







# Company Profile

### **WOOSUNG Electric Machinery**

President : Nam Dong SuWeb Site : <u>www.wsweld.co.kr</u>

■ Establishment : Jan, 1979 ■ E-Mail : ws1047@chol.com

■ Business Condition : Manufacture ■ Contact : +82-31-764-1641~2

■ Registry Number : 126-81-19547

■ Location : 542, Docheogwit-ro, Docheok-myeon, Gwangju-si, Gyeonggi-do, Korea





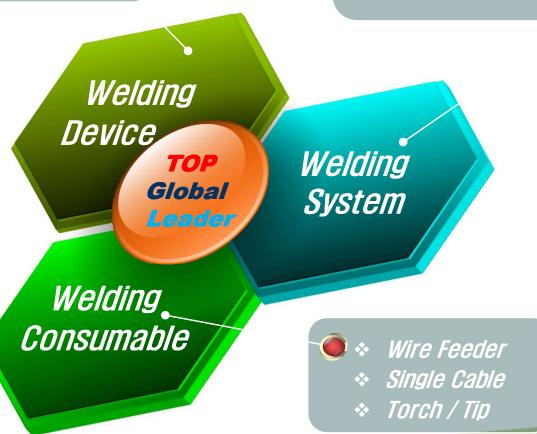




### Business area

- Welding Machine
- \* Auto-Carriage
- Welding Automation

- \* Weld Monitoring System
- \* Automatic Girth Welder
- \* Automatic Vertical Welder
- 🔅 Welding Manipulator 🧶

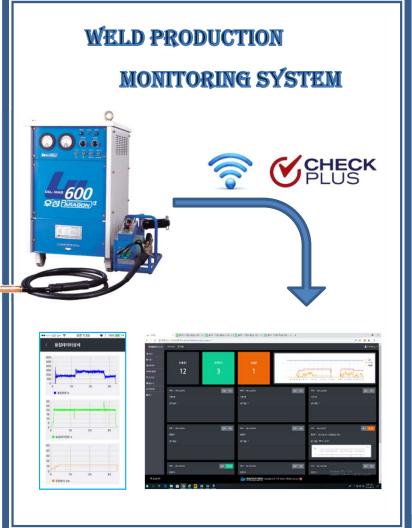






### Main Product









### History

#### 1990s

Obtain KS Certification for thyristor DC arc welder Obtain KS Certification for KSC9605 Switch from individual company to limited company, Factory relocation

Produces SUBMERGED POWER SOURCE and Carriage

Produces AIR ARC BLASTING TORCH

Produces CO2 WIRE FEEDER

Produces WATER COOLING MIG TORCH

Produces EXTENSION FEEDER

Produces SUBMERGED 2 POLE CARRIAGE

Produces CO2 LIGHT WEIGHT MINI WIRE FEEDER

(Registration of design NO. 0237247)



#### 1980s

Produces DC arc welder & TIG control box Produces AIR ARC GOUGING MACHINE Selected as a lead company in Korea welding field by Promote Industry Administration



#### 1979

Establish WooSung Electric Co., Produces DC TIG WELDER Produces AC/DC TIG WELDER



2000s

Produce PORTABLE CO2 WELDER (SINGLE 160A/200A)

Produce HIGH CURRENT WELDING MACHINE

Produce High Current Welding CARRIAGE for ALUMINIUM

Produce ALUMINIUM MIG WELDING MACHINE

Develop FULL DIGITAL CO2 / MAG WELDING MACHINE

Develop AUTOMATIC GIRTH WELDER 및 MULTI GANTRY

Develop and Produce V-GROOVE TRACE CARRIAGE

Develop and Produce FLUX RECYCLEING SYSTEM

Develop HIGH VOLTAGE TIG WELDER

Delvelop GOUGING & SUBMERGED Multi POWER SOURCE

Inaugurated the 9th Chairman of KWIC



### Technical Certification



ISO 9001 & Others

















[ Patents and Various Certifications ]





### Major Customers























### Product

- SUBMERGED ARC WELDING SYSTEM (SAW)
- SUBMERGED ARC CARRIAGE
- SEAM TRACKING SYSTEM
- CO2/MAG ARC WELDING MACHINE
- CO2 AUTO CARRIAGE FOR SHIP BUILDDING YARD
- TIG WELDING SYSTEM
- GOUGING MACHINE
- ELECTRO GAS WELDING SYSTEM (EGW)
- AUTOMATIC GIRTH WELDER (AGW)
- TANK WELDING SYSTEM
- Weld Production Monitoring System [ Newly Developed ]







