



## STEP CONTROLLING MIG / MAG WELDING MACHINE

# EXCEL 401

### DESIGNED FOR

- For medium-duty industrial welding workshop
- Specially designed for European professionals with step-controlling system
- 3 phase / Aluminum wire feeder 4 Rolls (XL4)
- Euro / Binzel connection torch
- Easy to set burn back & motor slope Up/Down



# SUPER EXCEL 511

### DESIGNED FOR

- Specially designed for European professionals with step-controlling system
- Microprocessor-controlled motor card for MIG/MAG & Brazing welding
- 3 phase/Aluminum wire feeder 4 Rolls (XLS4)
- Galvanised metal, stainless steel and Aluminum plating
- Automatic(synergic) or manual mode by accumulated useful welding parameters
- Euro/ Binzel connection torch



MODEL		EXCEL 401	EXCEL 511
SUPPLY VOLTAGE	(3 ph)	230/400V 50/60Hz	230/400V 50/60Hz
ABSORBED POWER	60% KVA	19	25
NO-LOAD VOLTAGE	V	17~50	16~48
CURRENT RANGE	A	30~400	30~500
CONVENTIONAL CURRENT	A	60% 400 100% 310	60% 500 100% 420
ADJUSTMENT POSITIONS	N°	24	36
STEEL WELDING WIRE	mm	0.6~1.6	0.8~2
STAINLESS STEEL WELDING WIRE	mm	0.8~1.2	0.8~1.6
ALUMINUM WELDING WIRE	mm	0.8~1.6	0.8~2
BRAZING WIRE	mm		0.8~1.2
INSULATION CLASS	-	H	
PROTECTION DEGREE	-	IP23	
SIZE	mm(LxWxH)	1000x555x1340	
CARTON SIZE	mm(LxWxH)	1120x530x845 635x305x490	
WIRE FEEDER		XL4	XLS4
WEIGHT	kg	168	215

► In accordance with HYUNDAI WELDING's policy to make continuing improvements, design and/or specifications are subject to change without notice or any obligation on the part of manufacturer.



# THYRISTOR CO<sub>2</sub> DIGITAL WELDING MACHINE

## HD AUTO Series



The ideal partner for  
heavy-duty work!

**BEST SELLER!**



### SPECIALLY DESIGNED FOR HEAVY-DUTY WORK

- Designed for superior performance in heavy-duty work.
- Developed with the highly advanced welding technology of shipbuilding industry.

### STABLE OUTPUT VOLTAGE

Welding parameters constant even when input voltages change  $\pm 10\%$ .

### CORRESPOND TO VARIOUS CONTROL REQUIREMENTS

Adopted Microprocessor

### EXCELLENT ARC START

- Enhancing work efficiency by improving the arc start characteristics.
- Decreasing spatters to make the welding performance stable.

### CONVENIENT MAINTAINABILITY

Each function implemented on one printed circuit board provides the convenient maintainability.

### IMPROVED IN DURABILITY WITH LESS ANALOG CONTACT POINTS

Minimized the analogue contact points in consideration of optimum circuit design will extend durability.

### CONVENIENCE TO MAKE INTERFACE WITH OTHER WELDING EQUIPMENTS

Ready to standardize in specification considering of durability or safety in case of handling parts of other equipments.

MODEL		HD AUTO				
		400S	500S	500M	600S	600M
TYPE		CO2 /MAG	CO2 /MAG	CO2 /MAG/GOUG'	CO2 /MAG	CO2 /MAG/GOUG'
RATED POWER	KVA	24	30		40	
INPUT VOLTAGE	V	3P, 220, 380, 440 ± 10%				
FREQUENCY	Hz	50 / 60				
RATED OUTPUT CURRENT	A	400	500		600	
RATED OUTPUT VOLTAGE	V	34	42		50	
RATED OUTPUT CURRENT RANGE	A	40~400	40~500		60~600	
RATED OUTPUT VOLTAGE RANGE	V	10~34	15~42		15~50	
MAX. OPEN CIRCUIT VOLTAGE	V	60	70		80	
DUTY CYCLE	%	60	60 / 80 / 100		100	
WEIGHT	kg	130	203		220	
DIMENSION (WxDxH)	mm	420x670x730	460x728x865		490x728x900	

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## INVERTER CO<sub>2</sub> MAG WELDING MACHINE

# FINE ARC Series



### DIGITAL CONTROL OF HIGH SPEED, HIGH PRECISION

Adopted IGBT switching & PWM control

### SAVE AND CALL ONE HUNDRED WELDING CONDITIONS

Welding under best conditions by saving and calling one hundred welding parameters, such as welding voltage, welding current and pre(post) gas flow on front panel.

