

HISTORY

- 2000-2005 CEO Koh, Jeongcheal , awarded with a Plaque of Appreciation by the Human Resources Development of Korea
Acquires ISO 9001 Certification (Certificate Authority: UKAS)
- 2006-2010 Selected as a Technology Innovation-assigned Business by the Small and Medium Business Administration
Selected High Potential Export Company
Joined as a member of KSII(Korea Scientific Instruments Industry Cooperative)
- 2011-2015 Acquires the Certification for Technological Innovation-Type Business (INNO-Biz) (Korean Intellectual Property Office)
Venture Company (recertification)
- 2016 Obtaining ISO 14001 certification
HYWEL-350A, Obtained Certificate of Excellent Product issued by Korea Procurement Service
HYWEL-350A, Obtained Of K-Mark(Capacity) Excellent Product
- 2017 HYWEL-500A, Obtained Of K-Mark(Capacity) Excellent Product
HYWEL-500A, Obtained Certificate of Excellent Product issued by Korea Public Procurement Service

2017 Total Technology Solution

INVERTER WELDING MACHINE



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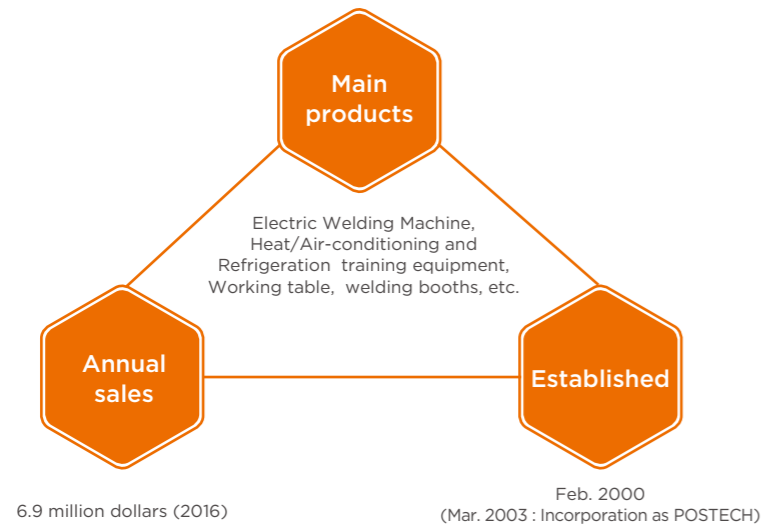
POSTECH IS ?

Since its establishment POSTECH Co., Ltd. has constantly given its best and made careful strategic investments to ensure the development of leading-edge welding machines, Air-conditioning & Refrigeration Trainers and related equipments.

Through its efforts, the company evolved from a mere manufacturer of welding machines into a corporation that specializes intraining equipments of industrial facilities. The company further works hard to make definite advancements in the industrial equipments and Technical facilities.

We also continue to improve the quality of our welding equipments, as we believe that we play an important role in maintaining the soundness of vital industries such as ship-building, heavy equipment, electronics, automobiles, construction, and schools and research institutes as well.

Furthermore, we aim at producing the advanced technology products through our ceaseless systematic effort and development with research.



BUSINESS FIELD

Educational Equipment Business

Industrial Equipment, Heat and Refrigeration Trainers,
New Renewable Energy
Automobile Parts, IT/ Software, Robot System and Automation

Manufactured Items

Electrical Inverter Welding Machines, Heat and Refrigeration

Educational Trainers

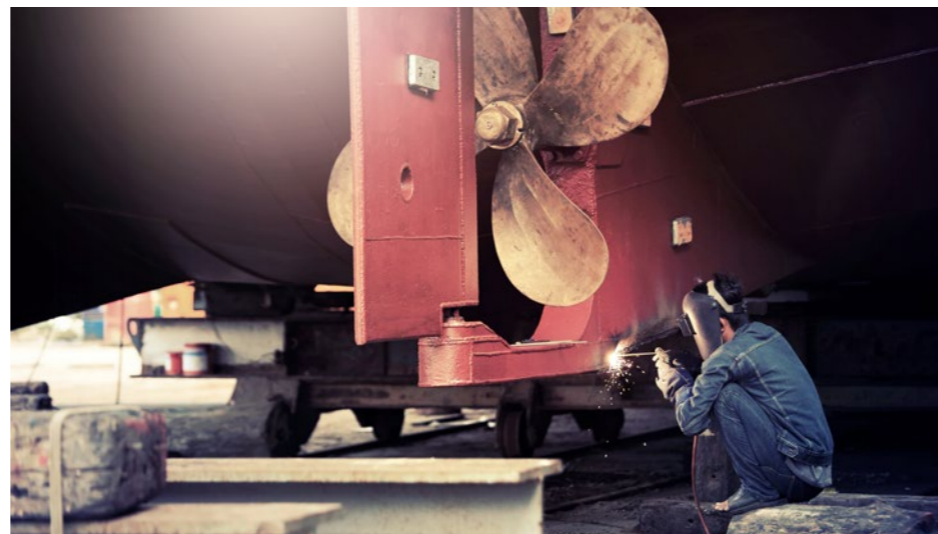
Equipments for Educational Training, Hydraulic bending tester

