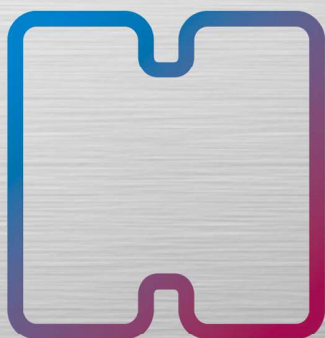


Your **BEST** Welding Partner!

Vision 2020

World No.1 Brand in Welding



WELDING EQUIPMENT

PRODUCTS GUIDE



HYUNDAI
WELDING

Digital control welding machine

Established a control that cannot be realized by existing analog-type welding machines

Conveniences of digital welding machine

- ▶ Modes can be easily changed when shipping and in welding sites, as all sequences are processed digitally

Stable arc output

- ▶ Excellent arc stability with a stable output even during change of input voltage by 10%
- ▶ Minimized the change of output voltage
- ▶ Excellent weldability at different range, from low to high current, due to automatically controlled slowdown speed based on the diameter of wire

Minimized the standby power

- ▶ Minimized the standby power by adopting a power saving circuit that is automatically activated according to the operation of switch
- ▶ Excellent durability & maintainability
- ▶ Secured stability by blocking output during over-current or overload
- ▶ Minimized the failure rate by adopting a PCB damage prevention circuit even during short circuit of control cable
- ▶ Failed parts can be conveniently repaired as they are easily recognized by the installed LED lamps in control panel and PCB



Recommended welding consumables(HYUNDAI)

- ▶ Solid Wire SM-70, SM-70G, SM-70S, etc
- ▶ Flux Cored Wire SF-71, SF-71LF, SF-71LH, etc

| MODEL | | 350S ⁺ | 500S ⁺ | 500M ⁺ | 600S ⁺ | 600M ⁺ | 800S ⁺ | 1000S ⁺ |
|----------------------------|-----|--------------------------|-------------------|--|-----------------------|--|-----------------------|--|
| TYPE | | CO ₂ / MAG | | CO ₂ / MAG / GOU ⁺ | CO ₂ / MAG | CO ₂ / MAG / GOU ⁺ | CO ₂ / MAG | CO ₂ / MAG / GOU ⁺ |
| RATED POWER | kVA | 18 | 30 | | 40 | | 56 | 77 |
| INPUT VOLTAGE | V | 3P 220V, 380V, 440V ±10% | | | | | | |
| FREQUENCY | Hz | 50 / 60 | | | | | | |
| RATED OUTPUT CURRENT | A | 350 | 500 | | 600 | | 800 | 1000 |
| RATED OUTPUT VOLTAGE | V | 36 | 42 | | 50 | | 50 | 50 |
| RATED OUTPUT CURRENT RANGE | A | 40~350 | 40~500 | | 60~600 | | 150~800 | 250~1000 |
| RATED OUTPUT VOLTAGE RANGE | V | 10~36 | 15~42 | | 15~50 | | 15~50 | 12~50 |
| MAX. OPEN CIRCUIT VOLTAGE | V | 60 | 70 | | 80 | | 80 | 77 |
| DUTY CYCLE | % | 60 | 60 | | 100 | | 70 | 100 |
| WEIGHT | kg | 130 | 203 | | 220 | | 250 | 380 |
| DIMENSION (WxDxH) | mm | 420x670x785 | 480x695x850 | | 490x728x880 | | 530x728x980 | 620x830x1140 |

* Specification of some models can be subject to change for the improvement of product's performance and quality.

AC/DC inverter pulse TIG welding machine for aluminum and nonferrous metal plates

Excellent welding for nonferrous metal plates and aluminum due to outstanding low-speed and high speed pulse functions

Excellent low-speed and high-speed pulse functions

- ▶ Thin plates, different materials, and parent metals with different thicknesses, can be welded simply by selecting a pulse
- ▶ High-speed pulse (10~50Hz) ▶ Low-speed pulse (10~25Hz)

Excellent output and durability by adopting Full Bridge method (Applied to 200A or over)

- ▶ Excellent durability and high output device due to small voltage and stress imposed to the switching element, compared to Half Bridge method

Diverse welding materials with a single welding machine

- ▶ AC/DC TIG, AC/DC MMA, AC/Pulse TIG with 1 welding machine, based on BETA AP

Adopted diverse arc start

- ▶ High-frequency start or start scratch method

Various built-in protective functions

- ▶ Improved the durability and stability by adopting diverse built-in protective functions such as low input voltage and single phase detection of overvoltage



Recommended welding consumables(HYUNDAI)