### EXCELLENT ARC START AND REDUCTION OF SPATTER

Stable feeding by feedback of encoder makes the good conditions of ARC start and reduces spatter.

### WIDE RANGE OF APPLICATIONS

Properly designed for Robotic applications and digital/analogue communication.



MODEL		FINE ARC II	
		350	600
TYPE		CO <sub>2</sub> /MAG	
RATED POWER	KVA	18	38
INPUT VOLTAGE	V	3P, 220, 380, 440 ± 10%	
FREQUENCY	Hz	50 / 60	
RATED OUTPUT CURRENT	A	350	600
RATED OUTPUT VOLTAGE	V	36	50
RATED OUTPUT CURRENT RANGE	A	40~350	60~600
RATED OUTPUT VOLTAGE RANGE	V	14~36	14~50
MAX. OPEN CIRCUIT VOLTAGE	V	62	80
DUTY CYCLE	%	60	100
WEIGHT	kg	37	90
DIMENSION (WxDxH)	mm	300x600x420	395x600x715

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# SATURABLE DC TIG WELDING MACHINE

## ALPHA II 500M



### STABLE DROOPING CHARACTERISTICS

High performance magnet amplifier makes stable drooping characteristics and controls wide range of current

### EXCELLENT ARC START

High frequency arc start generates soft arc start and eliminates tungsten and material contamination

### A VARIETY OF FUNCTIONS

- Various crater selections(on/off, repeat)
- Pre&post gas flow control
- Combined use of TIG/MMA
- Remote control system

### CONVENIENT MAINTENANCE

Less failure and easy maintenance by special sequence configuration

### COMPATIBLE INPUT VOLTAGE OF 220V/330V

Simple terminal switch can be combined with 220V/380V input voltage

### REMOTE CONTROL SYSTEM

Remote control system encourages you to use long distance and automatic control

### Comparison of electrode properties

Remark : Excellent ◎◎◎ / Good◎◎ / Average◎

Electrode Type	Metal Type	Arc Stability	Arc Striking	Durability	Thermal Resistance
Pure Tungsten	Light Alloys	◎◎	◎	◎	◎
Tungsten Thorium	Steels and inox	◎	◎◎◎	◎◎	◎◎
Tungsten Cerium	Steels and inox	◎◎	◎	◎◎	◎◎
Tungsten Lanthanum	All	◎◎	◎◎◎	◎◎◎	◎◎◎

Color code is in accordance to the requirements Din/EN 26848 and printed on the electrode end.

MODEL		ALPHA II 500M
TYPE		TIG / MMA
RATED POWER	KVA	40
INPUT VOLTAGE	V	3P, 220 / 380 / 440 ±10%
FREQUENCY	Hz	50 / 60
RATED OUTPUT CURRENT	A	500
RATED OUTPUT VOLTAGE	V	40
RATED OUTPUT CURRENT RANGE	A	30~500
MAX. OPEN CIRCUIT VOLTAGE	V	80
DUTY CYCLE	%	60
PRE FLOW TIME	sec	0.5~3
AFTER FLOW TIME	sec	1~15
WEIGHT	kg	215
DIMENSION (WxDxH)	mm	480x800x1015

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# INVERTER MIG / THYRISTOR EGW WELDING MACHINE

## HiMIG SERIES

HIGH-SPEED SWITCHING CONTROL MAKES EXCELLENT ARC STABILITY

SUPERIOR ALUMINUM WELDABILITY

OPTIMAL ARC START

EASY TO SET WELDING PARAMETERS



MODEL		HiMIG 600	HiMIG 700
TYPE		MIG	
RATED POWER	KVA	38	44
INPUT VOLTAGE	V	3P, 440 $\pm$ 10%	
FREQUENCY	Hz	50 / 60	
RATED OUTPUT CURRENT	A	600	700
RATED OUTPUT VOLTAGE	V	50	50
RATED OUTPUT CURRENT RANGE	A	100~600	100~700
RATED OUTPUT VOLTAGE RANGE	V	10~50	10~50
MAX. OPEN CIRCUIT VOLTAGE	V	82	82
DUTY CYCLE	%	60	80
WEIGHT	kg	90	96
DIMENSION (WxDxH)	mm	405x650x800	405x650x850