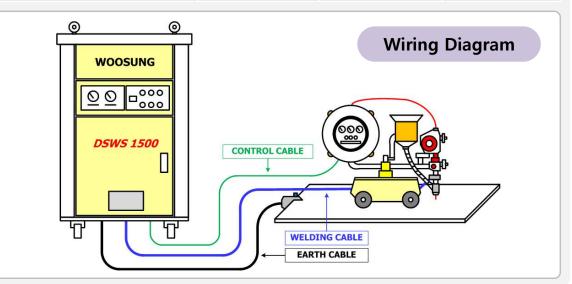
#### **SUBMERGED POWER SOURCE**

#### WS-DSWS 1000/1500/2000 Series



- Thyristor DC phase control system easy to change constant current and constant voltage properties with simple switch.
- Also can use as a Gouging machine. Materialize perfect durability.
- Keep steady welding current even though power voltage or arc voltage change.

Model	WS-DSWS 1000/1500/2000		
Input Voltage	3Ø 220/380/440V		
Rated Frequency	50 / 60Hz		
Rated Input	80 KVA	130 KVA	180 KVA
Output Current	100-1000 A	150-1500 A	200-2000 A
No-load Voltage	80 V	88 V	90 V
Load Voltage	50 V	50 V	50 V
Duty Cycle	60~100 %	60~100 %	60~100 %







### SUBMERGED ARC CARRIAGE



Model	WS-CRG-45	WS-TD-DA
Welding Current	300A~1500A	1500A 2 Electrodes
WIRE DIA.	(3.2) 4.0 4.8 6.4 mm	
Wire Feed Motor	60W DC MOTOR	100W DC MOTOR
Feed Speed Control	S.C.R Arc Voltage Control	
Nozzle Adjust Range	Vertical 50 mm Horizontal 50 mm	Vertical 75 mm Horizontal 100 mm
Travel Speed	10-100 cm/min	15-500 cm/min
Travel Speed Control	S.C.R Constant Speed Control	
Hopper	6 liter	12 liter







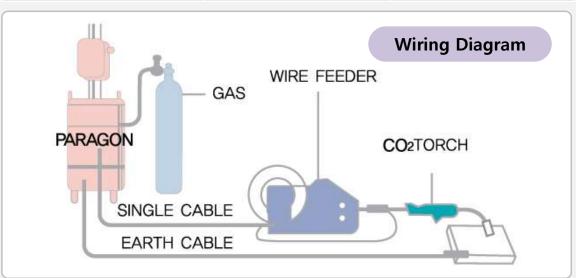
### **CO2 ARC WELDING MACHINE**

#### PARAGON α 500/600A Series



- CO2 , MMA , and Gouging are possible by one machine.
- Digital Control system and various functions make high productivity possible
- By Commercial frequency and input voltage tracking function, steady arc and voltage can be gained
- Two level welding starts make smooth welding possible

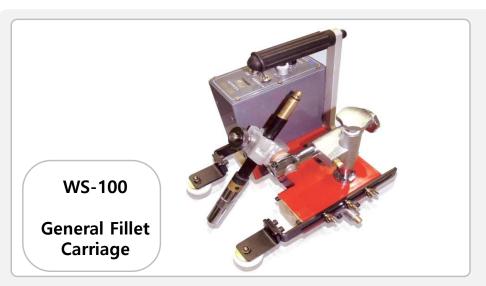
Model	PARAGON α 500	PARAGON α 600
Input Voltage	3Ø 220/380/440V	
Rated Input	30 KVA	39 KVA
Output Current	60~500 A	80~600 A
Output Voltage	16-45 V	16~50 V
Duty Cycle	60~100 %	60~100 %
Applicable Wire	1.2 1.4 1.6 mm	1.2 1.4 1.6 mm
Dimensions & Weight	450x700x820 mm (164 Kg)	480x720x850 mm (194 Kg)





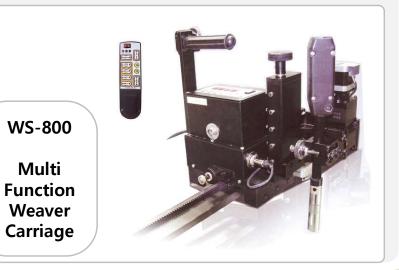


### **CO2 AUTO CARRIAGE**



Model	WS-100	WS-600	WS-800
Dimension (mm)	260 X 200 X 270	160 X 290 X 330	144 X 360 X 860
WEIGHT (Kg)	4.9	8.5	7.5
Travel Type	Rubber Wheel	Rubber Wheel	Rackgear Guide Rail
Travel Speed (mm/min)	0~1000	0~1000	0~600
Travel Motor	BLDC 24V 3500 rpm	2 Phase Stepping 1/250 Gear Box	2 Phase Stepping
Remote Control	Χ	0	0









