
- Synthetic welding conditions built-in: 50 (mild steel and nonferrous and special systems)
- User Mode Synergy Input Conditions Built-in: 10 (Welder Direct History and USB Input Possible)
- Compatibility: Analog and digital (RS-232C/CAN) interfaces, welder SYNC (tandem and alone)
- Aluminum-only full torch (robot) and extension feeder (MF400-Ex) interworking available



3 PHASE | MIG/MAG | ROBOT | PULSE | SYN | 50/60 Hz

◎ Arc Process



- SAC**
Low heat input, low spatter short circuit transition control technology, DC control technology (CV+CC, mixed control)
· Carbon steel application
· Pipe root pass application
- SPC**
· Low heat pulse control technology
· Stainless steel, Ni-based, non-ferrous metal application
· Application of SAW Low Heat Welding Technology
- SPC-Double**
· SPC-DOUBLE: AI Dedicated Low Heat Double Pulse Control Technology
· Thin aluminum plates (3-5 mm)
- SAC (AI)**
· Short circuit transition control technology for thick aluminum plates, DC control technology (CC)
- SAC+SPC (AI)**
· Short-circuit pulse control technology for thick aluminum plates (Ar100%)

◎ SPC Pulse Welding

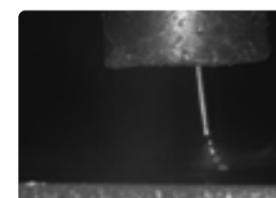
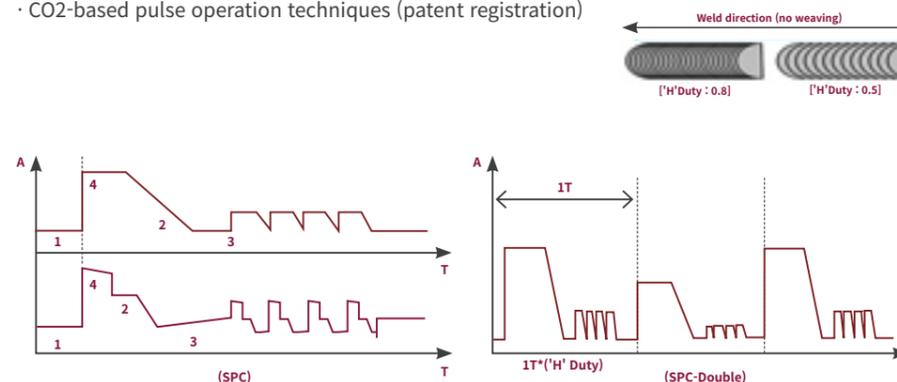


Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi450P	22.5kVA	1P/3P 380V,440V 50/60Hz	10 ~ 500A 10V ~ 38V	Under 80V	3P, 380V: 100% 2P, 380V: 60% (40°C)	50kg	326*655*590mm
Hi500P	25kVA	1P/3P 380V,440V 50/60Hz	10 ~ 500A/ 10V ~ 42V	Under 80V	3P, 380V:100% 2P, 380V: 60% (40°C)	60kg	326*755*640mm

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◎ SPC Pulse Techniques

- High-Speed welding and deep penetration, low-heat input pulse techniques
- 1Pulse – N Drop Implementation: Drop Amount Fine Adjustable Input Control
- CO₂-based pulse operation techniques (patent registration)



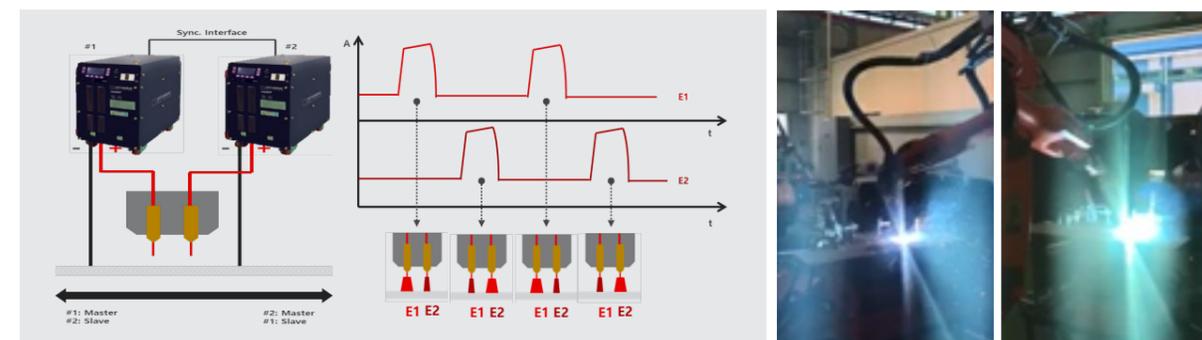
SPC Arc (1Pulse – N Drop)



General Pulse Arc (1Pulse – 1 Drop)

◎ SYNC Function

- Tandem Pulse Sync Welding and Capacity Boost Function
- Pulse – Hot Power Compatibility
- Thick Plate Welding with reduced spatter and improved productivity



Spatter comparison
Left(0 degrees) / Right(180 degrees)

◎ Pulse – Hot Tandem Welding

- Heat input is reduced by more than 40% compared to the regular use conditions. 2 pass welding is possible without having to control temperature like 1 pass welding
- Welding Speed increase of 50 to 100%



Hi500P(Pulse) + Hot tandem
1 pass: 15.6kJ/cm, 2 pass: 26.2kJ/cm

1 Arc(DC)
1 pass: 25.5kJ/cm, 2 pass: 47kJ/cm

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Hi400i MIG/MAG/ROBOT/PULSE

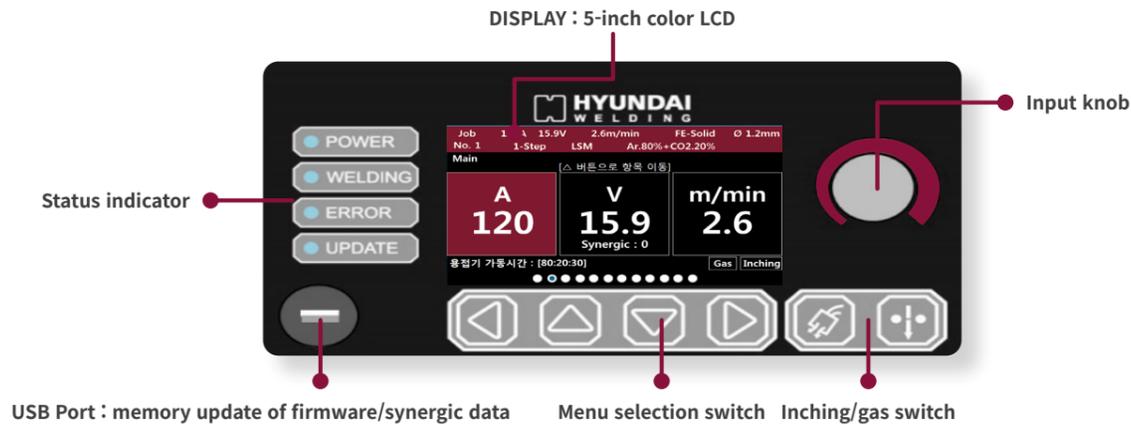
High performance robot welder for optimal welding

- Low spatter welding performance with high-Speed waveform control
- Maximizes high-Speed waveform control Speed and precision with 32-bit control CPU
- High Speed control response with 60 kHz switching frequency
- Low spatter and high quality welding achieved by applying LSM (Low Spatter Mode) and high-precision waveform control achieved by 2nd switching
- Supports CAN, DeviceNet, RS-485, Ethernet and Wi-Fi, Bluetooth interfaces via I/O robot interface
- Supports easy plug-and-play firmware updates with USB memory



Large User Interface

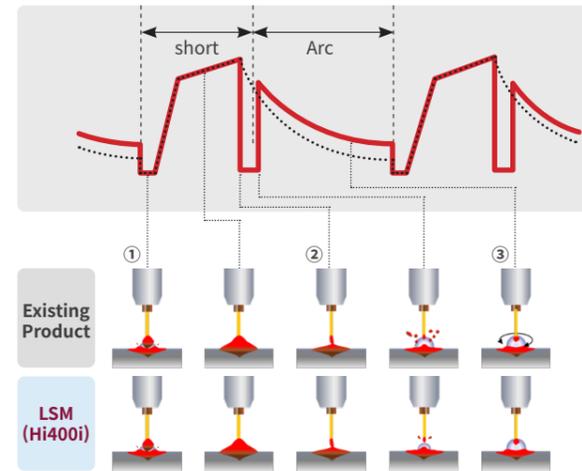
- 5-inch color LCD for clear visibility and easy operation
- Welder control via USB memory and easy update of firmware or welding synaptic data
- Provides access to welding control variables and welding system information



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi400i	18.6kVA	3P, 220V/380V/440V +10%, 50/60Hz	400A, 34V	60V	60%	50kg	316*563*620mm

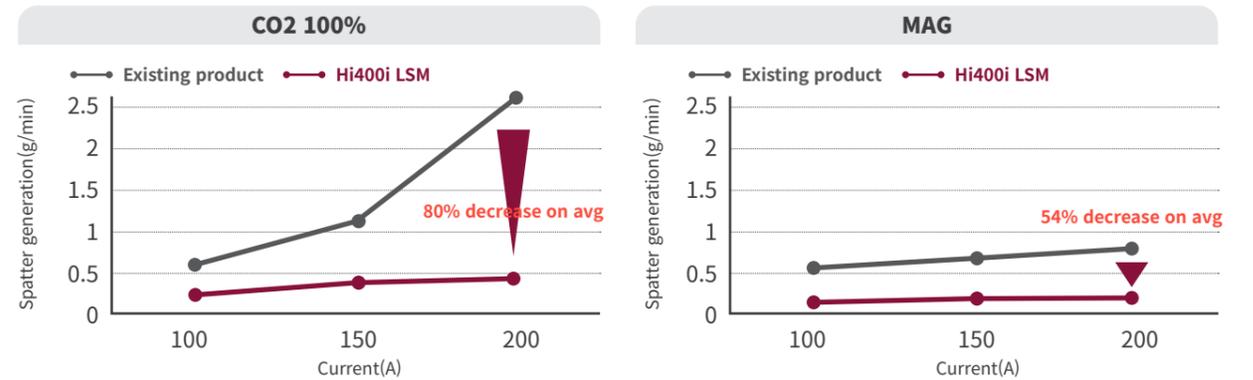
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Precise short-circuit arc waveform control in Low Spatter Mode (LSM)

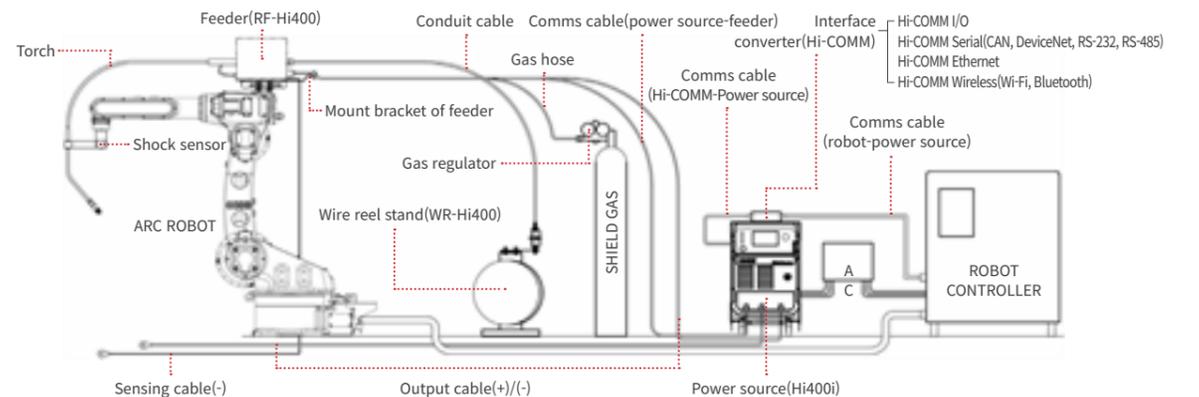


- Initial short circuit control**
Detects short circuits with high accuracy, then reduces current dramatically with secondary switching to prevent spatter caused by an instantaneous short circuit, which leads to a short circuit.
- Neck control**
Detects shrinkage of the bridge between the wire tip and molten pool, and reduces the current rapidly by secondary switching. This minimizes the explosive force in the event of an arc, thereby suppressing spatter generation.
- Arc control**
Arc control prevents irregular vibration of the molten pool and the occurrence of an instantaneous short circuit during the arc.