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## HiEGW SERIES

EXCELLENT DUTY CYCLE

STABLE OUTPUT VOLTAGE

SUPERIOR WELDING CHARACTERISTIC FOR HIGH CURRENT

OUTSTANDING DESIGN & COOLING STRUCTURE



MODEL		HiEGW 800	HiEGW 1000
TYPE		EGW / CO <sub>2</sub> (high current)	
RATED POWER	KVA	58	70
INPUT VOLTAGE	V	3P/440 $\pm$ 10%	
FREQUENCY	Hz	50 / 60	
RATED OUTPUT CURRENT	A	800	1000
RATED OUTPUT VOLTAGE	V	50	50
RATED OUTPUT CURRENT RANGE	A	150~800	150~1000
RATED OUTPUT VOLTAGE RANGE	V	12~50	12~50
MAX. OPEN CIRCUIT VOLTAGE	V	80	80
DUTY CYCLE	%	100	100
WEIGHT	kg	350	400
DIMENSION (WxDxH)	mm	610x930x910	

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# INVERTER AIR PLASMA CUTTER

## HyPLA SERIES



### HIGH QUALITY CUTTING

No heat-deformation, precise & clean cutting

### COMPACT SIZE & LIGHT WEIGHT

Ideal for hand-to-weld place, weld-anywhere mobility

### OPTIMIZED TO FA SYSTEM

Easy to set FA system by built in automated terminal

### EXCELLENT CUTTING & NONFERROUS METAL

Al, STS steel, copper, etc.

### MULTIPLE INPUT VOLTAGE

3 or 1 phase

### Cutting Ability

Depth Material	0.1	5	10	15	20	25	30	35	40
Mild Steel	70A			100A			130A		
Stainless Steel									
Aluminum									
Copper									

MODEL		HyPLA			
		70	100	130	150
RATED INPUT POWER	KVA	5	12	23	27
RATED INPUT VOLTAGE	V	220±10%	220/380/440±10%		
FREQUENCY	HZ	50 / 60			
OUTPUT CURRENT RANGE	A	25~70	25~100	25~130	25~150
OUTPUT VOLTAGE	V	100	110	120	130
MAX.OPEN CIRCUIT VOLTAGE	V	315	280@380V INPUT		
DUTY CYCLE	%	60			
WEIGHT	Kg	22	51	55	58
DIMENSION (WxDxH)	mm	250x480x380	365x705x575		
CUTTING ABILITY	mm	<10 (manual)	<20 (manual)	<30 (manual)	<20 (with automation equipment)

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## AC / DC ARC SUBMERGED WELDING MACHINE

# HERA SERIES

IMPROVEMENT OF POWER FACTOR

SUPERIOR DURABILITY

SIMPLE & CONVENIENT MAINTENANCE

OUTSTANDING WELDING EFFICIENCY



# ZEUS SERIES

FREE INPUT VOLTAGE

VARIOUS SELECTION OF WELDABILITY

SUPERIOR DURABILITY

OUTSTANDING WELDING EFFICIENCY



MODEL		HERA 1500A (AC)	ZEUS 1500D (DC)
RATED POWER	KVA	100	128
PHASE		1P	3P
INPUT VOLTAGE	V	220/380/440 ± 10%	
FREQUENCY	Hz	50 / 60	
RATED OUTPUT CURRENT	A	1500	
RATED OUTPUT VOLTAGE	V	44	50
RATED OUTPUT CURRENT RANGE	A	400~1500	
MAX. OPEN CIRCUIT VOLTAGE	V	90	80
DUTY CYCLE	%	100	
WEIGHT	kg	630	700
DIMENSION (WxDxH)	mm	770x1180x1500	780x1210x1270

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# INVERTER DC ARC WELDING MACHINE