- ▶ Stainless ST-308, ST-308L, ST-309, ST-309L, etc

| MODEL | | | BETA 200D | BETA 350D | BETA 350DP | BETA 500DP | BETA 350AP | BETA 500AP |
|----------------------------|-------------|-----|-------------|--------------------------|-------------------------|-------------|--------------------------------------|-------------|
| TYPE | | | DC TIG/MMA | | DC TIG/DC PULSE TIG/MMA | | DC TIG/DC PULSE TIG/AC PULSE TIG/MMA | |
| RATED POWER | TIG | kVA | 8 | 11 | 11 | 17.5 | 11 | 17.5 |
| | MMA | kVA | 7 | 11 | 11 | 14.5 | 11 | 14.5 |
| INPUT VOLTAGE | | V | 1P 220V | 1P, 3P 220/380/440V ±10% | | | | |
| FREQUENCY | | Hz | 50 / 60 | | | | | |
| RATED OUTPUT CURRENT | TIG | A | 200 | 350 | 350 | 500 | 350 | 500 |
| | MMA | A | 140 | 240 | 240 | 300 | 200 | 300 |
| RATED OUTPUT VOLTAGE | | V | 18 | 24 | 24 | 30 | 24 | 30 |
| RATED OUTPUT | TIG | A | 20~200 | 10~350 | 10~350 | 10~500 | 10~350 | 10~500 |
| CURRENT RANGE | MMA | A | 20~140 | 10~240 | 10~240 | 15~300 | 10~200 | 15~300 |
| RATED OUTPUT VOLTAGE RANGE | | V | 72 | 75 | 75 | 90 | 70 | |
| DUTY CYCLE | | % | 60 | | | | | |
| START CURRENT | | A | — | — | 10~350 | 10~500 | 10~350 | 10~500 |
| CRATER CURRENT | | A | — | — | 10~350 | 10~500 | 10~350 | 10~500 |
| UPSLOPE TIME | | sec | — | — | — | 0.5~5 | | |
| DOWNSLOPE TIME | | sec | — | — | 0.1~5 | | | |
| LATER GAS TIME | | sec | 0~10 | | | 0.1~25 | | |
| PULSE | LOW PULSE | Hz | — | — | 0.1~25 | | | |
| | HIGH PULSE | Hz | — | — | 0.5~400 | 10~500 | | |
| | PULSE WIDTH | % | — | — | 15~85 | | | |
| CREANING WIDTH | | % | — | — | — | — | 20~45 | |
| WEIGHT | | kg | 11 | 22.5 | 25 | 60 | 65 | 79 |
| DIMENSION (WxDxH) | | mm | 180×400×220 | 260×510×465 | 260×510×465 | 390×520×620 | 390×520×620 | 410×600×740 |

* Specification of some models can be subject to change for the improvement of product's performance and quality.

DIGITAL INVERTER CO₂ / MAG WELDING MACHINE

H600M



Digital control inverter welder!

Enhance durability

Built-in protection circuit against cable short, IGBT overcurrent and abnormal operation prevents breakage of semiconductor device and control board to enhance durability.

Electronic reactor function and current waveform control

Wide range of welding from low current to high current is possible with optimal control of wire diameter and current setting.

With the built-in electronic reactor circuit, stable bead formation and penetration can be controlled even if the cable length between the welding machine and feeder is changed.

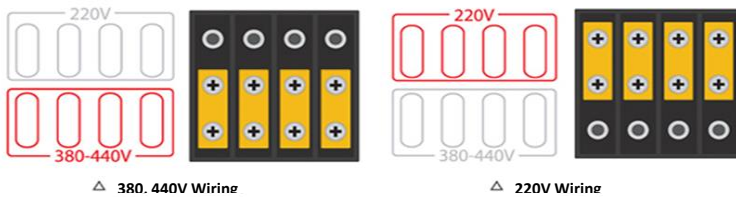
Start current control

Optimize start current control by wire size enables good start

The shape of the bead can be changed by adjusting the electric reactor VR of the front panel

Input voltage selection

By adjusting Input Voltage Selection on the Rear Panel terminal block, the input voltage can be selected from 220V / 380V / 440V



Recommended Welding Consumables(HYUNDAI)

- > Solid Wire SM-70, SM-70G, SM-70S, etc.
- > Flux Cored Wire SF-71, SF-71LF, SF-71LH, etc.