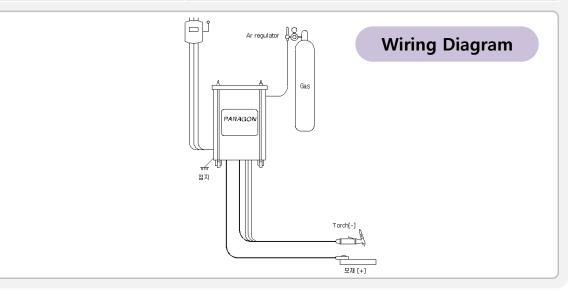
### TIG ARC WELDING MACHINE

#### **DWT500 / ADT500**



- By high performance magnetic amplifier, control range of output current is wide. And steady drooping characteristic makes face of weld beautifully.
- Movable core operating method power transformer is controlled straight. And steady drooping characteristic make face of weld beautifully.
- DC TIG, DC ARC, AC TIG, AC ARC welding are possible by one machine.

Model	DWT 500	ADT 500
Input Voltage	3Ø 220/380/440V	1Ø 220/440V
Rated Input	39KVA	43 KVA
Output Current	30~500 A	30~500 A
Output Voltage	TIG 24 V / ARC 40 V	
Duty Cycle	60%	
Crater	YES / NO / REPEAT	
Dimensions & Weight	550 x 820 x 1100 mm	







### **GOUGING MACHINE**

#### **WS-DWGS 800**



Model	WS-DWGS 1000
Rated Input	80KVA
Output Current	1000A
Output Voltage	40V
Duty Cycle	60%
Dimensions	590(W) x 940(L) x 1120(H)
Weight	560 KG

- Built-in electric prevention circuit. No danger of electric shock.
- Built-in Constant Current circuit. It makes that output current doesn't change under the fluctuation of power, voltage, and arc length.
- H insulation makes good heat-resisting property and durability.

# WELDING CABLE (WCT) AIR ARC BLASTING TORCH AIR ARC GOUGING TORCH







#### **WCT CABLE**



TYPE	WCT	
CONDUCTOR	SMOOTH COPPER WIRE	
TAPE	PAPER	
INSULATOR	NATURAL RUBBER	





### **ELECTRO GAS WELDING SYSTEM**



- Elector-Gas Welding machine possible vertical butt welding using copper shoe.
- Use Flexible Rail for curved work metal.
- ON/OFF Type Rail Magnet makes rail can be removable easily.
- Diving doesn't shake because of the Balance arc for carriage balance maintenance and driving stability.

Composition	ltem	Specification
Body	Dimension	400W X 285L X 310H
	Weight	16 Kg
	Travel Type	Rack & Pinion Gear Travel
	Travel Speed	0~250 mm/min (AUTO) 550 mm/min (MANUAL)
	Torch Adjustment	20mm (Lateral Adjusutment) ±20mm (Right & Left Adjustment) ±15mm (Vertical Adjustment) 20° (Angle Adjustment)
	Form	Flexible SUS Rail
Rail	Connect Rail	ON/OFF Magnet Type
	Quantity	Right and Left 2EA – 4Point, Length 1.5m