## PONY SERIES



SPECIALLY DESIGNED DELUXE MODEL FOR EXPORTATION

ADOPTED LARGE CAPACITY OF I.G.B.T MODULE

FAST START IN CASE OF OFF MODE OF VOLTAGE REDUCTION DEVICE

EASY-TO-CARRY WEIGHT, USER-FRIENDLY DIGITAL DISPLAY & FEATURE



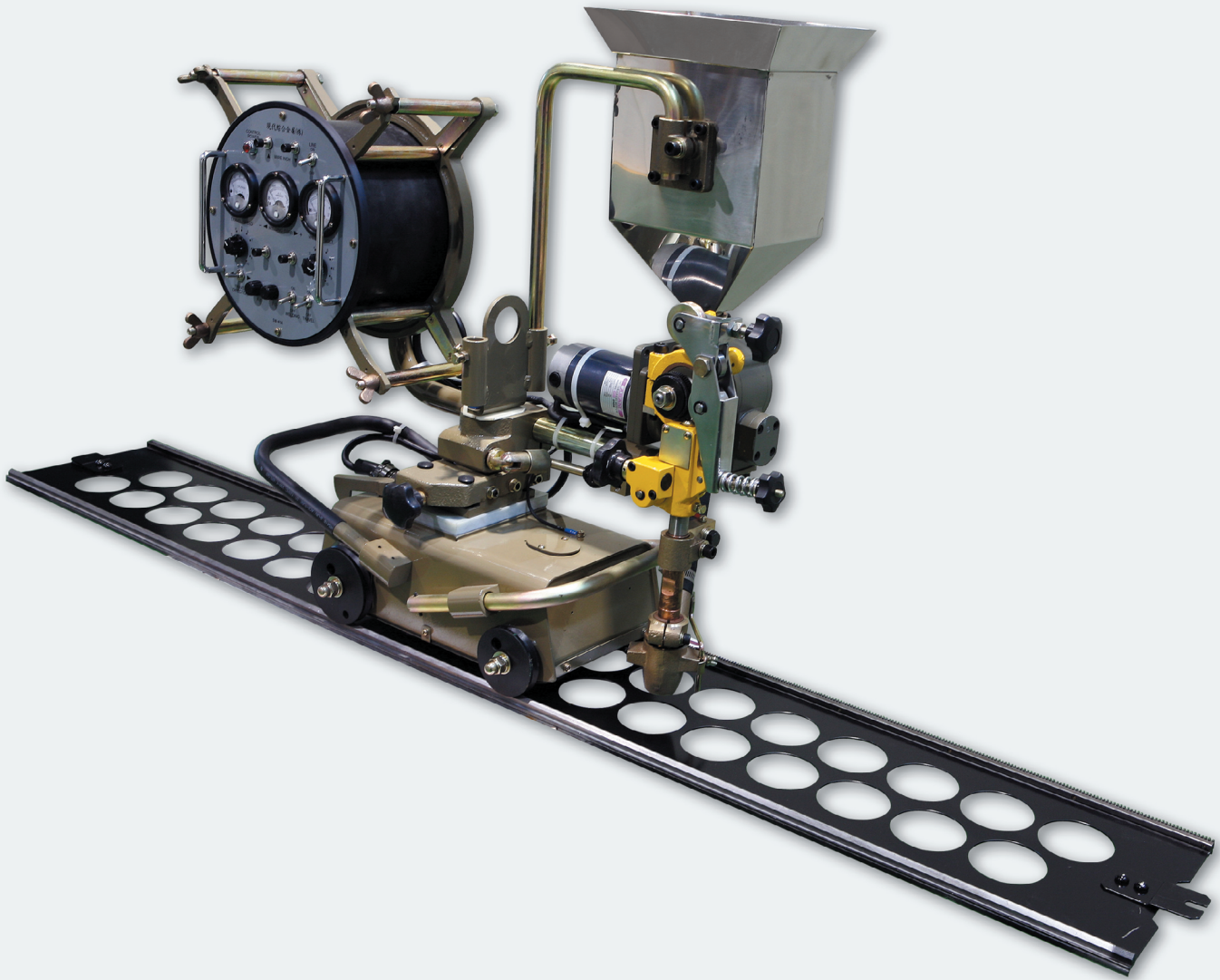
MODEL		PONY2160S	PONY2180S	PONY2200S	PONY2250S	PONY2300S	PONY2200TS	PONY2300TS
RATED INPUT POWER	KVA	4	5	6	8	11	4	8.5
INPUT VOLTAGE	V	220						
FREQUENCY	Hz	50 / 60						
OUTPUT LOAD CURRENT	A	160	180	200	250	300	200	300
OUTPUT LOAD VOLTAGE	V	23	25	25	28	29	17	21
RATED OUTPUT CURRENT RANGE	A	20 ~160	20 ~180	20 ~200	20 ~250	20 ~300	10 ~200	10 ~300
MAXIMUM CURRENT	A	160	180	200	250	300	200	300
DUTY CYCLE	%	40 ~60						
WEIGHT	Kg	8	10	11	15	17	17	21
DIMENSION (W x D x H)	mm	150x425x215	180x425x265	180x425x265	205x475x290	205x475x290	205x480x380	205x480x380