| MODEL | | 350 | 600 |
|----------------------------|-----|---------------------------------|------------------------------|
| TYPE | | CO ₂ /MAG | CO ₂ /MAG/GOUGING |
| RATED POWER | kVA | 19 | 37 |
| INPUT VOLTAGE | V | 220V, 380V, 440V ±10%, 3P, 60Hz | |
| FREQUENCY | Hz | 50 / 60 | |
| RATED OUTPUT CURRENT | A | 350 | 600 |
| RATED OUTPUT VOLTAGE | V | 36 | 50 |
| RATED OUTPUT CURRENT RANGE | A | 60~350 | 80~600 |
| RATED OUTPUT VOLTAGE RANGE | V | 12~36 | 12~50 |
| MAX. OPEN CIRCUIT VOLTAGE | V | 84 | 86 |
| DUTY CYCLE | % | 60% | |
| WEIGHT | kg | 55 | 82 |
| DIMENSION (WxDxH) | mm | 370x530x660 | 430x685x785 |

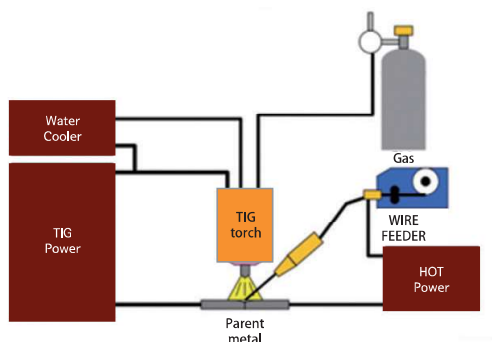
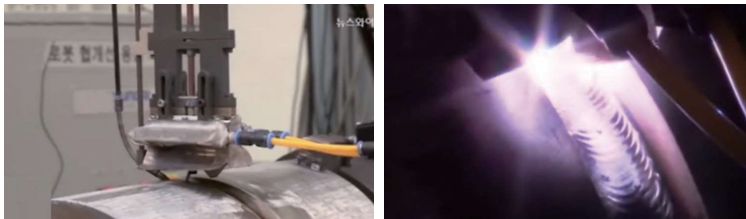
* Specification of some models can be subjected to change for the improvement of product's performance and quality

The system for increasing the deposition amount, and improving the bead quality

Improved the productivity and secured quality in diverse areas such as TIG welding, Tandem EGW, 3Pole MAG welding

High-efficiency inverter type using IGBT

- ▶ Stable output through a quick response to the changes of input voltage and load
- ▶ By supplying additional wires to the arc, while increasing the temperature to 300~1000°C, materials can be melted faster. In addition, stable welding is achievable due to the increased stability of melting rate on the bead surface



| MODEL | | MHW-200DT | MHW-200DM |
|----------------------|----|------------------------|-----------|
| RATED OUTPUT CURRENT | A | 25~150 | 30~200 |
| RATED OUTPUT VOLTAGE | V | 1/3 P 220 / 380 / 440V | |
| DUTY CYCLE | % | 100 | |
| POWER CONTROL | | IGBT Inv.(20kHz) | |
| DIMENSION (W×D×H) | mm | 280×500×560 | |

* Specification of some models can be subject to change for the improvement of product's performance and quality.

Moving Core AC SAW welding machine applied with an electric Actuator

Power factor improvement

Excellent welding efficiency

Convenient connection method

Excellent durability & easy maintenance



Recommended welding consumables(HYUNDAI)

► SAW S-707 × L-8, S-777MX × H14, etc

| MODEL | | HERA 1500 |
|----------------------------|-----|----------------------|
| TYPE | | SAW |
| RATED POWER | kVA | 92 |
| INPUT VOLTAGE | V | 1P 220V / 440V, 380V |
| FREQUENCY | Hz | 50 / 60 |
| RATED OUTPUT CURRENT | A | 1500 |
| RATED OUTPUT VOLTAGE | V | 44 |
| RATED OUTPUT CURRENT RANGE | A | 500~1500 |
| RATED OUTPUT VOLTAGE RANGE | V | 90 |
| MAX. OPEN CIRCUIT VOLTAGE | V | 90 |
| DUTY CYCLE | % | 80 |
| WEIGHT | kg | 620 |
| DIMENSION (WxDxH) | mm | 760x1180x1440 |

* Possible to be custom-made with 1000A

DC SAW welding machine with the characteristic of digital CC/CV

Digital sequence control

Selection of diverse weldabilities
(Constant current / constant voltage)

PCB protective circuit is activated when
the control cable is damaged by the fire

Minimized the standby power

Excellent durability & maintainability



Recommended welding consumables(HYUNDAI)

