

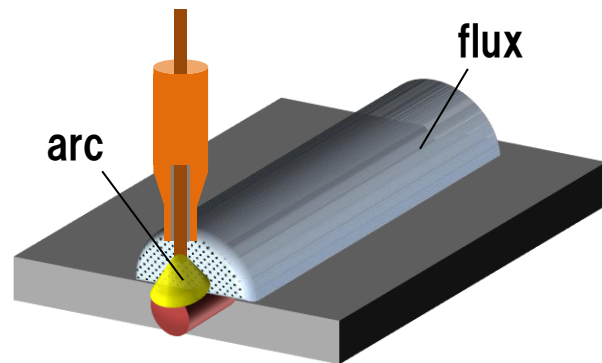


New Submerged Arc Welding Machine Supporting Thick Plates Welding through Digitization

WB-S1500 & Digital Automelt

What is Submerged Arc Welding?

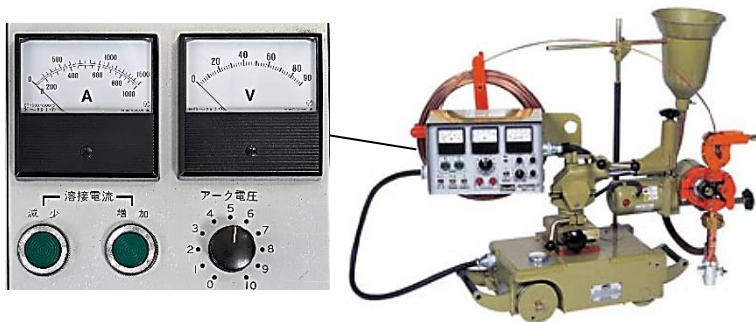
- **Highly efficient welding process for thick plates** using sand-like flux to protect the weld metal.
- A submerged arc welding is applicable to **various large products**.



【Application examples】



Conventional system



Condition adjustment by physical knobs

Output depends on environment

Phase control requires wiring changes

Digital Welding System



Numeric setting/storage are possible

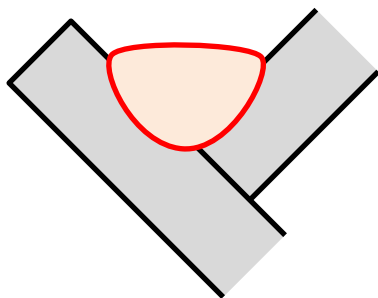
Precise output according to settings

Digitally adjustable by the control box

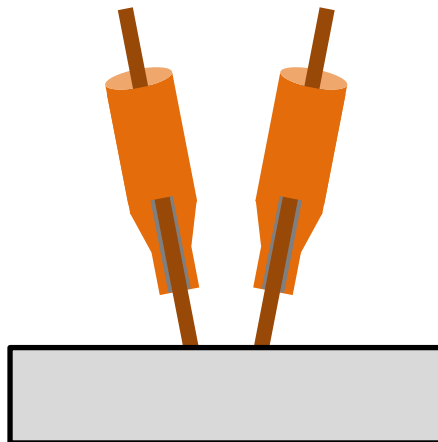
Simplify and quantify welding operations!

- **High output: Max. 1500 A !**
 - ▶ The highest output in the world, applicable to all applications
- **Required breaker current has been reduced !**
 - ▶ From 700 A (conv.) to 300 A.
- **Equipped with various welding modes !**
 - ▶ Replaceable from any power source.

Welding mode	Equivalent conv. WPS	High WFR	Deep penetration	Backing weld	Applications
AC•CC	KRUMC/KSUC	○	-	-	General purpose
DC•CC	CPMR	-	○	-	First layer welding
AC•CV	None (new)	○	-	○	Single-sided full-penetration welding
DC•CV	CPMR	-	○	○	



Fillet welding (flat position)



Current/voltage : **800 A, 28 V**
Tandem (2-electrodes) welding
Without steel wool for ignition

Welding mode : AC-CC	AC Parameters Frequency : 60 Hz EN ratio : 50% EP/EN peak current ratio : 100%
AC waveform type : Square	
Phase difference between electrodes : 120°	

Test coupons



Digital Submerged Arc Welding System
DigitalAutomelt/WB-S1500
Offers an **Advanced Submerged Arc Welding**.

DAIHEN