Trade (Export & Import)

Intermediary Trade Service, Trade(Export & Import)
Overseas Vocational Training Center Consulting Services

Other Businesses

Educational Training Curriculum Consulting Services



PRODUCT CATALOG

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Hybrid Welding Machine HYWEL-250A,350A,500A

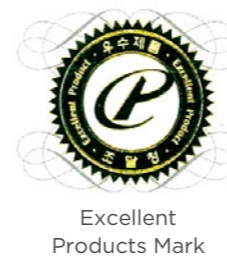


Three in One (Three welding in One welder), saving Space, Cost, Time, and Labor line
By placing each welding torch to the back of the welder, it provides relaxed working environment in the welding booth and energy saving for the user and electricity cost saving.

SPECIFICATION

SEPARATION	DC ARC 250A/350A/500A			DC TIG 250A/350A/500A			AC TIG 250A/350A/500A			CO ₂ MAG 250A/350A/500A			CO ₂ MIG 250A/350A/500A		
Rated Input Voltage(V)	1Ø 220V / 3Ø 380V														
Rated Frequency(HZ)	50/60Hz														
No-Load Voltage(DCV)	220V 68V	380V 60V 220V 68V	380V 68V 220V 78V												
Rated Duty Cycle (%)	60	60	60												
Rated Output Current(DCA)	230	300	330	250	350	500	250	320	450	250	350	500		350	500
Rated Input(kVA)	9.3	11	13	9.3	11.5	18				9.3	14.5	23.5		14.5	23.5
Rated Input(kW)	7.8	9.4	11	7.8	10.3	15				7.8	11.2	19.5		11.2	19.5
Rated Load Voltage(DCA)	32	32	33.5			30				14-32	14-32	15-39		14-32	15-39
Output Current per Rated Duty Cycle(A)	230	232	255			387				250	271	387		271	387
Load Voltage Rated Duty Cycle (V)	29	29	30			25.5				25.8	25.8	33.5		25.8	33.5
Pulse Width Adjustment Range (%)						15 - 85									
After-Flowtime (sec)						0.5 - 25									
Initial Current Range (A)				5-250	5-350	10-500	5-250	5-320	10-450						
Output current Range(Crater Current)(A)	20-200	50-300	50-330	5-250	5-350	10-500	5-250	10-320	10-450	4-250	40-350	50-500		40-350	50-500
Output Voltage Range(A)											14-35	15-39		14-35	15-39

AT KOREA SKILLS COMPETITION 2013-2016(48-51th)
OFFICIALLY DESIGNATED WELDING MACHINE



K-Mark Certificate
(PB12015-243)



AC TIG/DC TIG	CO ₂ MAG/MIG	MMA STICK

SAVED 4 FACTORS

Time

Welding event overtime at
47th : 8hours(used 3 machines)
48-51th : on time- less than 2hours
(used HYWEL-350A)

Cost

Machines used at
KOREA SKILLS COMPETITION
47th : used 3 machines
(ARC/TIG/CO₂)
48-51th : used HYWEL-350A

Space

3 booths necessary (past) »
1 booth enough (HYWEL-350A)

Line

Labor line Saved as using
1 machine (Three welding machines
abstracted as one machine)



POSWEL-AD Series
Inverter AC/DC TIG Arc WELDING MACHINE

FEATURES Digital Display able to be checked welding current at real time. Perfect safety system protects operator and welding machine. All kinds of welding is possible due to new function, this can be adjusted bead width and welding control when Aluminum welding. Made by an International certified manufacturer such as ISO 9001& ISO 14001 quality management system. Waveform control is available by inverter method. Built in trouble finding program High efficient welding at all kind of Metal materials; stainless steel, copper, aluminum, brass, cast iron, nickel, mild steel, titanium steel etc. It is adjustable for automatic welding due to utilizing of a welding operation, crater signal, and detected current signals.