► SAW S-707 × L-8, S-777MX × H14, etc

| MODEL | | ZEUS 1000 | ZEUS 1500 | ZEUS 2000 |
|----------------------------|-----|---------------------|---------------|---------------|
| TYPE | | SAW | | |
| RATED POWER | kVA | 80 | 120 | 160 |
| INPUT VOLTAGE | V | 3P 220 / 380 / 440V | | |
| FREQUENCY | Hz | 50/60 | | |
| RATED OUTPUT CURRENT | A | 1000 | 1500 | 2000 |
| RATED OUTPUT VOLTAGE | V | 48 | 52 | 60 |
| RATED OUTPUT CURRENT RANGE | A | 300~1000 | 300~1500 | 300~2000 |
| RATED OUTPUT VOLTAGE RANGE | V | 28~48 | 28~52 | 28~60 |
| MAX. OPEN CIRCUIT VOLTAGE | V | 72 | 75 | 82 |
| DUTY CYCLE | % | 80 | | |
| WEIGHT | kg | 415 | 700 | 720 |
| DIMENSION (WxDxH) | mm | 750x1100x1150 | 780x1135x1490 | 800x1050x1400 |

* Specification of some models can be subject to change for the improvement of product's performance and quality.

Full digital inverter DC, AC/DC SAW welding machine

SAW welding system controlling the weld penetration and deposition amounts, and AC/DC output with one welding machine

Able to control the weld penetration/deposition amounts in the same welding condition (Polarity ratio adjustment)

- ▶ Maximized the deposition amount of wire by controlling the same energy per cycle when doing AC welding through full digital control

Both AC/DC output & CC/CV control

- ▶ AC/DC output and CC/CV control with one welding machine

Stable output even when the input voltage is changed

- ▶ Output value is highly stable even when the input voltage is changed

Lightened the weight by applying an inverter

- ▶ Reduced weight by 50% compared to the existing analog welding machines



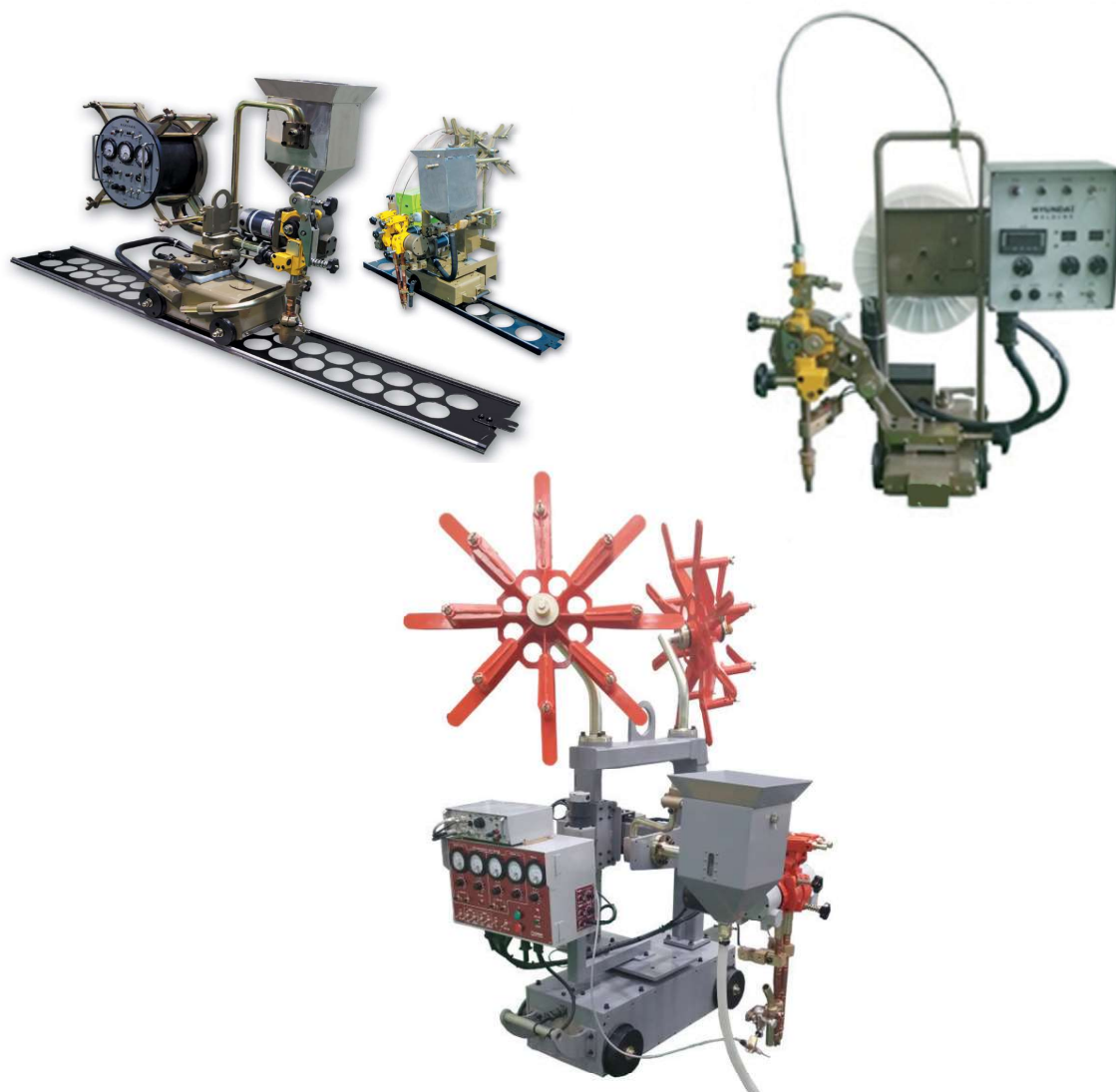
Recommended welding consumables(HYUNDAI)