Spatter Generation



Basic Configuration of Hi400i's Robot Arc Welding System



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Hi500MT MIG/MAG/MMA/TIG

3 in 1 multifunctional welder capable of switching polarity according to feeder

- 60kHz digital MIG/MAG/TIG welder
- Multifunctional welder for space minimization
- Applicable to manual welding in pipelines
- Automatic polarity switching (MIG/MAG ↔ TIG)



3 PHASE | MIG/MAG | SMAW | HF TIG | MCU | 50/60 Hz

Components

Process			Industry
① GMAW	② GTAW	③ SMAW (MMA)	Heavy industry · Construction · Welding training center · Offshore plant
Digital feeder CO2 torch CO2 gas 2nd cable Earth cable	Analog remote box TIG torch Ar gas 2nd cable Earth cable	Analog remote box STICK holder 2nd cable Earth cable	Features
			3 in 1 multifunctional welder · CO2, TIG automatic polarity switching · CAN communication · Built-in pulse function in TIG mode · Switching frequency : 60kHz

- Use TIG, STICK manually for single pass
- After single pass, Use Fill/CAP CO2/MAG manually or by carriage

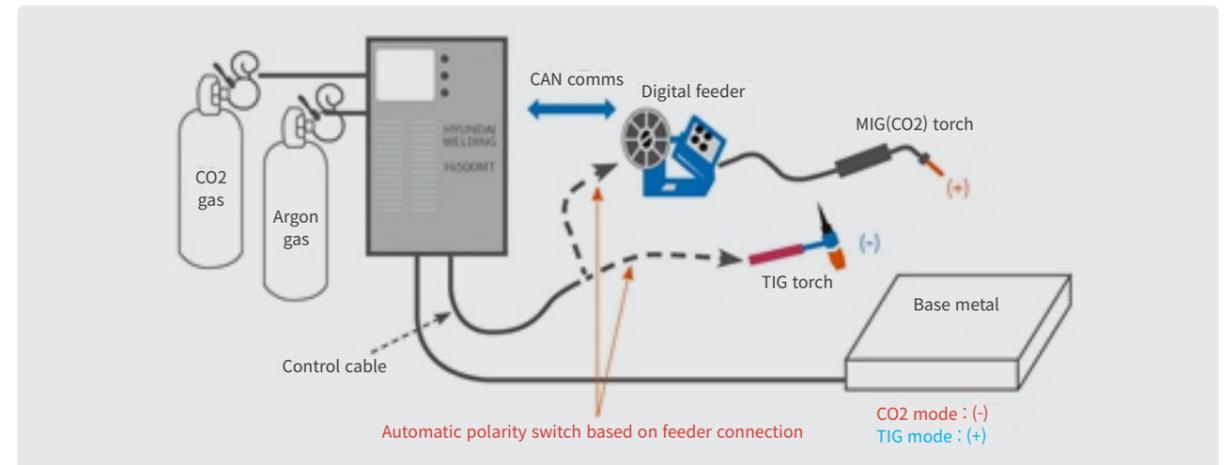


TIG single pass / MAG fill, Cap

Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi500MT	25kVA	3P 380V,440V 50/60Hz	10 ~ 500A/ 10V ~ 42V	Under 80V	3P, 380V: 80% (40°C)	80kg	374*607*828mm

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Welding Flow Chart



- CO2 : Use Digital Transmitter / TIG, STICK : Use Analog Remote Box
- Connect feeder and CO2 torch: torch(+), base metal(-)
- Connect remote box to TIG torch: torch(-) , base metal(+)

① GMAW Welding

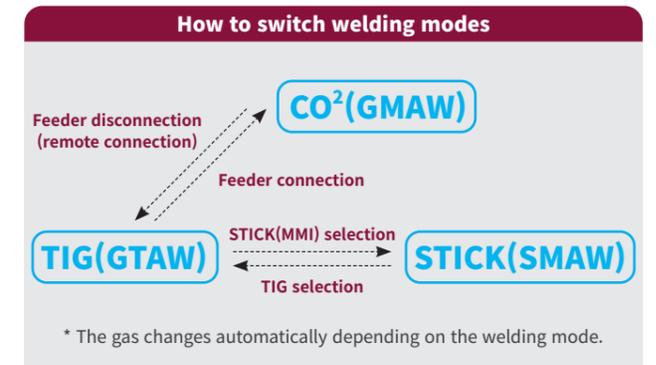
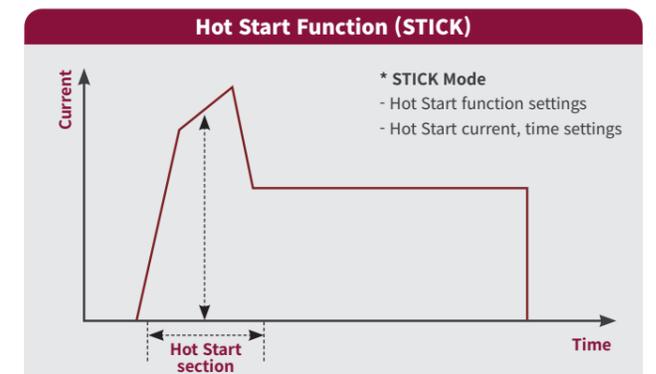
- Based on Constant Voltage (CV) control
- Feeder : set voltage and current values
- MMI : set variables such as initial/latter gas, crater current/voltage etc.
- Torch operation mode can be selected
- CAN communication based data

② GTAW Welding

- Based on Constant Current (CC) control
- Arc start method : HF/LIFT start
- Output : DC/PULSE
- Operation : general mode/repeat mode
- DC Current and peak/base current setting using analog remote box
- MMI : set variables such as initial/latter gas, ascending/descending slope time

③ SMAW (MMA) Welding

- Based on Constant Current (CC) control
- DC current setting using analog remote box
- MMI button : TIG / STICK mode can be selected



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Hi500T HIGH FREQUENCY TIG

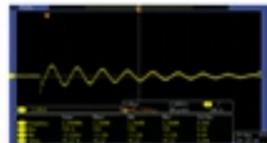
TIG welder with automated system

- 60kHz Full Bridge Converting Digital TIG Welder
- Low current ripple stability: low current welding at 5A and ripple at 1A
- High frequency ignition, maximum voltage of 1kV or less
- Output response Speed of 1msec or less for external analog
- Built-in touch and arc sensing function
- DC/Pulse Features
- External integration available: compatible with analog and digital(RS-232C/CAN) interface, filler(MF401-4E)

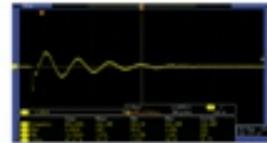


Key Characteristics

Comparison of high frequency ignition

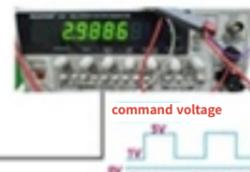


Hi220T / 500T



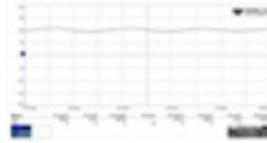
Competitor

Analog command responsiveness: 1msec



square wave occurs at intervals of 3Hz

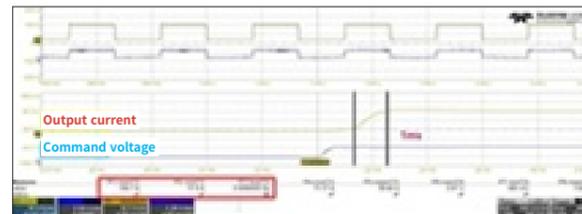
Comparison of ripple size



Hi220T / 500T



Existing product



Product	Rated power	Input voltage	Rated output	Efficiency	No-load voltage	Duty cycle	Weight	Dimensions
Hi220T	7kVA	1P/3P 220V 50/60Hz	5 ~ 220A/ 10V ~ 25V	88%	Under 90V	3P, 220V: 60% 2P, 220V: 40% (40°C)	24kg	220*472*426mm
Hi500T	22.5kVA	1P/3P 380V,440V 50/60Hz	5 ~ 500A/ 10V ~ 38V	90%	Under 80V	3P, 380V: 80% 2P, 380V: 60% (40°C)	50kg	320*600*590mm

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Hi500PIPE MIG/MAG/TIG

Pipe welder with cladding technology

- Built-in features of Hi450P and Hi500T
- Built-in welding techniques for pipes: root to capping
- SAC ROOT(mild steel and stainless), low heat cladding/hardfacing
- Intelligent orbital carriage(HiP-Orbital i) compatibility
- Built-in touch and arc sensing function
- Passive polarity switching (MIG/MAG ↔ TIG)



Intelligent Orbital Carriage (HiP-Orbital i)

- Carriage with built-in orbital welding conditions
- Includes welding condition database for pipes
- Automatic change in welding conditions when welding laminated plates
- Pipe specification input: metal, thickness, diameter, weld angle (Carbon / 8 mm / 650 mm / 27.5 degrees)
- Use preset welding conditions and specifications: use preset welding conditions (A, V, carriage Speed and weaving), and conditions for 3 pass welding

Hi500P/Hi500PIPE + HiP-Orbital Application Results

Welder SAW application Weld result

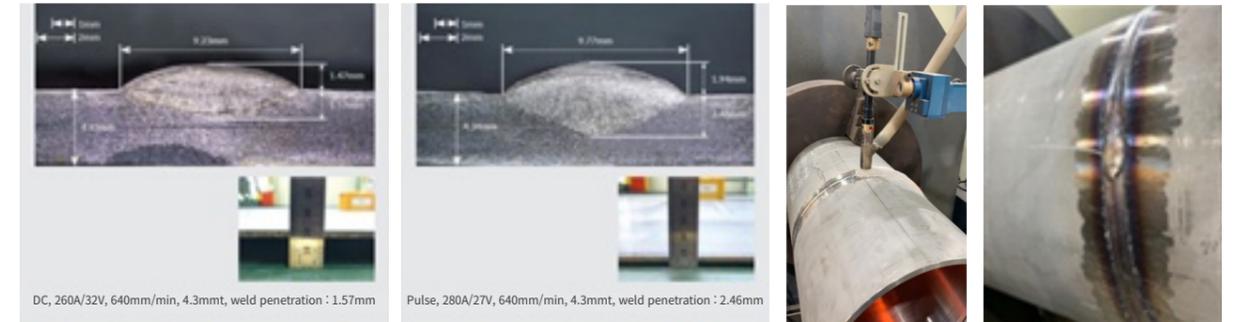
- Reduction of post-treatment and welding passes in SAW application (productivity per day doubled)
- Reduction of heat input due to SPC pulse

Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi500PIPE	22.5KVA	1P/3P 380V,440V 50/60Hz	5 ~ 500A/ 10V ~ 38V	Under 80V	3P, 380V: 80% 2P, 380V: 60% (40°C)	50kg	320*700*620mm

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Pulse Submerged Welding

- For thin plate and pipe welding
- Low heat submerged welding techniques
- Productivity doubled for 10-20 inch pipe welding (compared to FCAW)



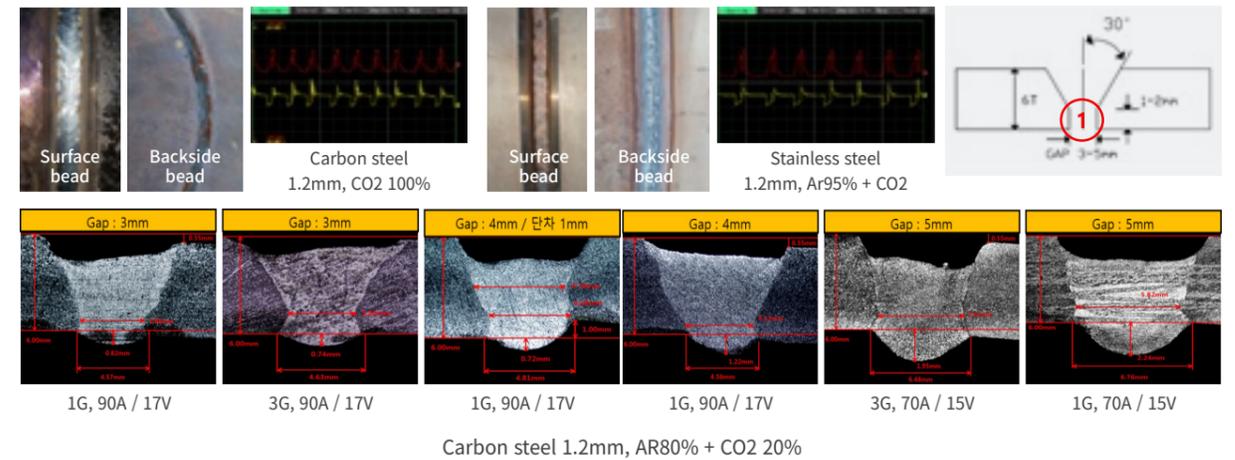
Submerged DC welding:
Penetration increased by 35%, and
base metal deformation decreased by 30%

Thin plates for shipbuilding (6mmt or less)

Pipe : carbon steel,
over 10-inch thickness (250-300A)

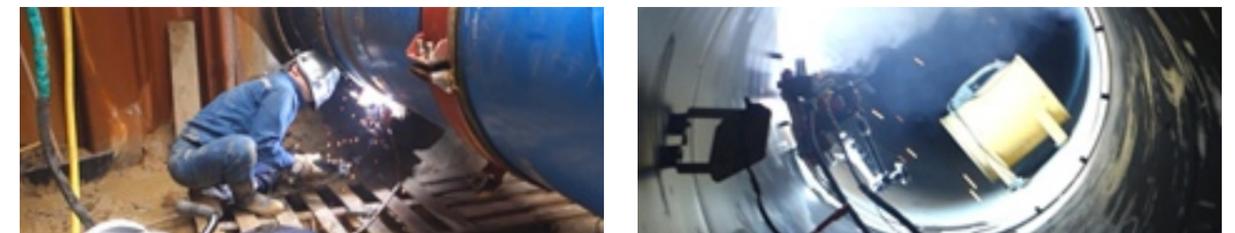
MAG Root Welding

- CO2 gas/MAG gas welding function: SAC Root
- Applicable to carbon steel and stainless



