

iSW30 Series

The welder is designed with the excellent structure of mechanics, as well as equipped with reliable distance and pressure drive system and pneumatic system of precise proportional valve to stably and reliably output. Six welding results can be on-line and off-line monitored to control welding quality at any time. Data storage on network provides intelligent quality management for customers.



5G Network



Internet of Things



Communication Equipment



Cloud



Ultrasonic Metal Welder

- The 6th generation iQS operation system, multi-level password protection with hierarchical authorization.
- Supportable to MES,DPS for real-time data management.
- Profiling of the welding process
- Built-in scanning port supporting four brands of scanning guns for data traceability.
- Stable workmanship
- Multiple welding modes
- Multiple functions available for integration of an automatic production line.
- Environment friendly and low impedance
- Cost saving
- High resistance to corrosion.

Technical Parameters

Hardware	
Output interface	7-inch color touch screen
Control System	iQS
Motion control system	Pneumatic
Frequency adjustment	IGBT auto-tuning
Z axis adjustment	digital display for linear speed
Z axis accuracy(mm)	±0.02mm
cylinder stroke (mm)	φ50*30mm≤2mm
Air pressure control	proportional valve
Max. air pressure(mpa)	1Mpa
Max Welding time(S)	5S
Cooling system	Vertex cooling
Generator alert	abnormal current/excess current/excess power/excess temperature
Relative humidity	30%--95%, without condensation
Operation temperature	+5°C to +55°C
Air source	Compressed air must be clean, dry and free of lubricants
Voltage(V)	AC220V±5% 50/60Hz
Dimension (L*W*H)mm	260*430*470mm

Controller		
Model	iSW30-3512	iSW30-4008
Frequency(KHz)	35KHz	40KHz
Power Range	≤1200W	≤800W
Language(icon)	1)Chinese 2) English 3) Japanese 4) French 5) Portuguese 6)Spanish 7)Italian 8)Korean	
Unit	mm/in	
Unit of force	Mpa/Bar/Psi/Kpa/Kgf	
Pressure unit	N/Kgf/ibf	
Triggering method	Time/pressure/position/power	
Welding method	Welding time/relative position/absolute position/welding energy/peak power/maximum pressure	
Max Welding time(S)	5S	
Amplitude control	Single amplitude/step amplitude/distance amplitude	
Quality control	Time/welding depth/absolute position/energy/power/pressure	
Pre-press vibration	1)OFF 2)preoscillation time 3)preoscillation position	
Welding stacking function	Time/position/energy/pressure	
Welding curve	4-group	
Operating air method	Standard/multi-stage	
Air pressure range(mpa)	0.05mpa≤0.65mpa	
Operation pressure(N)	22N≤1178N	
Holding method	static pressure	
Parameter management	99-group	
Multifunctional control(I/O)	3-group Input/3-group output	

Transducer	
Warranty	1year
Brand	DONGHO
Transduction ratio	95%<real ration<100%

Booster	
Amplification ratio	Titanium 1:1.5

Horn		
Model	iSW30-3512	iSW30-4008
Frequency precision(KHz)	34.50KHz-35.50KHz	39.50KHz-40.50KHz
Welding area(ϕ mm)	According to material/shape/thickness	
Product size	According to material/shape/thickness	

(We preserve the right to update the above specifications in case of any improvement of the products, we will not otherwise inform due to above change.)