Hi500PIPE, Orbital Carriage

Hyundai PNS Welding System R&D Dept



Premium welding machine specialized for PIPE automation line



[Hi500PIPE]

- Built-in functions and processes of GMAW + GTAW(HF)
- · Built-in welding technique for all processes of pipe work: from ROOT to CAPPING
- Built-in SAC ROOT (mild steel and suspension), low heat input cladding/hard facing function
- · Intelligent orbital carriage (HiP-Orbital i) interlocking
- Built-in touch sensing and arc sensing functions
- Passive polarity switching (MIG/MAG ↔ TIG)
- Lift Start and HF Start modes are available when using TIG mode.
- Fast TIG pulse current response speed of 1 msec or less
- Outstanding durability to withstand high ambient temperatures

Product	Rated power	Input	Range	Efficiency	No load Voltage	Duty cycle	Weight	Dimension (W*D*H, mm)
HI500PIPE`	22.5kVA	2P/3P 380V,440V 50/60Hz	5 ~ 500A/10V ~ 38V	90%	Less 80V	3P, 380V: 80% 2P, 380V: 60% (40°C)	50kg	320*600*591



'Maximum efficiency with minimum operation' PIPE automation carriage



Welding conditions can be set up to 9PASS for lamination welding

- · Left and right time setting during weaving, weaving width, weaving speed can be set
- After welding, after automatic return to origin, start with the next pass
- · Construction of welding condition database according to pipe specifications
- Provides a smooth user interface with simple operation
- Maximize work efficiency with simultaneous operation of 2 sets
- Easy to attach and detach to the base material with the operation remote control magnet
- · Provides various welding performance with 4 types of weaving

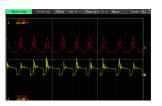
Product	Input power	Travel speed	Operation angle	PIPE diameter	Pass	Weight	Dimension (W*D*H, mm)
HiP Orbital i	24VDC	50~500mm/min	0~360°	최소 300mm 이상	9PASS	Carriage : 7.5kg Control panel : 1.5kg	452*177*268

Root welding mode

- Super-layer welding technique when welding CO2 gas / MAG gas Function: SAC Root
- Carbon steel, SUS applicable











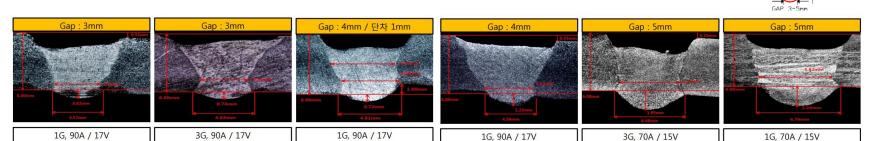


carbon steel 1.2mm, CO2 100%

stainless steel 1.2mm, Ar95% + CO2

Root Gap Test

SM70 1.2mm CO2 100%





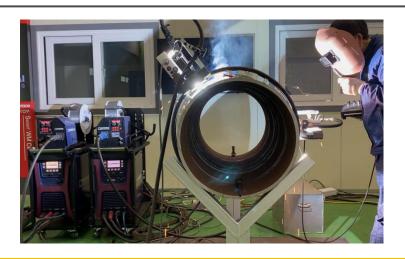
Easy user operation



[HiP Orbital I DISPLAY]

- · Welding condition 9PASS setting
- Weaving width and time setting according to weaving type
- UP SLOPE, DOWN SLOPE settings
- Construction of welding condition data

◎ Double Orbital 용접 구현









- 360 degree automatic welding operation in a short time by driving 2 sets of welding equipment
- Excellent welding performance according to the stored welding conditions