Touch sensing and arc sensing functions

- Touch sensing voltage adjustable
- Arc sensing current/voltage feedback at cycle of 1msec
- Automatic welding function



Water pipe welding (carbon steel), automated inner and outer surface welding using touch sensing and arc sensing (all positions)
SF-71 1.2mm, CO2 100%(190A ~ 220A/22V ~ 24V)

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Hi700SD SUBMERGED(DC)

Inverter DC SAW welder with outstanding weldability via high-precision control

- 9% Ni DC Inverter Welder Hi700SD
- High productivity and welding quality with precise output control



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi700SD	40kVA	3P, 440V±10% or 380V±10% 50/60Hz	700A, 50V	80V	100%	131kg	500*770*850mm

Hi700SA SUBMERGED(AC/DC)

Inverter AC/DC SAW welder with outstanding weldability via high-precision control

- Optimal Arc Start characteristics
- Long durability via protection from overheating, overcurrent, short circuit, etc.
- Good stability of welding output even when input power varies ±10%

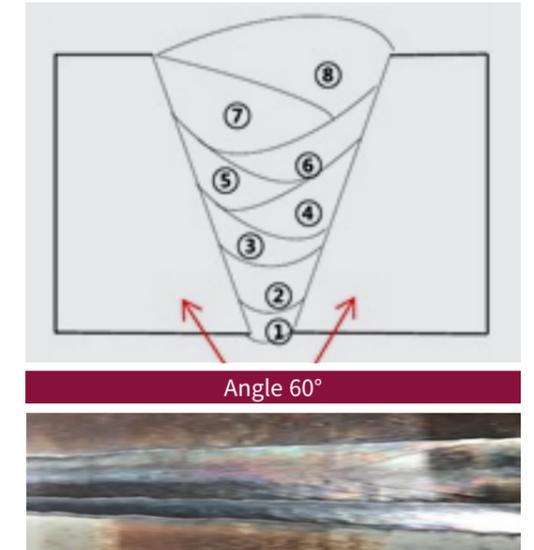


Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi700SA	40kVA	3P, 440V±10% or 380V±10% 50/60Hz	700A, 50V	80V	100%	175kg	500*770*850mm

Images may differ from the actual product. Product and components may change due to product enhancement.

◎ 8 pass weld test for 9% Ni steel using Hi700SD DC

Welding sequence	SAW combination	A	V	cm/min
1	SW-9NiLT 1.4ø			
2	S-Ni4 / SA-9NiS 2.4ø	350	32	30
3	S-Ni4 / SA-9NiS 2.4ø	500	33	60
4	S-Ni4 / SA-9NiS 2.4ø	500	33	60
5	S-Ni4 / SA-9NiS 2.4ø	500	33	55
6	S-Ni4 / SA-9NiS 2.4ø	500	33	55
7	S-Ni4 / SA-9NiS 2.4ø	500	33	50
8	S-Ni4 / SA-9NiS 2.4ø	500	33	50



◎ Welding Process



Images may differ from the actual product. Product and components may change due to product enhancement.

Hi1000SD SUBMERGED(DC)

Optimal inverter DC SAW welder

- Optimal SAW welding process
- B-H Line application
- Long durability & efficient feeding control



3 PHASE SUBMERGED DC CC CV 50/60 Hz

Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi1000SD	60kVA	3P, 440V±10% or 380V±10% 50/60Hz	1000A, 50V	80V	100%	321kg	600*1000*1300mm

Hi1000SA SUBMERGED(AC/DC)

Optimal inverter AC/DC SAW welder

- Compatible for both AC and DC welding
- Easy-to-use control box
- Stable welding Speed even during change of input



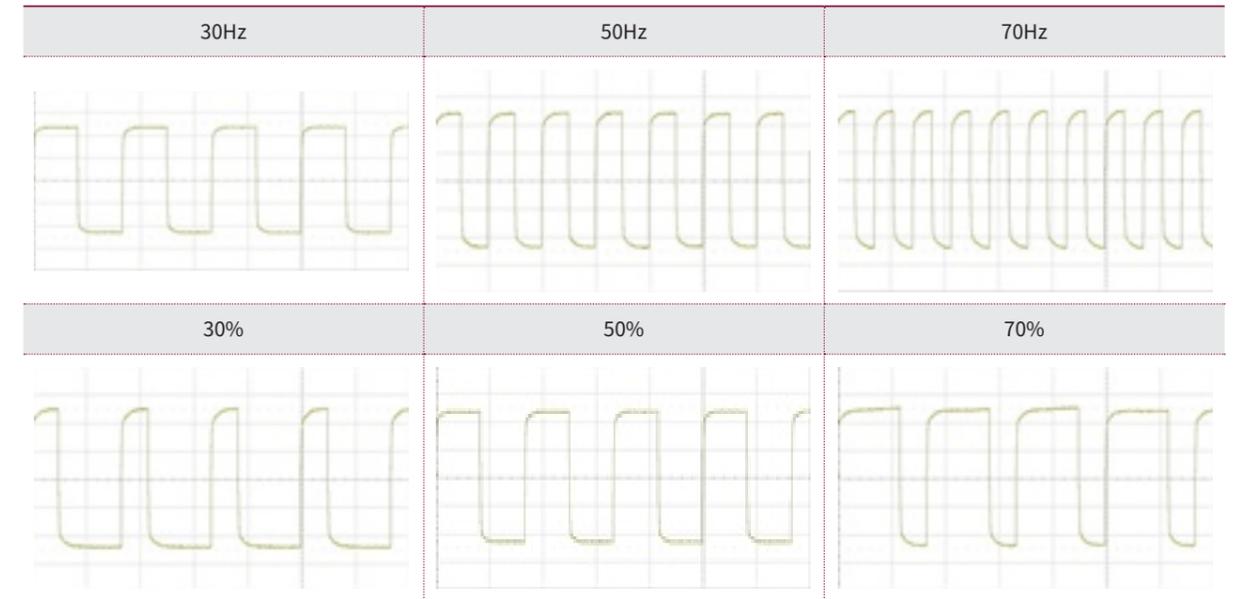
3 PHASE SUBMERGED AC/DC CC CV 50/60 Hz

Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi1000SA	60kVA	3P, 440V±10% or 380V±10% 50/60Hz	1000A, 50V	80V	100%	394kg	600*1000*1300mm

Images may differ from the actual product. Product and components may change due to product enhancement.

Special Function

AC Control



* Function to control frequency and balance for precise control of weld penetration and bead width during AC welding

Weld Bead

High-Mn steel AC welding (3.2mm)

Balance control (500A/32V)

Item	BALANCE 30%	BALANCE 70%
Macro		
Weld penetration(mm)	4	5.7
Reinforcement(mm)	3.9	3.4
Bead width(mm)	20.8	20.5

Images may differ from the actual product. Product and components may change due to product enhancement.

Hi1500SD SUBMERGED(DC)

Large capacity inverter DC SAW welder

- Long durability via protection from overheating, overcurrent, short circuit, etc.
- Good stability of welding output even when input power varies $\pm 10\%$
- Output characteristics can be selected via mode switch



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi1500SD	90kVA	3P, 380,440V \pm 10%, 50/60Hz	1500A, 50V	80V	100%	321kg	600*1000*1300mm

Hi1500SA SUBMERGED(AC/DC)

Large capacity inverter AC/DC SAW welder

- AC/DC power source designed for automatic welding
- High current SAW welding available
- Improved productivity and quality with precisely controlled output

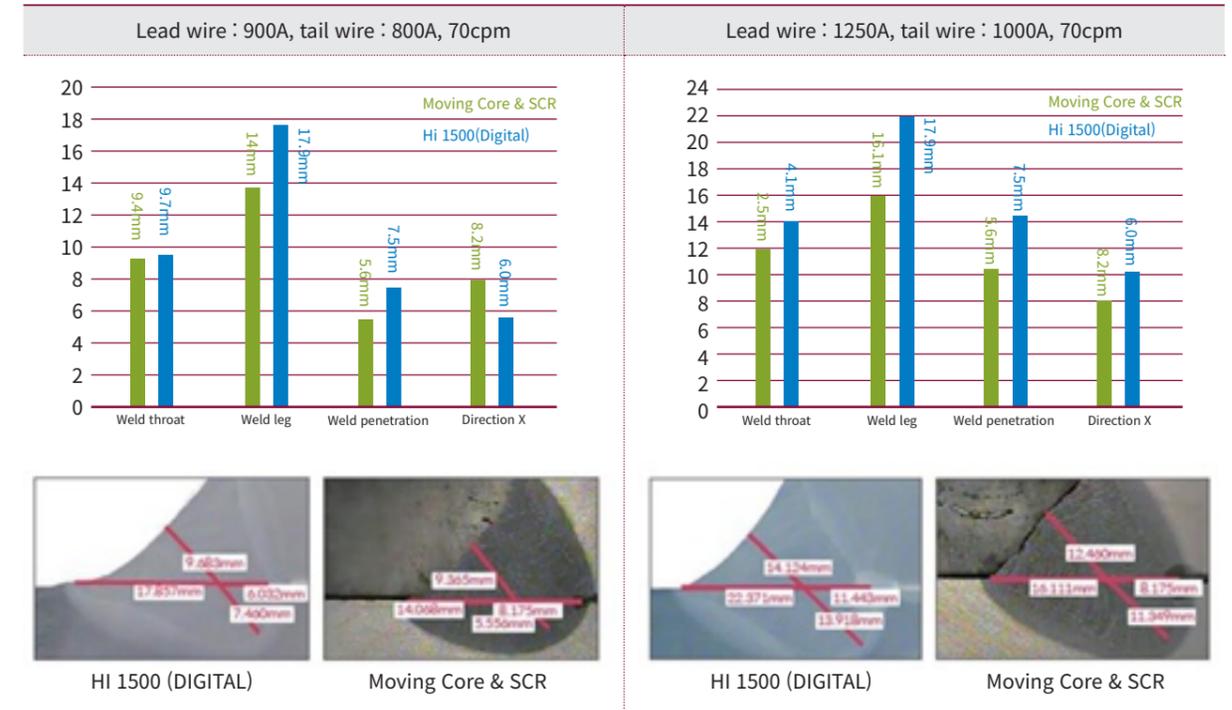


Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi1500SA	90kVA	3P, 380,440V \pm 10%, 50/60Hz	1500A, 50V	80V	100%	409kg	600*1000*1300mm

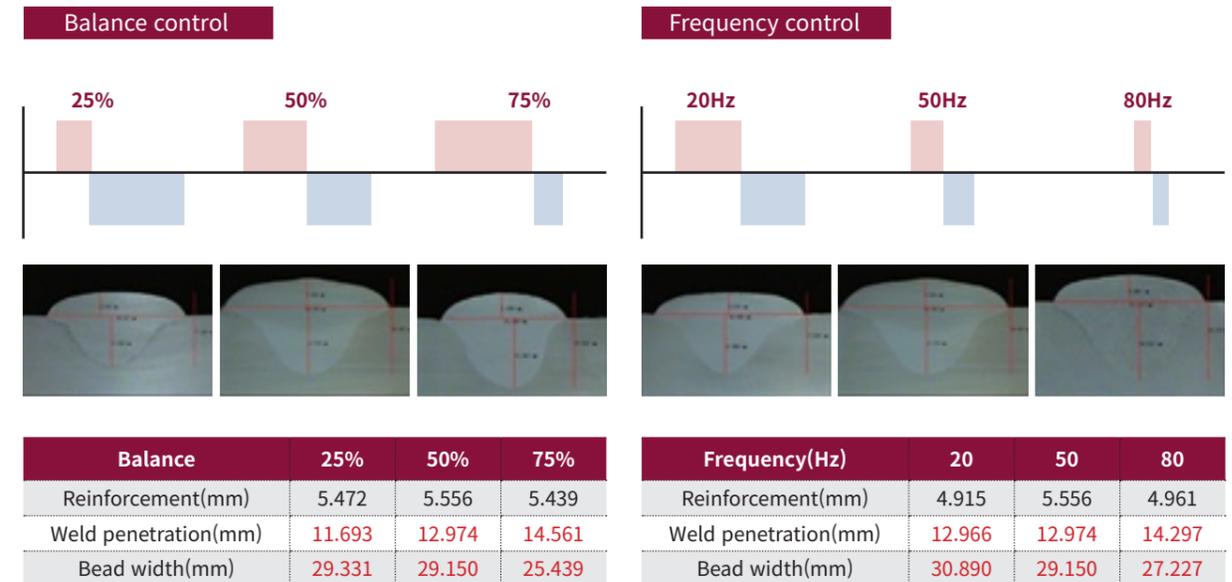
Images may differ from the actual product. Product and components may change due to product enhancement.