# **Girth Welding for Tank Erection**







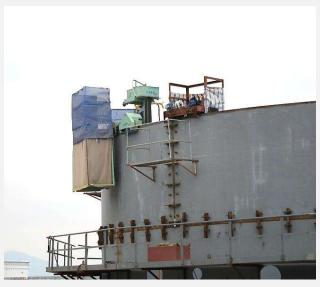








# **Vertical Welding for Tank Erection**











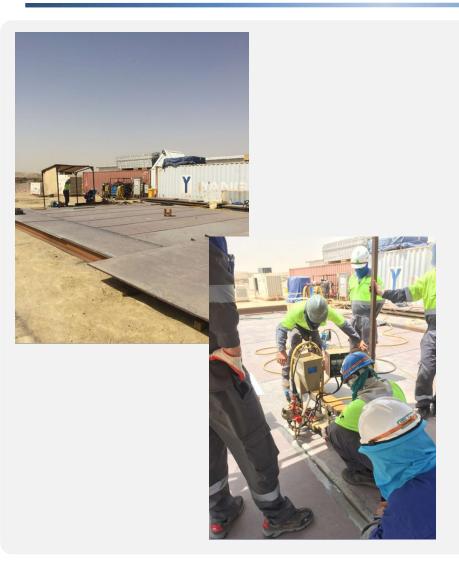


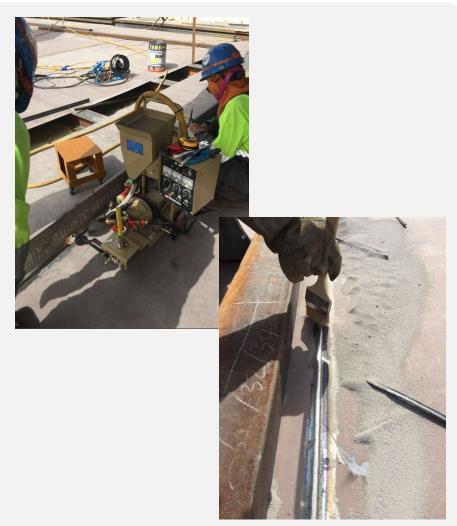






# **Bottom Welding for 9% Nickel LNG Tank Erection**







# Submerged Welding for B-H & BOX Production











# Plasma & Mig Welding for Stainless Line











# **Submerged Welding for Site Duct Production**











# **Gantry Welding Machines**











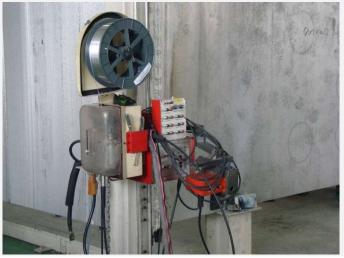
# Aluminum MIG Welding for MOSS LNG Shipbuilding













# Welding Machinery for Pressure Vessle





Longi. Seam Welding







**Girth Seam Welding** 



# Welding Machinery for Pressure Vessle





**Nozzle Welding System** 









#### YouTube

[ Weld Production Monitoring System]

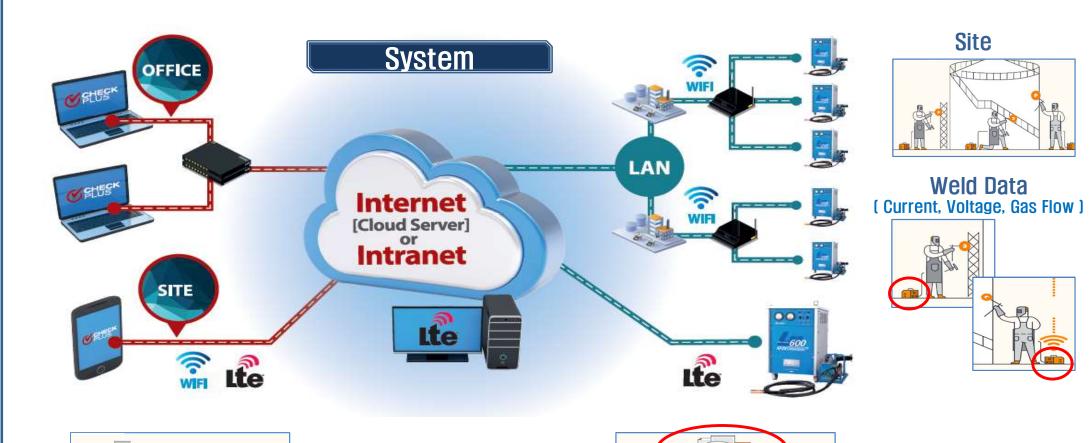
https://www.youtube.com/watch?v=KzbSYjMVr0w&t=63s

- 24-hour working Industrial Monitoring System
- Cloud-based system → Purchase of IT Hardware and Software x (No need to invest in expensive IT Manpower & Hardware equipment)
- Monitoring of equipment anywhere in the world
- Create objective data of arc rate / working time / consumption of consumables and Central management system
- Create objective data of Idle equipment / work productivity / worker management





- No Software to Buy, Install or Upgrade with Standard Edition
- No IT Hardware
- Just Log In and Start Using It





Generate useful data ( Work time, Driving time, Consumption of consumables )



Data Transfer
[ Real-time transmission to Cloud Server ]













Always We Do Our Best for you

# Thank you.