SPECIFICATION	MODEL	POSWEL - 350AD	POSWEL- 500AD
	Rated output current(A)	350	500
	Rated input TIG weldingManual arc welding(kVA)	1-3Ø 220/380V 11.8(9.4kW)13.5(10.8kW)	1-3Ø 220/380V 17.7(14.16kW)19(15.2kW)
	Rated duty cycle(%) (10minute duty cycle)	85	100
	Welding current adjustment rage TIG welding(A)Manual arc welding(A)	5 - 350 5 - 290	5 - 500 5 - 400
	Rated load voltage(V)	32	36
	Low pulse frequency(Hz)	0.5-15	0.5-15
	Middle pulse frequency(Hz)	15-350	15-500
	pulse width adjustment range(%)	15-85	15-85
	After-flow time(Sec)	0.1-25	0.1-25
	External dimentions(mm)(W x D x H)	380 x 540 x 600	410 x 620 x 760
	Weight(kg)	55 KG	70 KG



POSWEL-PT Series
Inverter DC PULSE TIG Arc WELDING MACHINE

FEATURES Special features: crater, down slope, pulse TIG welding, Self-Diagnosis function, Gas check, after flow leading. Adjustable for Varied materials : Nickel Alloy, titanium, low alloy, stainless steel, copper alloyed steel, cast iron steel, mild steel. High quality and High speed inverter controlling which makes superior welding result and constant current with efficient cost. DC MMA welding is available and multi functional circuit. High duty cycle and durability and well done at low pulse and high pulse welding. ABS materials of case adopted avoids corrosion and good visual shape. constant voltage and drooping characteristic makes constant arc creation and stable arc without short at arc wave movement.

SPECIFICATION	MODEL	POSWEL-350PT	POSWEL-500PT
	Rated output current(A)	350	500
	Rated inputTIG weldingManual arc welding(kVA)	1-3Ø 220/380V 11.3(9.4kW)8.4(10.8kW)	1-3Ø 220/380V 19.5(14.16kW)15.5(15.2kW)
	Rated output TIG welding Manual arc welding(A)	350A 200A	500A 300A
	Rated duty cycle(%) (10minute duty cycle)	60	60
	No-load voltage(V)	67	67
	Pulse frequency(Hz)	0.5-50	0.5-50
	pulse width adjustment range(%)	15-85	15-85
	After-flow time(Sec)	0.1-25	0.1-25
	External dimentions(mm)(W x D x H)	380 x 540 x 600	410 x 620 x 760
	Weight(kg)	55 KG	70 KG



POSWEL-C Series
Inverter CO₂ MAG WELDING MACHINE

FEATURES As inverter type welding current & voltage are displayed digitally and waveform control is available by inverter. Embedded protecting circuit and self-diagnosis functions protect from detected abnormal vector. Low noise & stable current. Performing rapid welding by the low welding current under the high input current. KOREA GOVERNMENT PROCUREMENT PRODUCTS and ISO certified products. Stable are start and constant current. The best condition is in low welding current, excellent duty circle & Minimized spatter. Low spatters and dross by welding control signal and control power. Micom controlling embedded CPU, realizes digital controlling and digital display makes easy detecting welding current & voltage.

SPECIFICATION	MODEL	POSWEL-350C	POSWEL-500C
Rated Input Voltage		1-3Ø 220/380V	1-3Ø 220/380V
Rated Input Power		17.5kVA (14kW)	29 kVA (23.2kW)
Rated Output Current		350A	500A
Rated Load Voltage		14 -35V	15 - 45V
Output range Welding Crater		40 -350A	40 -500A
Output voltage range Welding Crater		14 -35V	15 -45V
Duty Cycle		60 %	85 %
Dimensions(W*D*H)		380x540x600 mm	400x620x760 mm
Weight		50 kg	60 kg



POSWEL-P SERIES
Inverter Air Plasma Cutting M/C

FEATURES By power-saving design, available to use house hold voltage Self-diagnosis function built-in for protective circuit & abnormal condition. High efficient duty cycle, excellent cutting power, Less used consumables like torch, electrodes, nozzle and etc. Attached auto pilot can combine with Automatic cutting unit. Various protective circuit and self-diagnosis function against abnormal conditions Clean cutting of Stainless, Aluminum, Fe, Gu, Brass, etc. High Duty cycle and high speed cutting at even thick plates with good shaped cutting edge. High efficient capability even Automatic Cutting System such as pipe cutting and steel plate Beveling ABS materials of case adopted avoids corrosion and good visual shape.