◎ Digital and SCR welder comparison

Weldability



◎ Inverter SAW AC frequency control



*Comparison using the same welding conditions(V, A, CPM)

* Comparison using the same welding conditions(V, A, CPM)

Images may differ from the actual product. Product and components may change due to product enhancement.

Hi200PW PLASMA WELDING MACHINE

60kHz full-bridge digital plasma converter

- Integrated pilot power and water cooling system
- DC/Pulse function
- Accurate control for pilot gas flow rate : 0.01 liters/min
- Status log and USB output available
- External compatibility : analog and digital (RS-232C/CAN) interfaces, filler (MF401-4E)



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi200PW	8KVA	3P 220V, 50/60Hz	Main: 10 ~ 200A/15~25V Pilot: 5 ~ 60A/15~30V	Main: 70V Pilot: 90V	60% (40°C)	80kg	394*859*766mm

Hi100PS PILOT POWER UNIT

60kHz full-bridge digital TIG converter

- 60 kHz full bridge converting pilot power supply
- Status log and USB output available
- Ensures stability of pilot current of 10A or less / ripple current of 1A or less
- Automation TIG compatibility: Analog and Digital (RS-232C/CAN) Interface
- Compatible with other TIG equipment including Hi220T/500T



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
Hi100PS	2.5kVA	3P 380V/440V 50/60Hz	10 ~ 60A/ 15 ~ 30V	90V	60% (40°C)	35kg	288*599*415mm

Images may differ from the actual product. Product and components may change due to product enhancement.

MF400/MF401-4E MIG, TIG, WIRE FEEDER

TIG feeder

- Minimum feed Speed of 1.0 m/min
- Excellent feeding stability using encoder: 1.5% Speed accuracy
- Built-in emergency operation mode in case of encoder failure: 3% Speed accuracy
- Extension feeder compatible: MF400-Ex, for manual aluminum welding
- Can save up to 3 different welding conditions



Product	Compatible	Min/Max Speed	Motor	Wire dia (mm)	Input voltage	Weight	Dimensions
MF401-4E	Hi220T/500T	0.5 ~ 8.0 m/min	1	0.9 ~ 1.2	DC48V	11kg	220*518*394mm
MF400-4E	Hi450P/500P, Hi500PIPE Hi500MT	1.0~20.0 m/min	1	0.9 ~ 1.6	DC48V	11.5kg	220*518*394mm

RF400i WIRE FEEDER

Feeder for Hi400i

- Reduced parts susceptible to electric shock
- Powerful feed using 4 rolls
- Compact size



Product	Compatible	Min/Max Speed	Motor	Wire dia	Input voltage	Weight	Dimensions
RF400i	Hi400i	0.8~20.0m/min	1	0.9~1.2mm	DC48V	6kg	192*242*197mm

Product	Compatible	Min/Max Speed	Wire dia	Input voltage	Weight	Dimensions
MF500-4E	Hi450P/500P	1.0 ~ 20.0 m/min	0.9 ~ 1.6mm	DC48V	18.5kg	257*800*414mm
MF400-Ex	Hi500PIPE	1.0 ~ 15.0 m/min	1.2 ~ 1.4mm		3.5kg	160*530*240mm
RF-4EC	Hi500MT	1.0 ~ 20.0 m/min	0.9 ~ 1.6mm		6kg	200*217*202mm

02 INVERTER MIG/MAG

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H600MR	34
LIBERO600M	36
HD AUTO 350S+	37
HD AUTO 600M+	37

INVERTER MIG/MAG

H350S, H350R, H500M, H500MS, H500MG, H500MR

Images may differ from the actual product. Product and components may change due to product enhancement.

H350S MIG/MAG

350A inverter welder

- Optimized arc start according to wire diameter
- Enhanced weld quality via improved ARC



H500MS MIG/MAG

500A inverter welder

- General purpose welder capable of replacing conventional SCR welder
- Improved durability and overcurrent protection
- Arc strength control using electronic reactors



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
H350S	19kVA	3P, 220,380,440V±10%, 50/60Hz	350A, 36V	70V	60%	55kg	370*530*660mm
H350R	19kVA	3P, 220,380,440V±10%, 50/60Hz	350A, 36V	76V	70%	55kg	370*530*660mm
H500M	24.5kVA	3P, 220,380,440V±10%, 50/60Hz	500A, 42V	83V	60%	82kg	425*690*790mm
H500MS	24.5kVA	3P, 220,380,440V±10%, 50/60Hz	500A, 42V	83V	100%	90kg	460*690*870mm
H500MG	24.5kVA	3P, 220,380,440V±10%, 50/60Hz	500A, 42V	83V	100%	90kg	460*690*870mm
H500MR	24.5kVA	3P, 220,380,440V±10%, 50/60Hz	500A, 42V	83V	100%	90kg	460*690*870mm

INVERTER MIG/MAG

HG500SP

Digital / Pulse MIG / Low Spatter / Multi-purpose

Images may differ from the actual product. Product and components may change due to product enhancement.

HG500SP DIGITAL / PULSE MIG / LOW SPATTER

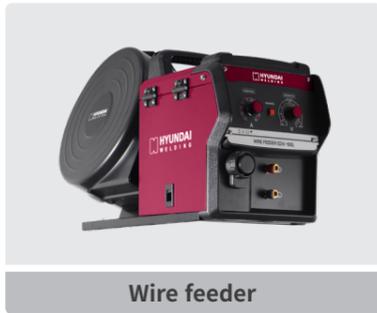
Full digital inverter pulse MIG/MAG welder for production efficiency

Product Characteristics

Multi-purpose digital inverter MIG/MAG welder for optimal production efficiency
For low carbon steel, stainless steel, aluminum, aluminum alloy, copper alloy, nonferrous metal



Accessories



Technical Specifications

Item	Unit	Values
Input voltage	V/ Hz	3P 380±15% 50/60
Rated power	KVA	24
Input current	A	36
Duty cycle(40°C)	%	500A/39V 100%
No-load voltage	V	97
Output current range	A	50~500
Output voltage range	V	12~50
Wire diameter	mm	0.8, 1.0, 1.2, 1.6
Wire feeding type		Push
Gas flow	L/min	15~20
Cooling type		Air cooling/water cooling
Protection class		IP23S
Insulation class		H
Dimensions(L*W*H)	mm	695*300*545
Weight	kg	50

INVERTER MIG/MAG

Images may differ from the actual product. Product and components may change due to product enhancement.

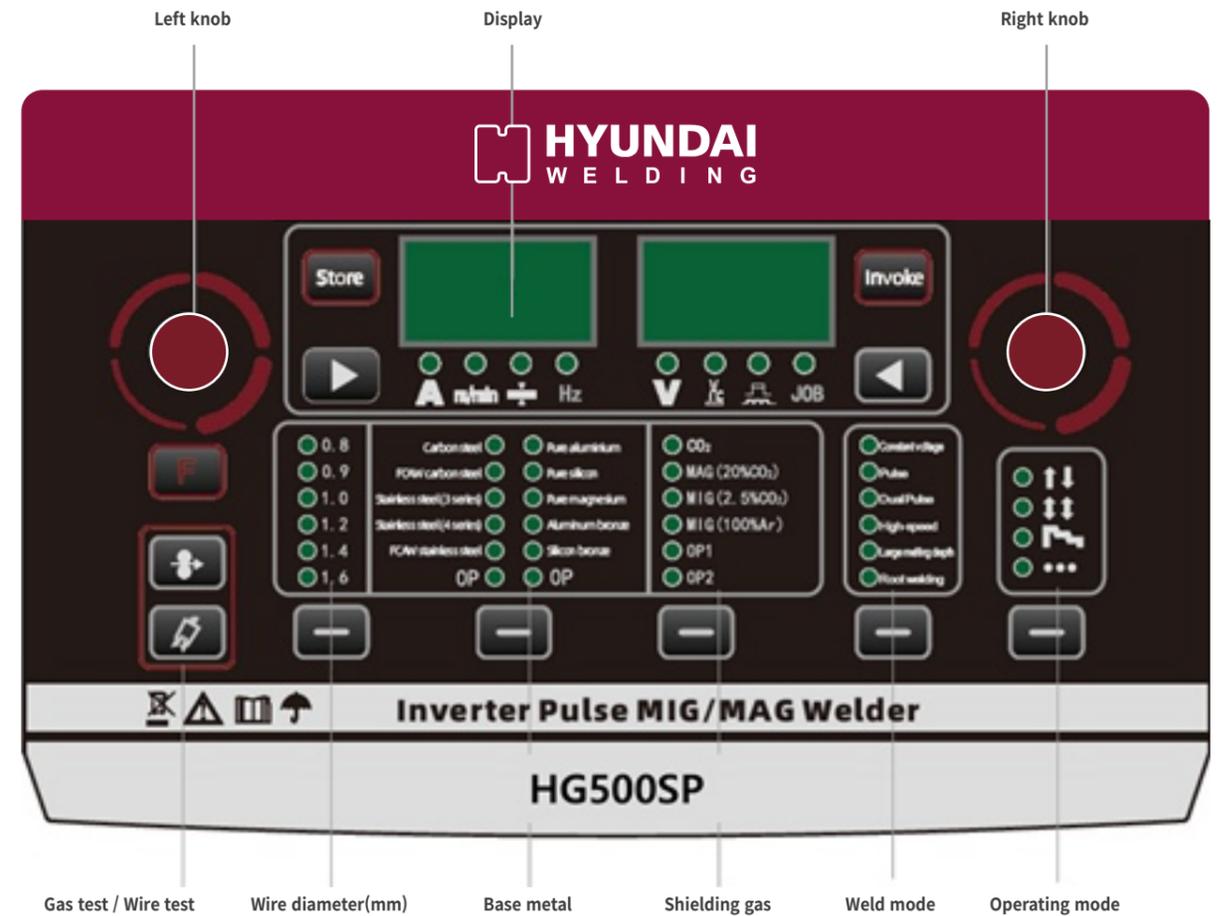
User Interface (UI)

User-friendly interface

- The built-in welding expert database automatically matches optimal welding parameters
- Unified adjustment mode
- Can store up to 100 sets of welding process specifications
- Simple and clear interface



Interface



INVERTER MIG/MAG

Images may differ from the actual product. Product and components may change due to product enhancement.

Key Features

Reliable main circuit



- The main circuit adopts full bridge inverter switch technology, and the main IGBT device adopts import parts
- Designed with independent air duct structure. IGBT is completely closed to prevent dust entry and ensures the reliability of core devices.
- High duty cycle, full current output at 40°C
- Adapts to various power grid conditions, and can meet requirements of generator power supply

Full digital control system

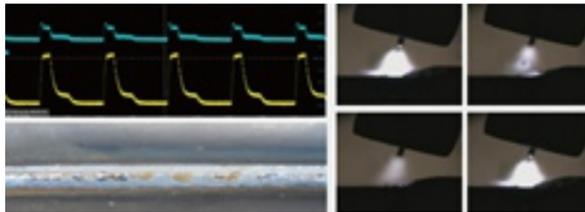


- Full digital control platform
- High-Speed dual ARM chip Main frequency is up to 500M Hz
- High arc control accuracy (1us)
- Circuit compensation function (automatic compensation of cable loss due to length)

Pulsed ARC



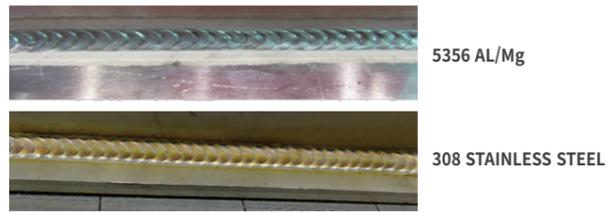
- “One pulse one drop” transition control technology
- All positional welding



Double Pulse ARC



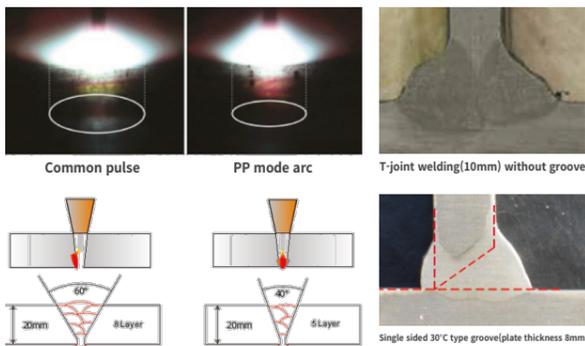
- Accurate wire feeding via high-precision motor
- 100 pulse per turn & closed-loop control algorithm



Deep weld penetration



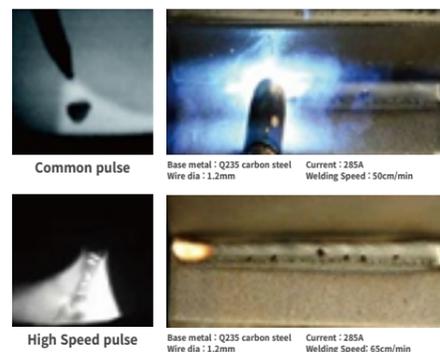
- Forms pulse with high concentration and precision
- Increases arc penetration and fusion of welding seam and base material
- Reduces bevel angle and amount of filling for thick plates



High Speed pulse



- Highly concentrated pulse arc enhances fluidity of melting pool, and improves welding Speed by 20-30% (compared to common pulse)
- Increased deposition rate



INVERTER MIG/MAG

Images may differ from the actual product. Product and components may change due to product enhancement.