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# AUTO CARRIAGE FOR SUBMERGED ARC WELDING

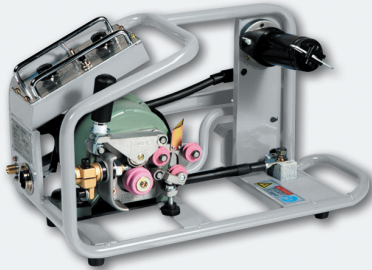


MODEL		HSW-101	HSW-41		HSW-24
AMPERE RANGE	A	500	300 ~ 1500		300 ~ 2000
WIRE DIA.	mm	(1.2), 1.6, 2.0, (2.4)	(3.2), 4.0, 4.8, 6.4		(2.4, 3.2), 4.0, 4.8, 6.4
TRAVEL SPEED	cm/min	10~100	15~500		15~500
WIRE FEEDING CONTROL		Arc voltage control by Thyristor	Arc voltage control by Thyristor		Arc voltage control by Thyristor (100W direct current motor)
WIRE FEEDING SPEED	m/min	6~15	SINGLE	2.1	2.1
			DOUBLE	4.2	
			TRIPLE	6.2	
HOPPER CAPACITY	ℓ	5	6		6
NOZZLE CONTROL RANGE	mm		50 (vertical) 50 (horizontal)		75 (vertical) 50 (horizontal)
WEIGHT	kg	18	49		95
CHARACTERISTICS		Easy to move with light weight Precise tracing even without rail High traction power with 4 wheel drive	Stable balance with proper center of gravity Easy to operate		Powerful wire feedability Suitable for high current welding

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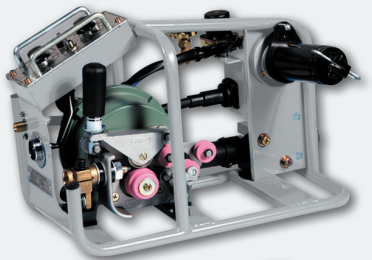


# WIRE FEEDER



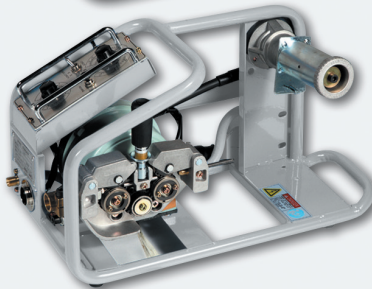
2Roll (standard)

MODEL	HD-D3W2S	HD-F3W2S	HD-A7W2S
ROLLER	2 Roll	2 Roll	2 Roll
ROLLER MATERIAL	Ceramic	Ceramic	Ceramic
WEIGHT	11.5kg	11.5kg	11.5kg
WELDING MACHINE	HD AUTO 350	FINE ARC 350A	HD AUTO 350, 500, 600



2Roll (light weight)

MODEL	HD-D3W2E	HD-A7W2E
ROLLER	2 Roll	2 Roll
ROLLER MATERIAL	Ceramic	Ceramic
WEIGHT	9kg	9kg
WELDING MACHINE	HD AUTO 350	HD AUTO 350, 500, 600



4Roll (standard / light weight)

MODEL	HD-A7W2E	HD-A7W2E
ROLLER	4 Roll	4 Roll
ROLLER MATERIAL	Steel	Steel
WEIGHT	11.5kg	10kg
WELDING MACHINE	HD AUTO 350, 500, 600	HD AUTO 350, 500, 600

# CO<sub>2</sub> TORCH, CABLE



CO<sub>2</sub> TORCH



3 LINE CABLE



SINGLE CABLE

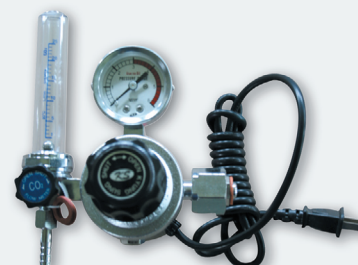
# ACCESSORIES



WORKPIECE CABLE



GAS HOSE



REGULATOR