SPECIFICATION	MODEL	POSWEL-80P	POSWEL-130P	POSWEL-150P
Rated output current(A)		80	130	150
Rated input voltage(V)		220/380V	220/380V	220/380V
Rated input Phase(Ø)		1-3Ø	1-3Ø	1-3Ø
Rated input Power(kVA)		14(11.2kW)	24(19.2kW)	24(19.2kW)
Rated load voltage(V)		135	140	140
Rated duty cycle(%) (10minute duty cycle)		50	80	80
Maximum cutting capacity(mm)		18	35	35
Cooling system		AIR Cooled		
External dimensions(mm) (width * depth * height)		270x 430x 520	380x 540x 600	410x 620 x 760
Weight(kg)		24 kg	60 kg	62 kg

CUSTOMIZED FOR PRACTICE TRAINING



WELPOS-353P/503P

DC Hybrid Welding machine (NCS customized)

- FEATURES**
- Enables various welding with One welder
 - The effect of space saving
 - Each function can be switched within 10 seconds
 - Each trans is able to use each function even if one function fails.

SPECIFICATION

SEPARATION	DC ARC 353P/503P		DC TIG 353P/503P		CO ₂ 353P/503P	
Rated Input Voltage (V)	AC 220V 1P 50 / 60Hz					
Rated Output Current (DCA)	180	230	250	350	250	350
Rated Input (kVA)	6(4.9)	11(9.4)	6(5)	11.5(10.3)	8(6.7)	14.5(11.2)
No-Load Voltage (DCV)	68 (AC 220V only)					
Rated Load Voltage (DCV)	27	32	20	30	27	14-32
Rated Duty Cycle (%)	60		60		60	
Output Current(A) At Rated Duty Cycle에 100%	140	232	195	387	195	271
RatedDuty Cycle에 따른 100% OutputVoltage(V)	25.5	29	18	25.5	24	25.8
After-Flowtime(sec)	-		0.5 - 25		-	
Initial Current Range(A)	-		5 - 250		-	
Output Current Range(A) (Crater Current Range)	50-180	50-300	5-250	5-350	40-250	40-350
Output Voltage Range(V)	-		-		14 - 27	14-35



KT-201, 202

DC ARC WELDING MACHINE

- FEATURES**
- Easy and safe to use, all aids and functions are available, so that the machines can even upgrade with development.
 - High current and excellent welding properties, Compact size and portable light weight design. Self-diagnosis function built-in for protective circuit & abnormal condition.
 - CPU type with built-in rating protector and electric shock detector, and inverter controlling.
 - Quick reflection velocity of high speed frequency makes easy Start and less air bubble with constant arc bead creation.
 - Self-electricity cut out while high temperature in machine.
 - High capacity IGBT adaptation ensures high duty cycle and low error

SPECIFICATION

MODEL	KT-201	KT-202
Rated input voltage(V)	1Ø 220V	1Ø 220V
Rated frequency(Hz)	50-60	50-60
Rated Output Current(A)	160A	180A
Rated Input Power(kVA/kW)	5/4.2	6/5.0
Maximum No-load voltage(V)	75	75
Rated load voltage(V)	26.5	27.2
Rated duty cycle(%)	60	60
External dimensions(mm) (width * depth * height)	140 x 470 x 220	160 x 500 x 250
Weight(kg)	7	8.5



WELTOP-ACDC 300A, AC300A
AC(DC) DIGITAL ARC WELDING MACHINE

- FEATURES**
- Improved working efficiency due to arc stability, easy handling with small and light weight, improved heat resistance, moisture resistance
 - Easy start of arc, current adjustment is continuous
 - Fine adjustable and suitable for welding of thin plate and thick plate, low power consumption, input wire is attached to wiring terminal block
 - Both AC and DC input power available
 - Suitable for preparing technician examination and on-site technical training

SPECIFICATION

MODEL	WELTOP ACDC ARC300A	AC300A
Rated Input	1Ø AC 220V	1Ø AC 220V
Rated frequency	50/60Hz	50/60Hz
Rated Out Current Range	300A	300A
AC Rated Out Current Range	55-300A	55-300A
DC Rated Out Current Range	40-250A	-
Rated Input	24kVA(13kW)	24kVA(13kW)
Rated Output Voltage	AC 32 V / DC 30V	AC 32 V / DC 30V
No-Load Open Circuit Voltage	AC 76 V / DC 60V	AC 76 V / DC 60V
Rated Duty Cycle	40%	40%
Dimensions(W*D*H)	427*732*739mm	427*732*739mm
Net Weight	135Kg	135Kg