Accessories' Specifications

Item	Unit	Values
Motor rated voltage	V	DC42
Rated output power	W	80
Wire feeding Speed	m/min	1.0-24.0
Wire diameter	mm	0.8, 1.0, 1.2, 1.6
Protection class		IP23
Machine size	mm	680*310*380
Weight	KG	16

Item	Unit	Values
Input voltage/Frequency	V/Hz	1P 380±15% 50/60
Input current	A	0.8
Rated output power	W	370
Gas flow	L/min	8
Protection class		IP23
Machine Size(LxWxH)	mm	720*290*235
Weight	KG	20.8

Item	Unit	Values
Machine Size(LxWxH)	cm(in)	111 x 58 x 18 (43.7 x 22.8 x 7)
Weight	kg(lbs)	22kg (48.5lbs)

Recommended Wire Combinations

Process	Product	AWS	Diameter mm(in)	Packaging
GMAW	SM-70	ER70S-6	0.8, 0.9, 1.2, 1.6 (0.033, 0.035, 0.045, 1/16)	5kg, 15kg (11lbs, 33lbs)
FCAW	SF-71	E71T-1C	1.0, 1.2, 1.4, 1.6 (0.040, 0.045, 0.052, 1/16)	12.5kg, 15kg (28lbs, 33lbs)
Aluminum	SMT-4043 SMT-5356	ER4043 ER5356	1.0, 1.2, 1.6 (0.040, 0.045, 1/16)	2kg, 7kg (4.4lbs, 15.4lbs)



Images may differ from the actual product. Product and components may change due to product enhancement.

H600MS MIG/MAG/GOUGING

Bestseller in heavy industry 100% duty cycle welder

- Built-in protection circuit for IGBT overcurrent
- Improved durability by preventing damage to semiconductor devices and control boards
- Optimized arc start according to wire diameter
- Maintains smooth ARC



H600MR MIG/MAG/ROBOT

100% duty cycle welder for robots

- Compatible with robotic (H600MR) and gantry (H600MG) welding
- Detects and protects overtemperature and overcurrent
- Can be used with both analog and digital feeders
- Built-in protection circuit for IGBT overcurrent
- Optimized arc start according to wire diameter

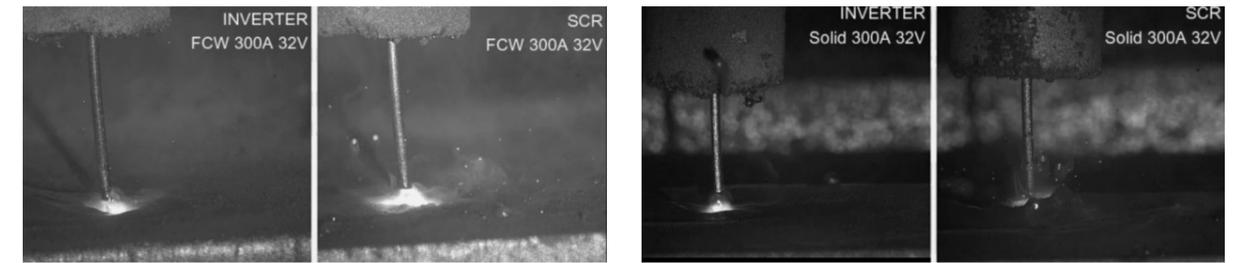


Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
H600M	37kVA	3P, 220,380,440V±10%, 50/60Hz	600A, 50V	83V	60%	82kg	425*690*790mm
H600MS	37kVA	3P, 220,380,440V±10%, 50/60Hz	600A, 50V	83V	100%	90kg	460*690*870mm
H600MG	37kVA	3P, 220,380,440V±10%, 50/60Hz	600A, 50V	83V	100%	90kg	460*690*870mm
H600MR	37kVA	3P, 220,380,440V±10%, 50/60Hz	600A, 50V	83V	100%	90kg	460*690*870mm

Images may differ from the actual product. Product and components may change due to product enhancement.

Spatter Comparison

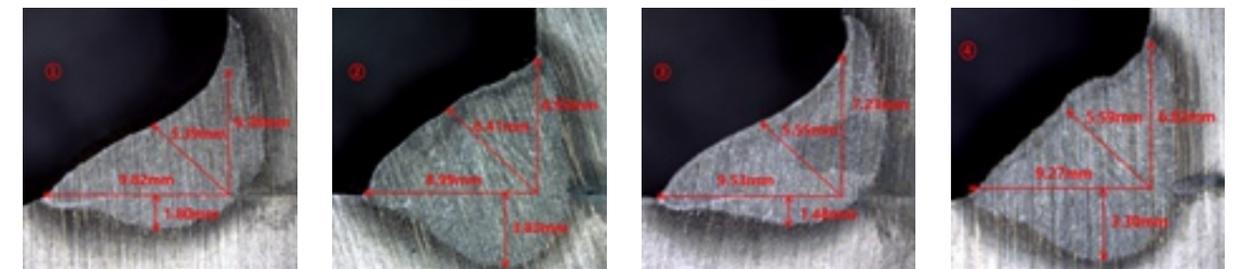
1. The inverter has a more stable arc length compared to that of the SCR, and less spatter is produced.
2. More spatter is generated on the SCR's weld bead surface.



[FCAW, 300A 32V]

[GMAW, 300A 32V]

Comparison of weld leg / weld throat



Welder	Welding conditions (A/V/CPM)	Specimen	Vertical leg	Horizontal leg	Weld throat	Weld penetration
Inverter H600M	300A 32V 30CPM	1/SF71	6.38mm	9.82mm	5.39mm	1.80mm
		2/SM70G	6.93mm	8.99mm	6.41mm	3.83mm
SCR HD AUTO 600	300A 32V 30CPM	3/SF71	7.23mm	9.53mm	5.55mm	1.48mm
		4/SM70G	6.82mm	9.27mm	5.59mm	3.30mm

Conclusion

1. The weld leg of FCAW/GMAW depends on the torch angle, and there is no significant difference in weld legs when using either inverter or SCR welders.
2. The inverter's FCAW weld penetration is 22% deeper than that of the SCR.
3. The inverter's GMAW weld penetration is 16% deeper than that of the SCR.

Images may differ from the actual product. Product and components may change due to product enhancement.

LIBERO 600M MIG/MAG

Digital welder with stable ARC performance in low current welding

- Automatic slow down Speed according to wire diameter
- Excellent weldability across all current ranges
- Built-in protection circuit for IGBT overcurrent
- Improved durability by preventing damage to semiconductor devices and control boards
- Optimized start sequence for a stable ARC start
- Smooth ARC



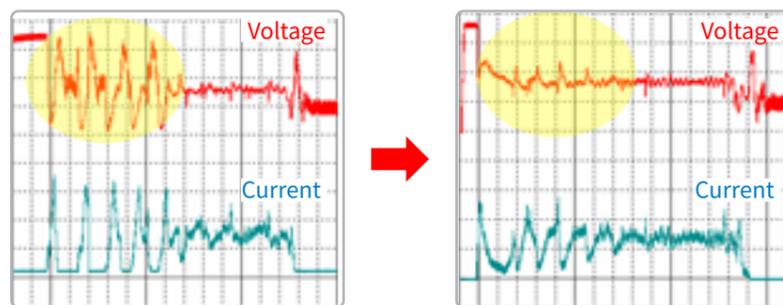
Stable low current welding

- Uses proper voltage for stable re-ignition in case of wire break
- Thanks to optimal voltage data for arc starts, stable arc starts are possible in all welding sections



Improved arc start

- Adjust voltage range to reduce arc intensity during arc start



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
LIBERO600M	40kVA	3P, 220,380,440V ±15%, 50/60Hz	600A, 60V	80V	60%	220kg	490*728*880mm

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HD AUTO 350S + MIG/MAG

350A SCR TYPE

- Notification on LED (control panel) in case of failure
- Minimized failure rate via PCB burn-out prevention circuit
- Overcurrent, overload output is blocked for safety
- High durability
- Minimized standby power using a power saving circuit that is automatically perated via torch switch operation



HD AUTO 600M + MIG/MAG/GOUGING

600A SCR TYPE

- Automatically controls slow down Speed depending on wire
- Excellent weldability across all welding conditions
- Minimized output voltage fluctuation
- Excellent arc stability even when input voltage fluctuates by 10%



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HD AUTO 350S +	18kVA	3P, 220,380,440V ±10%, 50/60Hz	350A, 36V	60V	60%	130kg	420*670*785mm
HD AUTO 500S +	30kVA	3P, 220,380,440V ±10%, 50/60Hz	500A, 42V	70V	60%	203kg	480*695*850mm
HD AUTO 600S+	40kVA	3P, 220,380,440V ±10%, 50/60Hz	600A, 50V	80V	100%	220kg	490*728*880mm
HD AUTO 600M +	40kVA	3P, 220,380,440V ±10%, 50/60Hz	600A, 50V	80V	100%	220kg	490*728*880mm
HD AUTO 800S +	56kVA	3P, 220,380,440V ±10%, 50/60Hz	800A, 50V	80V	70%	250kg	530*728*980mm

03

PORTABLE EQUIPMENT

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PORTABLE

HG200A, HG200AH

Images may differ from the actual product. Product and components may change due to product enhancement.

HG200A MMA

Ultra-light SMAW welder

- High performance, high-efficiency welder
- Lightweight for user convenience
- Enhanced IGBT protection circuit
- Compact size



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HG200A	6.5kVA	1P, 230V± 10%, 50/60Hz	150A	70V	30%	4kg	310*120*223mm

HG200AH MMA/LIFT TIG

MMA welder with Hot Start function

- High performance, high-efficiency welder
- Automatic Hot Start, Arc Force functions
- Lift Tig function
- Includes Voltage reduction device
- Enhanced IGBT protection circuit



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HG200AH	9.6kVA	1P, 230V± 10%, 50/60Hz	200A	82V	30%	5kg	335*120*218

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HG200T MMA/HIGH FREQUENCY TIG/PULSE

Small TIG welder with AC, DC pulse

- High performance for TIG/MMA, Al alloy, carbon steel, stainless steel, titanium
- Enhanced IGBT protection circuit
- High frequency, Lift TIG available
- Protection from over-voltage, over-current, over-temperature via automatic disconnection of output current



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HG200T	8.2KVA	1P, 230V±10%, 50/60Hz	200A	64V	25%	9kg	580*240*430mm

HG200 MIG/MAG/MMA/LIFT TIG

Bestselling gasless MIG welder

- Gasless inverter welder
- 20% lighter than most competitors
- Aluminum, stainless steel welding available
- Enhanced IGBT protection circuit



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HG200	8.5KVA	1P, 230V±10%, 50/60Hz	200A	51V	25%	8kg	450*180*290mm

Images may differ from the actual product. Product and components may change due to product enhancement.

HG200DP MIG/MAG/MMA/DOUBLE PULSE

Double pulse welder

- Excellent aluminium, stainless steel weldability
- Increased duty cycle
- Compatible with 15 kg spools
- Pulse and double pulse function



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HG200DP	8kVA	1P, 110V, 230V±10%, 50/60Hz	200A	60V	60%	14kg	535*230*370mm

HG300 MIG/MAG/MMA/LIFT TIG

3-in-1 300A multi-process welder

- High performance, high-efficiency welder
- Hot Start, Arc Force, Inductance adjustable
- Welding current and voltage visible via digital display
- Sophisticated design



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HG300(220V)	380V 12.1KVA 220V 9.2KVA	3P, 230V or 380V ±10%, 50/60Hz	300A	55V	60%	23kg	617*245*430mm
HG300(380V)	380V 12.1KVA 220V 9.2KVA	3P, 230V or 380V ±10%, 50/60Hz	300A	55V	60%	23kg	617*245*430mm

Images may differ from the actual product. Product and components may change due to product enhancement.

HG40P PLASMA CUTTING

Plasma cutter

- Uses high-efficiency plasma methods
- Fast cutting possible via arc strikes
- Stable output, smooth cut surface
- Enhanced durability with IGBT circuit



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HG40P	6.8KVA	1P, 230V± 10%, 50/60Hz	40A	290V	30%	7kg	455*150*280mm

04

SAW EQUIPMENT AND CARRIAGES

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Images may differ from the actual product. Product and components may change due to product enhancement.

