Ŵ **PULSE WELDING Hi 500P**

A new concept premium welding machine using Wide - SAC technology





Package configuration

- Welding machine
- Wire feeder (wire cover type)
- Torch 5m (water-cooled) • Input cable 5m
- Single cable 10m
- Gas hose 3m
- Earth cable 3m
- Water cooler

Options

- Wire feeder
- (Wire cover type, square box type)
- Water cooler (other type)
- Regulator

Specification		
Rated Input power	400V, 3P, 50/60Hz (±15%)	
Rated Output	500A,42V (100%)	
Communication	CAN, I/O Contact, Device Net	
Welding Method	MAG, MIG, Pulse MIG	
Weight	70kg	
Dimension	380mm x 610mm x 850mm	

Features

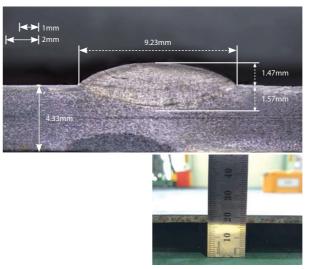
- Integration with automation equipment and robot
- ► Low heat input, low spatter welding SAC, SPC. Wider-SAC
- ▶ Built-in Pulse synergic (Total 40 synergic, 30 pre-configured and 10 add-on)
- Built-in pulse welding function for thin plates and shipbuilding (100% MAG welding) • Built-in pulsed submerged arc welding function for panel lines in shipbuilding (specialized low heat input)
- Welding scrubber can substitute conventional TIG welding machines
- ► Can choose between MIG wire feeder and regular wire feeder
- Built-in Aluminum rear plate welding function (Ar 100%)

PERFORMANCE

Pulsed submerged arc welding

- For welding thin plate panel lines in shipbuilding (below 6mmt)

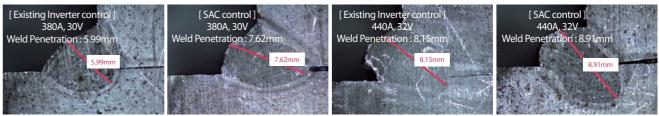
[DC, 260A/32V, 640mm/min, 4.3mmt, weld penetration : 1.57mm]



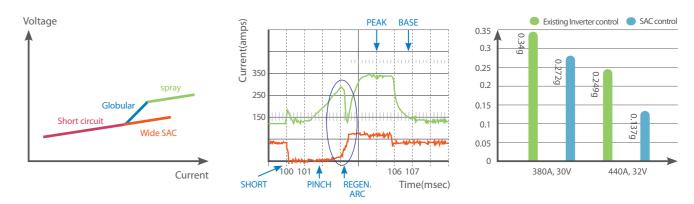
Wide Surface Arc Control (Wide-SAC)

- Forces short circuit control of flux cored/metal-cored wires in globular areas - Low spatter, high weld penetration (Decreases spatter by 40%, Increases weld penetration by 20%) when compared to existing inverter welding machines

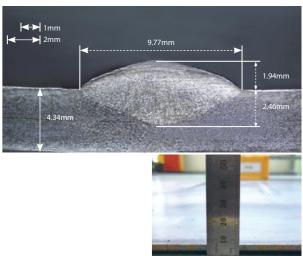
Comparison of weld penetration



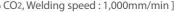
[Metal-cored wire dia 1.6mm, 100% CO2, Welding speed : 1,000mm/min]



- In comparison to DC submerged arc welding : Increases weld penetration by 35%, Decreases base metal deformation rate by 30%



[Pulse, 280A/27V, 640mm/min, 4.3mmt, weld penetration: 2.46mm]



[SAC control concept]

[Comparison of spatter quantity]