- ▶ SAW S-707 × L-8, S-777MX × H14, etc

| MODEL | | NEOSAW AC/DC 700S | NEOSAW DC 1200S | NEOSAW AC/DC 1200S | NEOSAW AC/DC 1500S | NEOSAW DC 1500S |
|----------------------------|-----|-------------------------------|---------------------|---------------------|--------------------|-----------------|
| TYPE | | SAW | | | | |
| INPUT VOLTAGE | V | 3P 380V, 440V ±10%, 50 / 60Hz | | | | |
| RATED POWER | kVA | 40 | 66 | 66 | 90 | 90 |
| MAX. OPEN CIRCUIT VOLTAGE | V | 82 | 90 | 90 | 110 | 110 |
| RATED OUTPUT CURRENT | A | 700 | 1200 | 1200 | 1500 | 1500 |
| RATED OUTPUT VOLTAGE | V | 50 | 50 | 50 | 50 | 50 |
| RATED OUTPUT CURRENT RANGE | A | 200~700 | 400~1200 | 400~1200 | 400~1500 | 400~1500 |
| RATED OUTPUT VOLTAGE RANGE | V | 16~50 | 22~50 | 22~50 | 26~50 | 26~50 |
| DUTY CYCLE | % | 100 | 80 | 80 | 100 | 100 |
| CONTROL METHOD | | PWM INVERTER CONTROL | | | | |
| CONTROL MODE | | CV, CC | CV, CC | CV, CC | CV, CC | CV, CC |
| OUTPUT FREQUENCY | Hz | 10~100 | | 10~100 | 10~100 | 10~100 |
| WEIGHT | kg | 160 | 320 | 350 | 380 | 380 |
| DIMENSION (WxDxH) | mm | 500×730×860 | 550×965×1460 (1520) | 550×965×1460 (1520) | 600×1000×1290 | 600×1000×1290 |

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SUBMERGED CARRIAGE



| PART | | HD SW-41(AC or DC) | HD SA-24 | HD WC-24 | HD SW-101D |
|-------------------------|------------------|--------------------|----------------------|----------------|----------------------|
| TYPE | | Single | Tandem | Wide | Single |
| WIRE FEED RATE | Single(Standard) | ~ 2.1 | | | ~ 2.1 |
| | Double(option) | ~ 4.2 | | | |
| | Triple(option) | ~ 6.2 | | | |
| WIRE DIA | mm | 3.2, 4.0, 4.8, 6.4 | 4.0, 4.8, 6.4 | | 1.6, 2.0, 2.4 |
| WIRE FEED ROLL | mm | Standard | Rough knurl, 4.8~6.4 | | Knurl, 1.6, 2.0, 2.4 |
| INPUT VOLTAGE | V | AC 110 | AC 110 | AC 110 | AC 110 |
| FEED RATE CONTROL | | SCR | | INVERTER | SCR |
| NOZZLE ADJUSTMENT RANGE | Vertical | 50 | 70 | | 30 |
| | Horizontal | 50 | 50 | | 30 |
| WIRE REEL WEIGHT | kg | 25 | | 75 | 15, 20 |
| CURRENT, VOLTAGE METER | | ANALOG | | | |
| HOPPER VOLUME | Liter | 6 | 12 | 12 | 5 |
| SIZE (W×D×H) | mm | 700×900×850 | 1300×1400×1900 | 1600×1500×2100 | 450×650×850 |
| WEIGHT | kg | 57 | 280 | 600 | 25 |

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