HD42CA SAW CARRIAGE

AC/DC TANDEM welding carriage
with high efficiency

- Maximized efficiency using tandem welding
- SAW AC/DC tandem welding techniques
- Wide current range of 300 to 1500A



Product	Type	Speed	Wire dia	Single/Tandem	AC/DC	Seam tracker	Input voltage	Hopper	Wire spool
HD42CA	Analog	10~100 cm/min	4.0 ~ 6.4mm	Tandem	AC/DC	O	110VAC	12L	25kg
HD42CAD	Analog	10~100 cm/min	4.0 ~ 6.4mm	Tandem	AC/AC	O	110VAC	12L	25kg

HD42WA SAW CARRIAGE

4-wheel carriage capable of precise welding

- SAW AC/DC tandem welding techniques
- Wide current range of 300 to 1500A
- Simplified working process using 75kg wire spool



Product	Type	Speed	Wire dia	Single/Tandem	AC/DC	Seam tracker	Input voltage	Hopper	Wire spool
HD42WA	Analog	10~150 cm/min	4.0 ~ 6.4mm	Tandem	AC/DC	O	3P 220VAC	12L	75kg
HD42WAD	Analog	10~150 cm/min	4.0 ~ 6.4mm	Tandem	AC/AC	O	3P 220VAC	12L	75kg

Images may differ from the actual product. Product and components may change due to product enhancement.

Hi31CI SAW CARRIAGE

3-wheel AC/DC carriage with digital
control box for curved block welding

- 3-wheel carriage for curved block welding
- Digital control box for simple operation and stable weldability via high precision output control
- Compatible with SAW AC, DC



Product	Type	Speed	Wire dia	Single/Tandem	AC/DC	Seam tracker	Input voltage	Hopper	Wire spool
Hi31CI	Digital	10~80 cm/min	2.4 ~ 6.4mm	Single	ALL	X	80VDC	6L	25kg

Hi32CI SAW CARRIAGE

3-wheel TANDEM AC/DC carriage with digital
control box for curved block welding

- 3-wheel carriage for curved block welding
- Maximized efficiency using tandem welding
- Digital control box for simple operation and stable weldability via high precision output control
- Compatible with SAW AC, DC



Product	Type	Speed	Wire dia	Single/Tandem	AC/DC	Seam tracker	Input voltage	Hopper	Wire spool
Hi32CI	Digital	10~100 m/min	4.0 ~ 6.4mm	Tandem	ALL	O	80VDC	12L	25kg

Images may differ from the actual product. Product and components may change due to product enhancement.

Hi41CI SAW CARRIAGE

AC/DC carriage with digital control box for high precision welding

- Digital control box for simple operation and stable weldability via high precision output control
- Compatible with SAW AC, DC



Product	Type	Speed	Wire dia	Single/Tandem	AC/DC	Seam tracker	Input voltage	Hopper	Wire spool
Hi41CI	Digital	10~80 cm/min	2.4 ~ 6.4mm	Single	ALL	X	80VDC	6L	25kg

Hi42CI SAW CARRIAGE

AC/DC TANDEM carriage with digital control box for high precision welding

- Maximized efficiency using tandem welding
- Digital control box for simple operation and stable weldability via high precision output control
- Compatible with SAW AC, DC



Product	Type	Speed	Wire dia	Single/Tandem	AC/DC	Seam tracker	Input voltage	Hopper	Wire spool
Hi42CI	Digital	10~100 cm/min	4.0 ~ 6.4mm	Tandem	ALL	O	80VDC	12L	25kg

Images may differ from the actual product. Product and components may change due to product enhancement.

HD31CA SAW CARRIAGE

AC carriage for curved pipe welding

- 3-wheel carriage for curved welding
- Compatible with HERA for SAW AC welding
- Changes to push button type mode in control box when linked with HERA

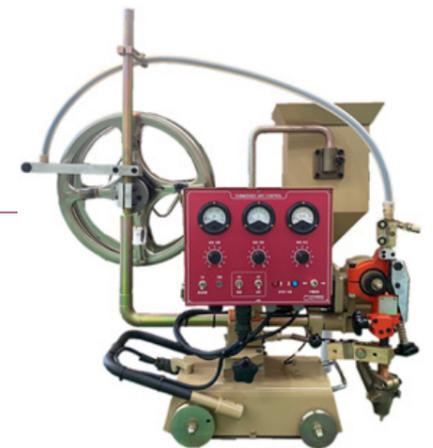


Product	Type	Speed	Wire dia	Single/Tandem	AC/DC	Seam tracker	Input voltage	Hopper	Wire spool
HD31CA	Analog	10~80 cm/min	2.4 ~ 6.4mm	Single	AC	X	110VAC	6L	25kg
HD31CD	Analog	10~80 cm/min	2.4 ~ 6.4mm	Single	DC	X	110VAC	6L	25kg

HD41CA SAW CARRIAGE

AC carriage with excellent feedability

- Optimized for AC analog welding
- Compatible with HERA for SAW AC welding
- Changes to push button type mode in control box when linked with HERA



Product	Type	Speed	Wire dia	Single/Tandem	AC/DC	Seam tracker	Input voltage	Hopper	Wire spool
HD41CA	Analog	10~80 cm/min	2.4 ~ 6.4mm	Single	AC	X	110VAC	6L	25kg
HD41CD	Analog	10~80 cm/min	2.4 ~ 6.4mm	Single	DC	X	110VAC	6L	25kg

Images may differ from the actual product. Product and components may change due to product enhancement.

HERA1500 SUBMERGED(AC)

Moving core AC SAW welder

- High durability and simple maintenance
- High capacity AC welder



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HERA1500	92kVA	1P, 220,380,440V ±10%, 50/60Hz	1500A, 90V	90V	80%	620kg	760*1180*1440mm

ZEUS1500 SUBMERGED(DC)

Digital DC SAW welder

- For medium to thick stainless steel plates in shipbuilding, structural, automotive, pressure vessel industries
- High efficiency and stable weldability
- Various weldability options (constant voltage, constant current, load)
- Digital sequence control



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
ZEUS1000	80kVA	3P, 220,380,440V ±10%, 50/60Hz	1000A, 28V	72V	80%	415kg	750*1100*1150mm
ZEUS1500	120kVA	3P, 220,380,440V ±10%, 50/60Hz	1500A, 28V	75V	80%	700kg	780*1135*1490mm
ZEUS2000	160kVA	3P, 220,380,440V ±10%, 50/60Hz	2000A, 28V	82V	80%	720kg	800*1050*1400mm

05 TIG EQUIPMENT

ALPHA II 500M	50
MHW200DM	50
BETA200D	51
BETA500AP	51

Images may differ from the actual product. Product and components may change due to product enhancement.

ALPAH II 500M HF TIG(DC)

Saturable TIG welder for shipbuilding, plants, and construction

- Stable load characteristics and wide current range
- High-frequency arc start allows for improved weldability even with extended torch
- Proven durability in high temperature and humid conditions in Middle East and Southeast Asia
- Remote control system allows users to control from a long distance



MHW200DM HOT TIG WIRE(DC)

Hot wire TIG welder



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
ALPHA II 500M	40kVA	3P, 220,380,440V ±10%, 50/60Hz	500A, 40V	80V	60%	234kg	480*800*960mm
ALPHA III 500M	40kVA	3P, 220,380,440V ±10%, 50/60Hz	500A, 40V	80V	60%	234kg	480*800*960mm
MHW200DT		3P, 220,380,440V ±10%, 50/60Hz	150A		60%		280*500*560mm
MHW200DM		3P, 220,380,440V ±10%, 50/60Hz	200A		60%		280*500*560mm

Images may differ from the actual product. Product and components may change due to product enhancement.

BETA200D HF TIG/MMA

Portable mini TIG welder

- Portable welder for travel and after service
- Improved stability of TIG welding arc
- Simplified TIG welding accessories



BETA 500AP HF TIG/MMA/PULSE

Welder with stabilized bead via full bridge technology

- AC/DC inverter tig welder with excellent low to high Speed pulse function
- Excellent output and durability with full bridge technology (over 200A)
- AC/DC TIG, AC/DC MMA, AC/Pulse TIG can all available
- Various protective functions such as detection of low voltage and overvoltage
- Long product life cycle thanks to low stress induced by switching device



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
BETA200D	8kVA	1P 220V±10%	200A, 18V	72V	60%	11kg	180*400*220mm
BETA350DP	11kVA	3P, 220,380,440V ±10%, 50/60Hz	350A, 24V	75V	60%	25kg	260*510*465mm
BETA500DP	17kVA	3P, 220,380,440V ±10%, 50/60Hz	500A, 30V	90V	60%	60kg	390*520*620mm
BETA300	8.3kVA	1P 220V±10%	300A,	74V	60%	19.6kg	205*450*360mm
BETA350AP	11kVA	3P, 220,380,440V ±10%, 50/60Hz	350A, 24V	70V	60%	65kg	390*520*620mm
BETA500AP	17kVA	3P, 220,380,440V ±10%, 50/60Hz	500A, 30V	70V	60%	79kg	410*600*740mm

06 MMA EQUIPMENT

PONY2200H	53
PONY2230H	53
PHANTOM1075	54
HAW300	54

Images may differ from the actual product. Product and components may change due to product enhancement.

PONY2200H MMA(DC)

Powerful mini MMA welder

- Easily portable
- Works anywhere with 220V outlet
- Can be used with carbon steel, stainless steel, alloy steel



PONY2230H MMA(DC)

MMA welder specialized in bead quality



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
PONY1600	7kVA	1P, 220V±10%, 50/60Hz	180A, 28V	72V	60%	11kg	180*380*220mm
PONY2200H	8kVA	1P, 220V±10%, 50/60Hz	200A, 28V	73V	60%	13kg	185*450*245mm
PONY2230H	11kVA	1P, 220V±10%, 50/60Hz	230A, 30V	73V	60%	15kg	285*440*215mm
PONY2300H	14kVA	1P, 3P, 220,380,440V ±10%, 50/60Hz	300A, 32V	73V	60%	20kg	305*450*360mm
PONY2400H	18kVA	1P, 3P, 220,380,440V ±10%, 50/60Hz	400A, 36V	90V	60%	58kg	390*520*620mm
PONY2500H	25kVA	1P, 3P, 220,380,440V ±10%, 50/60Hz	500A, 40V	90V	60%	76kg	410*600*740mm

Images may differ from the actual product. Product and components may change due to product enhancement.

PHANTOM1075 MMA(AC)

Movable iron core structure
welder of Cu-based transformer

- Semi-permanent durability with H-type insulation
- Stable arc output
- Convenient and stable thanks to built-in lightning protection



1 PHASE SMAW AC CC VRD 50/60 Hz

Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
PHANTOM1075	14kVA	1P, 220,380, 220/440V ±10%, 50/60Hz	180A, 29V	75V	30%	65kg	370*520*550mm
PHANTOM1100	20kVA	1P, 220,380, 220/440V ±10%, 50/60Hz	250A, 32V	75V	30%	70kg	370*520*550mm
PHANTOM1150	30kVA	1P, 220,380, 220/440V ±10%, 50/60Hz	400A, 36V	85V	40%	115kg	435*595*620mm
PHANTOM1200	40kVA	1P, 220,380, 220/440V ±10%, 50/60Hz	500A, 40V	85V	40%	125kg	435*595*620mm
PHANTOM1250	50kVA	1P, 220,380, 220/440V ±10%, 50/60Hz	600A, 45V	90V	50%	140kg	470*625*650mm
PHANTOM1300	60kVA	1P, 220,380, 220/440V ±10%, 50/60Hz	700A, 45V	90V	50%	150kg	470*625*650mm

HAW300 AC MMA

AC arc welder

- Approved by the Korea Occupational Safety and Health Agency Act
- Built-in lightning protection device
- No-load voltage less than or equal to 25 volt



1 PHASE SMAW AC CC VRD 50/60 Hz

Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HAW300	24kVA	3P 220V/380V/440V 50/60Hz	60~300A/35V	40V	40% (40°C)	120kg	380*490*680mm

07 GOUGING & PLASMA EQUIPMENT

HYCUT800	56
HYCUT1000	56
HYPLA100	57
HYPLA150	57

Images may differ from the actual product. Product and components may change due to product enhancement.

HYCUT800 GOUGING

800A DC gouging machine

- Power control allows for detailed gouging
- Semi-permanent durability with minimal vibration and noise



HYCUT1000 GOUGING

Gouging cutting machine

- Use gouging rod of 4 to 10mm
- Used for improving solid wire work
- For shipyards, construction and plant work sites



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HYCUT800	60kVA	3P, 220,380,440V ±10%, 50/60Hz	800A, 43V	80V	60%	370kg	600*900*1080mm
HYCUT1000	77kVA	3P, 220,380,440V ±10%, 50/60Hz	1000A, 50V	85V	60%	360kg	620*830*1140mm
HYCUT1500	120kVA	3P, 220,380,440V ±10%, 50/60Hz	1500A, 45V	90V	80%	690kg	760*1210*1270mm
HYCUT1500AC	120kVA	3P, 220,380,440V ±10%, 50/60Hz	1500A, 45V	90V	80%	690kg	760*1210*1270mm
HYCUT2000	160kVA	3P, 220,380,440V ±10%, 50/60Hz	2000A, 50V	90V	80%	920kg	860*1210*1530mm

Images may differ from the actual product. Product and components may change due to product enhancement.

HYPLA100 PLASMA

High-Speed cutting without thermal deformation

- Neat cutting without thermal deformation
- Fast and accurate cutting of almost any type of metal without thermal deformation
- Fast removal of applied metal and minimized heating of base metal



HYPLA150 PLASMA

Widely compatible plasma cutter that works with stainless steel, aluminum, iron, copper, brass, etc.

