

## iBW 30 Series

The iBW 30 series are all-in-one wire harness welders, widely used in the automotive industry and other wire-related industries. The excellent mechanical structure design enables accommodation with ultrasonic generators of different powers like 3KW and 4KW. The digital ultrasonic generator is used in this system. All the welding parameters can be input digitally via the communication between the ultrasonic generator and the controller. All the welding results can be monitored on-line and off-line and the welding quality can be monitored at any time. The network data storage function provides customers with intelligent quality management.



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 and PC configuration for real-time data management.
- Profiling of the welding process
- Built-in scanning port supporting four brands of scanning guns for data traceability.
- Available for different welding modes
- Applicable to copper and aluminum stranded wires welding.
- Welding parameters record and QA diagnosis and control.
- Multiple functions available for integration of an automatic production line.
- Low impedance and high resistance to corrosion.

# Technical Parameter

Hardware	
Output interface	7" color touch screen
Control System	iQS
Motion control system	Pneumatic
Frequency(KHz)	20KHz
Frequency adjustment	IGBT auto tuning
Z axis accuracy(mm)	±0.02mm accuracy
Air pressure control	proportional valve
Max. air pressure(mpa)	1mpa
Max Welding time(S)	5S
Generator alert	Frequency failure/overload current/power overload
Relative humidity	30% - 95%, no condensate
Operation temperature	+5°C - +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	220*210*510mm
Weight(kg)	40KG

Controller		
MODEL	iBW 3030	iBW 3040
Power(W)	3000W	4000W
Trigger mode	time	
Welding mode	welding time/welding energy	
Weld quality setting	time/energy/power	
Language(Icon language)	1) Chinese 2) English 3) Japanese 4) French 5) Portuguese 6) Spanish 7) Italian 8) Korean	
Amplitude control	Single-stage amplitude	
Operating air method	Standard/multiple	
Air pressure range(mpa)	0.05mpa≤0.65mpa	
Holding method	Static pressure	
Pre-press vibration	1) OFF 2) pre-press time 3) pre-press position	
Welding stacking function	time/position/energy/pressure	
Parameter management	99 groups	
Multifunctional control(I/O)	3 groups input/3 groups output	

Transducer	
Warranty	1 year
Brand	DONGHO
Transduction ratio	95%<real ratio<100%
Booster	
Amplification ratio	Titanium 1:1.1
Horn	
Frequency precision(kHz)	19.80KHz-20.20KHz
Product size	Per material/square, more than 25mm <sup>2</sup>

Data collection	
System data display	dynamic area/trigger area/welding area
Product identification	Bar code/QR code
Bar code scanner supported	Honewell/Code Reader/Datalogic/Infoscanner
Memory capacity	16G
Transfer memory data	USB download and reading
Transfer dynamic data	Ethernet/RS485/RS232/MES

(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. )