WELTOP-250, 350, 352, 500
PULSE MIG/ MIG /MMA Arc WELDING MACHINE

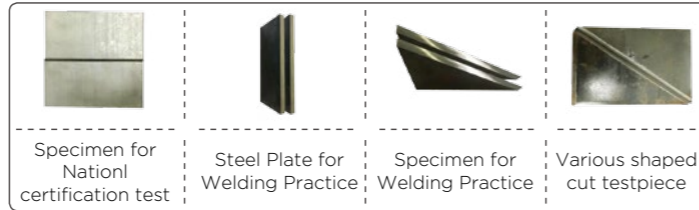
- FEATURES**
- IGBT inverter technology and DSP full digital control with synergic function, simple interface, easily operate. Excellent welding performance : free spatter, deep penetration, fine crystal, strong welding seam, high strength and adjust the arc characteristics can change the penetration force. MIN welding current is 40A.
 - Application : it is suitable for welding sheet plate like traffic signs, street light covers, Ad Words, advertising boards, metal furniture, ladders, farm tools, windows, doors, water coolers, hubs and so on. Available Material : Aluminum and alloy, stainless steel, carbon steel.

SPECIFICATION

Model	250	352	350	500
Rated Input Voltage(V)	3 phase 380V 50/60Hz	3 Phase 220V 50/60Hz	3 phase 380V 50/60Hz	3 phase 380V 50/60Hz
Input Voltage Range(V)	342 ~ 418V(3 phase)	198 ~ 242V	342 ~ 418V(3 phase)	342 ~ 418V(3 phase)
Welding Current Range(A)	40-250	40-350	40-350	40-500
Duty Cycle	60%	60%	60%	60%
No-load Output Voltage(V)	60			
Wire size (Ø)	Al: 1.0/1.2 SS: 0.6/0.8/1.0		Al: 1.0/1.2 SS: 1.0/1.2 Fe: 1.0/1.2	
Power	≥0.85			
Efficiency(η)	≥85%			
Insulation Class	F			
Dimension(mm)	600X250X425			
N.W.(kg)	31.6			



- 
Speed
 1500mm / min
- 
Capacity(Thickness)
 3~10mm
- 
Roughness
 less than 0,01mm
- 
Groove angle
 32°



DP-7000 Welding Piece Beveling Machine

FEATURES

- Groove angle up to 32°
- Insert the workpiece upright
- Emissions by processing a workpiece such as routers
- Machined surface roughness as 0.01mm, The biggest advantage of machining accuracy
- High-speed machining is possible, as the transfer operation speed is more than 1500mm / min
- Cutting tip of the four sides can process up to 300 per side (6t*150mm standard), and Advantage of using all four sides
- By attaching the chip cover, prevent the scattered pieces fundamentally, and creat clean working environment
- Minimizing vibration and static electricity generated while processing material, through a special device
- Dimensions (L)970X(W)600X(H)817(mm)
- Input power 3Ø 380V (Optional)
- Phase cutter For 32°
- Cutting capacity Minimum 3t - Maximum 10t
- Cutting thickness Minimum (W)30mmX(L)100mm
Maximum (W)300mmX(L)1500-5000mm
- Cutting method Completed of Cutter tool rotation cutting
- Feeding rollers belt GT3 X 1200 X 45(W) X 8MGT 1ea
- POWER GRIP GT3 X 1200 X 35(W) X 8MGT 1ea

SPECIFICATION

Dimensions	(L)800X(W)550X(H)700(mm)
Power consuming	2.05kW
Operation	Semi automatic
Cutting motor power	1.5kW(2HP) ,
Feeding motor	0.55kW 3/4HP
Processing Capacity	Minimum (W)30mmX(L)100mm Maximum (W)300X(L)1500-5000mm
Processing thickness	Minimum 3t - Maximum 10t

Overseas Sales Performance Over 30countries



2004
Vocational Training Center Afghanistan



2008
Mirpur Vocational Training Center Bangladesh



2008
Industrial Technical School Vietnam



2015
Malaysia CSR Donation to CIAST



2015
Malaysia CSR Donation to CIAST



2015
Malaysia NOU with Polytechnic Unk Omar



2016
Korea- Laos Summit economic delegation



2016
Korea- Laos Business Forum



2016
2nd Certified Excellent Product issued by Public Procurement Service