- Excellent arc start
- FBT PILOT ARC provides a good arc start for both contact and non-contact
- Excellent weldability during rewelding thanks to clean cut surface



Product	Rated power	Input voltage	Rated output	No-load voltage	Duty cycle	Weight	Dimensions
HYPLA70	7kVA	1P,3P, 220V±10%, 50/60Hz	70A, 100V	315V	60%	22kg	250*480*380mm
HYPLA70C	8kVA	1P,3P, 220V±10%, 50/60Hz	65A, 128V	325V	60%	28kg	250*480*380mm
HYPLA100	12kVA	1P, 3P, 220,380,440V±10%, 50/60Hz	100A, 110V	280V	60%	51kg	365*705*575mm
HYPLA130	23kVA	1P, 3P, 220,380,440V±10%, 50/60Hz	130A, 120V	280V	90%	55kg	365*705*575mm
HYPLA150	27kVA	1P, 3P, 220,380,440V±10%, 50/60Hz	150A, 130V	280V	90%	58kg	365*705*575mm

08

WELDING SYSTEMS & CARRIAGES

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WELDING SYSTEMS & CARRIAGES

EGW CARRIAGE (Horizontal)
EGW CARRIAGE (Vertical)

Images may differ from the actual product. Product and components may change due to product enhancement.

Hi-EGWH EGW HORIZONTAL

EGW HORIZONTAL

- Use of durable copper alloys
- Optimized torch thermal reduction using water cooler
- 1 pass welding available from 10 to 45T



Product	Driving method	Speed	Copper shoe (W*D*H)	Torch angle	Weaving Type	Motor	Weight	Dimensions
EGW-H CARRIAGE	Rack pinion	0~300 mm/min	54*20*66mm	20	start/stop, for/backward dwell time, frequency, amplitude	DC90V 30W 3,000RPM	15kg	400*310*285mm

Hi-EGWV EGW VERTICAL

EGW VERTICAL

- Rack pinion type carriage with rail for smooth driving
- Maximized weld quality via stabilized driving
- High durability



Product	Driving method	Speed	Copper shoe (W*D*H)	Torch angle	Weaving Type	Motor	Weight	Dimensions
EGW-V CARRIAGE	Rack pinion	0~300 mm/min	54*20*66mm	20	start/stop, for/backward dwell time, frequency, amplitude	DC90V 30W 3,000RPM	15kg	400*310*285mm

Images may differ from the actual product. Product and components may change due to product enhancement.

CHAIN TYPE CARRIAGE HiP-Orbital i

- Accurate digital settings of welding conditions
- Wide adjustment range of carriage: adjustable torch angle, carriage position, etc.
- Intelligent welding conditions database: welding conditions can be called according to pipe specifications
- Includes welding condition database for multi-layer welding
- Lightweight: 40% smaller than existing orbital carriages
- Adjustable rail size of +15% (e.g.: 650mm to 750mm)

Carriage system configuration



Controller

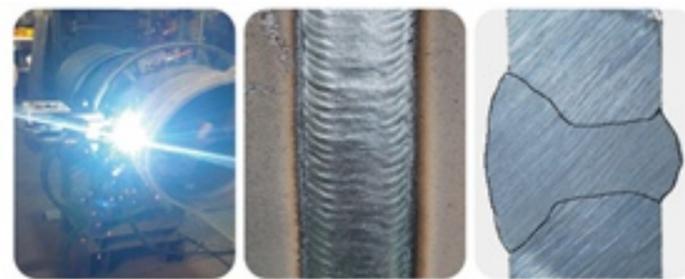


Rail



In operation

- Orbital carriage with built-in welding conditions
- Includes welding condition database according to pipe specifications
- Automatic return to starting point and automatic change of welding conditions during multipass welding
- Pipe specification input: material, thickness, diameter, improvement angle (carbon / 8 mm / 650 mm / 27.5 degrees)
- Check welding conditions and specifications: A, V, carriage Speed, weaving, 3 pass conditions

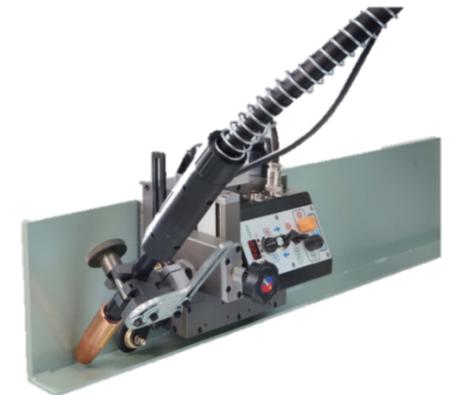


Product	Input voltage	Speed	Deceleration ratio	Angle	Motor	Weight	Dimensions
HiP-Orbital i	DC24V	30~800 mn/min	400:1	360°	12W, 5000RPM	120kg	380*490*680mm

Images may differ from the actual product. Product and components may change due to product enhancement.

HC-41 Fillet Wall Travelling Switch and Continuous Welder

- Wall-driving carriage
- Skip welding and continuous fillet welding available in desired mode
- Minimized gear backlash and maximized weld quality via constant Speed drive
- Automatic stop at the end of welding using the proximity sensor switch
- Superb weld quality at the start and end of welding
- Minimized size, light and portable



Product	Input voltage	Wheel type	Speed	Motor	Pulling capacity	Absorption capacity	Weight	Dimensions
HC41	AC 1P 110V~230V 50/60Hz	4-WHEEL DRIVE	0~196 cm/min	DC24V, 12W, 5000RPM	14kg	30kg	7.5kg	370*210*288mm

HS5A Lever-type Fillet Lightweight Carriage

- Horizontal fillet automatic welding carriage
- LED display shows driving Speed
- Easily attachable and detachable with magnetic lever
- Weldable both ways

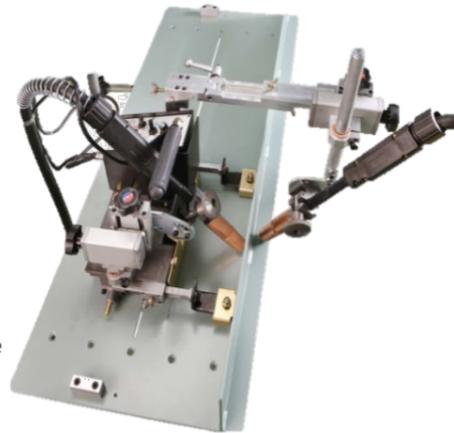


Product	Input voltage	Wheel type	Speed	Motor	Pulling capacity	Absorption capacity	Weight	Dimensions
HS5A	AC 1P 110V~230V 50/60Hz	4-WHEEL DRIVE	0~98 cm/min	DC24V, 12W, 5000RPM	16kg(75°)	34kg	8.2kg	198*314*281mm

Images may differ from the actual product. Product and components may change due to product enhancement.

HC-51B Fillet Switch and Continuous Dual side Welder

- 2 torches allow for double-sided welding
- 2 torches increase efficiency and reduce costs
- Minimized gear backlash and maximized weld quality via constant Speed drive
- Automatic stop at the end of welding using the proximity sensor switch
- Superb weld quality at the start and end of welding



Product	Input voltage	Wheel type	Speed	Motor	Pulling capacity	Absorption capacity	Weight	Dimensions
HC51B	AC 1P 110V~230V 50/60Hz	4-WHEEL DRIVE	0~98 cm/min	DC24V, 12W, 5000RPM	25kg	30kg	10.5kg	359*585*544mm

HC-51WE Fillet Weaver for Vertical Up

- Carriage for vertical-up fillet welding
- Remote control available
- Setting Speed in cm/min or inch/min available via built-in program
- Straight and curved torch compatible



Product	Input voltage	Wheel type	Speed	Motor	Reducer	Vertical angle	Weight	Dimensions
HC51WE	AC 1P 110V~230V 50/60Hz	4-WHEEL DRIVE	0~88 cm/min	DC24V, 12W, 5000RPM	1000:1	45 ±10	9.2kg	332*309*237mm

Images may differ from the actual product. Product and components may change due to product enhancement.

HC-100C Butt/Fillet Weaving welder with Magnet On-Off switch

- Rail driving available in all positions (vertical, horizontal, fillet, butt) with weaving
- Easily attachable and detachable lightweight rails using magnetic on/off switch
- Specially manufactured Weaver reducer, lack of gear backlash, excellent weld quality
- Minimized size, light and portable
- Setting Speed in cm/min or inch/min available via built-in program



Product	Input voltage	Wheel type	Speed	Motor	Weaving width	Weaving speed	Weight	Dimensions
HC100C	AC 1P 110V~230V 50/60Hz	RACK- PINION	0~88 cm/min	DC24V, 12W, 5000RPM	16°	0~5 rpm/min	6.8kg	340*209*241mm

HC-V Fillet Weaver for Vertical Up, T-BAR Welder

- Vertical-up fillet weaver, T-bar welding carriage
- Weaving width adjustable
- Weaving welder for corner welding
- Improved weld quality with smooth weaving
- Easy control for longitudinal and T-bar welding on aluminum rails
- Magnetic rail on/off switch
- Touch sensors enable easy carriage movement



Product	Input voltage	Wheel type	Speed	Motor	Body weight	Rail weight	Total weight	Dimensions
HC-V	AC 1P 110V~230V 50/60Hz	RACK- PINION	0~88 cm/min	DC24V, 12W, 5000RPM	6kg	3kg	9kg	247*306*254mm

Images may differ from the actual product. Product and components may change due to product enhancement.

HC-61WC Fillet/Butt Multi Curved(3D) welder with Flexible guide rail

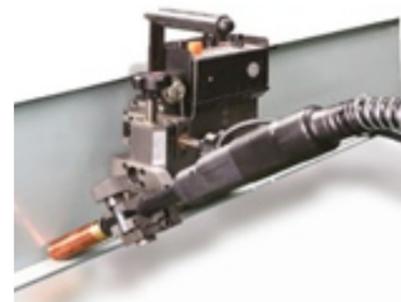
- 3D fillet, curved butt welding available with attachable guide rail
- Adjustable guide rail settings
- Simple welding part settings according to welding positions
- Minimized rail curve : front/rear radius (R1,500) left/right radius (R3,000)
- Easily attachable and detachable magnetic rails
- Minimized size, light and portable



1 PHASE	4	RAIL	REMOTE	MIG/MAG	MCU	50/60 Hz			
Product	Input voltage	Wheel type	Speed	Motor	Weaving width	Weaving speed	Weight	Dimensions	
HC100C	AC 1P 110V~230V 50/60Hz	4-WHEEL DRIVE	0~98 cm/min	DC24V, 40W, 4000RPM	4°	0~5 rpm/min	8.3kg	340*209*241mm	

HS41S Fillet with Weaving welder for Vertical-up

- Wall-driving carriage
- Skip welding and continuous fillet welding available in desired mode
- Minimized gear backlash and maximized weld quality via constant Speed drive
- Automatic stop at the end of welding using the proximity sensor switch
- Superb weld quality at the start and end of welding
- Minimized size, light and portable



1 PHASE	3 PHASE	4	MIG/MAG	LED	50/60 Hz			
Product	Input voltage	Wheel type	Speed	Motor	Pulling	Absorption capacity	Total weight	Dimensions
HS41S	AC 1P 110V~230V 50/60Hz	4-WHEEL DRIVE	0~98 cm/min	DC24V, 12W, 5000RPM	14kg	30kg	5.69kg	341*169*303mm

Images may differ from the actual product. Product and components may change due to product enhancement.

Collaborative Robot(Cobot) Welding System Cobot Welding Automation System using Simple Programming

Introduction to Cobots

In today's manufacturing, the quality of a weld is highly dependent on the individual skill and experience of welders. Therefore, manufacturers that do not have high quality manpower lack production efficiency. In order to improve efficiency and reliability, automation using robot welding solutions is required. However, investment in automation is a scary concept since it is perceived costly.

Luckily, Hyundai Welding offers integrated cobot welding solutions with simplified programming. The robot's arm can simply be moved to the start of the weld, and detects collision on its own. These robots may be installed on any worksite, and they offer a template where one can easily set their own preferred welding conditions.



Main functions of Hyundai's Cobot



Direct Teaching

moved to the weld start and The robot's arm may be finish.



Collision Detection

This function allows for safe collision-free work environments.



Easy Programming

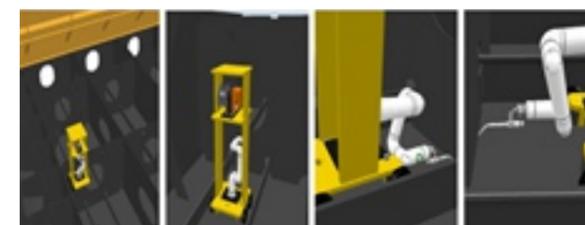
Custom welding conditions can easily be set following the welding condition template.



Simple Installation

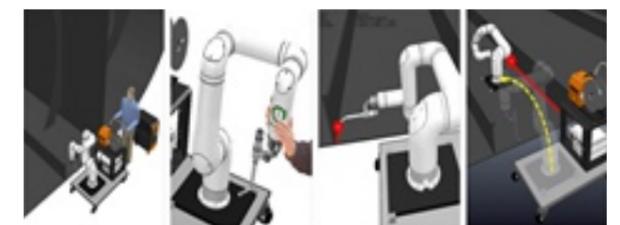
The robot arm can also be installed on the wall and ceiling via a magnetic base.

Application



For general welding stations

For general welding stations, the robot arm can be moved and positioned using a hoist. A touch sensor then allows the welder to set the start and finish point. Finally, welding can be tracked in real-time using an arc



For narrow welding stations

For narrow welding stations, first place the hand cart holding the welding arm near the welding station. Manually direct the arm to the starting point of the weld. If necessary, the robot arm can be fixed to the block using a magnetic base.

* For more information on our robotic welding systems, please refer to the robotic welding solution section on www.hyundaiwelding.com.

9

OVENS & CABINETS

DRY OVEN 67
 FLUX RECOVERY 67

OVENS & CABINETS

DRY OVEN 100, 300, 500, 1000
 FLUX RECOVERY HD2351, 3050, 3400, 3650

Images may differ from the actual product. Product and components may change due to product enhancement.

DRY OVEN 1000KG DRY OVEN

Large capacity dry oven

- Advanced temperature and humidity sensor
- Easily portable with 4 wheels
- Durable with robust design
- Low noise, high efficiency, semi-permanent use



Product	Warm up time	Input voltage	Temperature	Type	Weight	Dimensions	Inner Dimensions
DRY OVEN 100KG	120Min	1P, 3P, 220,380,440V ±10%, 50/60Hz	50~400°C	Electrode, Can, Flux, Can&Flux	140kg	800*700*700mm	300*550*500mm
DRY OVEN 300KG	120Min	1P, 3P, 220,380,440V ±10%, 50/60Hz	50~400°C	Electrode, Can, Flux, Can&Flux	250kg	1530*1100*860mm	600*600*750mm
DRY OVEN 500KG	120Min	1P, 3P, 220,380,440V ±10%, 50/60Hz	50~400°C	Electrode, Can, Flux, Can&Flux	450kg	1320*1300*950mm	640*750*960mm
DRY OVEN 1000KG	120Min	1P, 3P, 220,380,440V ±10%, 50/60Hz	50~400°C	Electrode, Can, Flux, Can&Flux	700kg	1650*1300*1175mm	500*1000*1000mm

HD 3065 FLUX RECOVERY

Flux recovery system

- Long life cycle with enhanced bag filter
- Comfortable working environment with minimized noise



Product	Degree of vacuum	Input voltage	Intake diameter	Horse power	Output power airflow	Dust collecting capacity	Weight	Dimensions
HD 2351	2300mmAQ	1P, 3P, 220,380,440V ±10%, 50/60Hz	30 ~ 50mm	3	2.2kW	40L	107kg	900*450*1150mm
HD 3065	3050mmAQ	1P, 3P, 220,380,440V ±10%, 50/60Hz	30 ~ 50mm	5	3.7kW	40L	128kg	900*450*1150mm
HD 3474	3400mmAQ	1P, 3P, 220,380,440V ±10%, 50/60Hz	30 ~ 50mm	7.5	5.5kW	50L	172kg	1100*5100*1350mm
HD 3696	3650mmAQ	1P, 3P, 220,380,440V ±10%, 50/60Hz	30 ~ 50mm	10	7.5kW	60L	218kg	1100*5100*1350mm

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ACCESSORIES & WELDING SYSTEMS

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ACCESSORIES & WELDING SYSTEMS

2ROLL
4ROLL

Images may differ from the actual product. Product and components may change due to product enhancement.

WIRE FEEDER 2ROLL WIRE FEEDER

Lightweight feeder for ceramic and steel rollers

- For both ceramic and steel rollers
- Convenient and durable
- Suitable for a wide variety of welding sites



Product	Equipment	ROLLER	Wire diameter	Weight
WIRE FEEDER 2ROLL	H, HD, EL series	2roll	1.2 1.4 1.6mm	9kg

WIRE FEEDER 4ROLL WIRE FEEDER

Optimized feedability using 4 rollers

- Minimized wire scratches via smooth pressure lever
- Sturdy frame for additional durability
- Optimized reduction ratio of feed motor



Product	Equipment	ROLLER	Wire diameter	Weight
WIRE FEEDER 4ROLL	H, HD, EL series	4roll	1.2 1.4 1.6mm	11kg

ACCESSORIES

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CO2 torch



Item	Specifications	Picture
① Gas nozzle	350A 16mm, Cu	
	350A 16mm, Cover with chrome	
	350A 19mm, Cu	
	350A 19mm, Cover with chrome	
② Tip	Common Tip, Hybrid Tip	
	0.9 / 1.0 / 1.2 / 1.4 / 1.6mm	
③ Insulator	350A 16mm, Cu	
	350A 16mm	
	350A 19mm, Cu	
	350A 19mm	
④ Gas diffuser	350A 10mm	
	500A 10mm	
⑤ Spring liner	350A BLACK 3.6M	
	350A BLACK 5.1M	
	500A BLUE 3.6M	
	500A BLUE 5.1M	

Other accessories



Single cable



3 line cable



Earth cable



Gas hose



Regulator



Clamp 500, 600

ACCESSORIES

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CO₂ tips for general use

1. General CO ₂ tip			2. CO ₂ hybrid tip			3. CO ₂ automatic tip		
Product	Size	Material	Product	Size	Material	Product	Size	Material
Hexagonal CO ₂ tip	0.8mm	CU	CO ₂ Hybrid TP	0.9mm	Be-Cu	CO ₂ automatic tip	0.8mm	CU
	0.9mm							
	1.0mm							
	1.2mm							
	1.4mm							
	1.6mm							
	1.9mm							
	1.2mm			CuCr				
	1.4mm							
	1.6mm							
1.6mm								

NOZZLE 350A

Product	Size	Material	Product	Size	Material	Product	Size	Material
CO ₂ Cr plating	20mm*73L	Brass Cu	CO ₂ Cr no plating	20mm*73L	Cu	CO ₂ Cr plating	20mm*60L	Brass
							20mm*60L	Cu

NOZZLE 500A

Product	Size	Material	Product	Size	Material	Product	Size	Material
CO ₂ Cr plating	25mm*88L	Brass	CO ₂	25mm*88L	Cu	4,6,8	10mm*68L	Brass
	25mm*86.5L	Cu				350A General	10mm*68L	Cu
	25mm*88L					350A Daewoo	11mm*68L	Brass
						350A General	11mm*68L	Cu
						350A General	10mm*70L	Brass
						500A	10mm*81L	Brass
							11mm*81L	
						500A	12mm*85L	Brass

INSULATOR

Product	Size	Product	Size
350A	20mm*39L	350A	25mm*37L

ACCESSORIES

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TORCH BODY



SPRING LINER



Special tip for improved quality

Zirconium tip



Features

- Hexagonal shape facilitates replacement
- Extended tip life with optimal zirconium content
- Maintain optimal feedability via by using correct wire diameter

ACCESSORIES

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TIG TORCH 350A



TIG TORCH 500A



Ceramic nozzles for TIG



CAP



Collet chuck



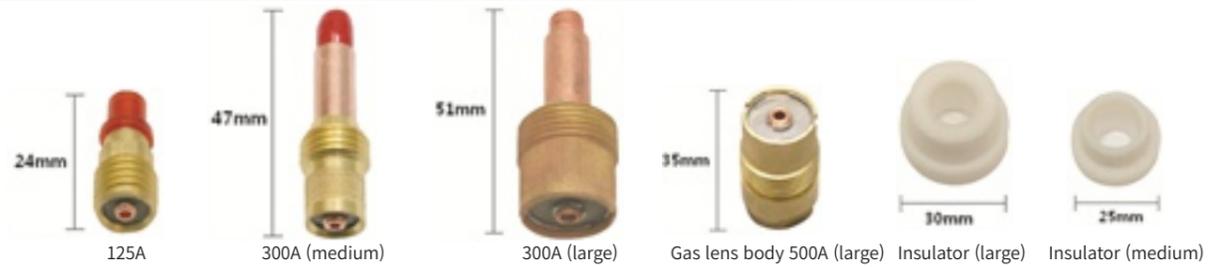
Collet body



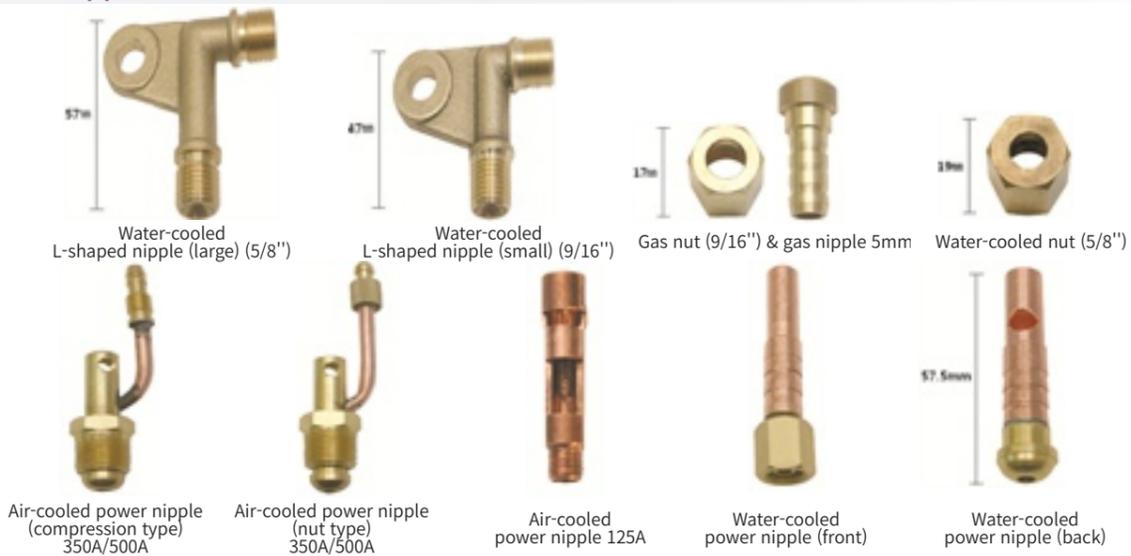
ACCESSORIES

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Gas lens



Gas nipple



ETC.



MASH SEAM WELDING SYSTEM

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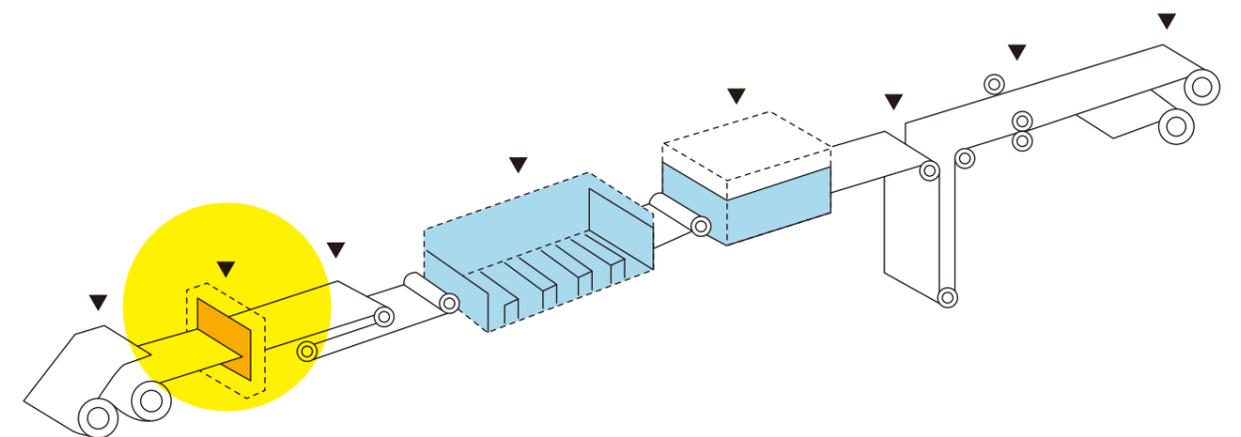
Mash Seam Welding System for Steel Plant

Customized Special Auto Welding System



Mash seam welders are used by steel manufacturers for connecting coil in many different processes, including Continuous Galvanizing Lines (CGLs), Annealing & Coating Lines (ACLs), Multi Coating Lines (MCLs), and Continuous Annealing Lines (CALs). 50 to 100 units are typically used in the iron making process. The acid treatment line (CPL) below is a schematic diagram as an example.

Cold rolled steel sheet process



After the payoff reel in the CPL (Continuous Pickling Line), a welder is used to connect coil to coil. The seam welder is located in the yellow circle above (acid treatment line).

GANTRY WELDING SYSTEM

Images may differ from the actual product. Product and components may change due to product enhancement.

Gantry welding system for railway car assembly

Design expertise for railway car assembly



GANTRY WELDING MACHINE FOR RAILWAY CAR ASSEMBLY



HYUNDAI WELDING





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