

GW series

The GW series ultrasonic plastic welder is integrated with an ultrasonic digital generator and controllers, equipped with multiple welding modes and future-oriented iQS operating system. Sturdy framework with accurate and well-practiced driving components can meet the conventional welding requirements in the market. The welded parts strength is close to the strength of raw materials. They have powerful functions to obtain a unique effect and meet the needs for welding various products. The ultrasonic technology can promote the production efficiency and product aesthetics.

FEATURES AND ADVANTAGES

- 6th generation iQS operation system
- Built-in scanning gun for data tracing
- Mounted lifting motor for structural adjustment, convenient and effortless.
- Modular structures with multiple welding modes designed for the whole series of welders
- Metal die-casted stand column in square structure with high-performance rigidity
- USB-saved welding parameters and quality QA diagnostic control
- Auto-tuning of ultrasonic frequency, overload protection system and malfunction alarm.

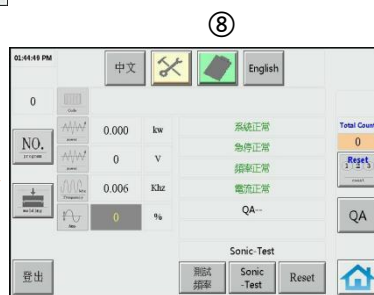


OPERATION PANEL DISPLAY



Main Panel

- ① System Coding
- ② Functional Parameters
- ③ Language- Chinese
- ④ Monitoring Data
- ⑤ Language- English



- ⑥ Recipe Management
- ⑦ Welding Function Area
- ⑧ Data Recording

配方管理區域						
自備配方	機號	1	2	3	4	5
1	0-熔接時間	0	0	0	0	0
	0-延遲時間	0	0	0	0	0
作業模式	原機數據	0.88	0.00	0.00	0.00	0.0
	熔接數據	0.99	0.00	0.00	0.00	0.0
	0-熔接時間	0.66	0.00	0.00	0.00	0.0
選擇存取編號	編號	0	0	0	0	0
1						

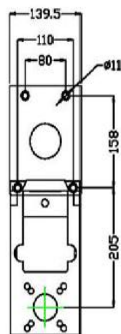
Recipe Management Panel



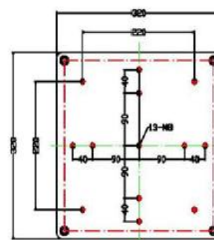
Welding Function Area

目前配方		0		作業模式		0 熔接時間		01:48:10 PM	
DATA		Total Count		0					
編號	機號	機號	功率	電壓	電流	電阻	電阻	電阻	電阻
					</				

Data Recording Panel

[illegible]

Fixed specification: 320 mm
Location specification: 2-M8



DONG HO ULTRASONIC		2021-03
		
Pneumatic ultrasonic series GW-L Base/3D Shape size	Hsin DONGHO Ultrasonic www.dongho-d55.com dongho@dongho-d55.com	A-1 A

FEATURES AND ADVANTAGES

- DSP microcontroller processing ultrasonic welding process;
- Widescreen touch screen - Easy programming for all welder settings, parameters can be set through menus;
- Simple and easy-to-use human-machine interface - different function sections;
- Setting parameters is more convenient, man-machine efficiency is more ideal;
- Data storage - Record the store ultrasound welding machine settings, working parameters and welding data,
- Program editing - welding procedure editing and records storage;
- Workpiece identification record -USB scan input bar code or 2D code to identify records in welding data.

Ultrasonic Controller



GENERATOR BOX BACK

External control
and accessories

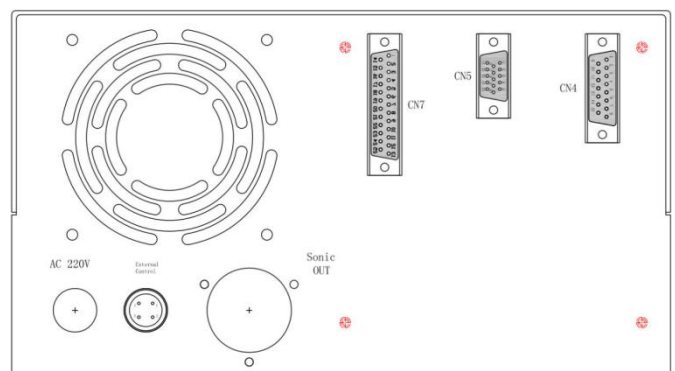
connection to
main frame

Mainframe position
encoder

Power cord

Connection to motor

Connection to
ultrasonic converter



PRDOCUT PARAMETERS

HARDWARE	
Output interface	7" color touch screen
Operating system	iQS
Motion control system	Pneumatic
Frequency regulation	IGBT auto tuning
Z- axis positioning accuracy(mm)	±0.05mm accuracy
Cylinder stroke(mm)	80mm±1mm
Maximum compression pressure(mpa)	1Mpa
Maximum welding time(S)	≤6S
Cooling system	Vortex cooler
Generator alarm	Frequency failure/overload current/power overload
Relative humidity	30% - 95%, no condensate
Operating temperature	+5℃ - +55℃
Air Source	Compressed air must be clean, dry and free of lubricants
Voltage source(V)	AC 220V±5% 50/60Hz
Measurement(L*W*H)mm	350*622*1140mm
Weight(kg)	96.5KG

CONTROLLER				
MODEL	GW-AS1530	GW-AS2020	GW-SS1530	GW-SS2020
Trigger mode	Delay Time	Delay Time	Delay Time/Position	Delay Time/ Position
Welding mode	welding time/ welding energy/ Max. Power	welding time/ welding energy/ Max. Power	welding time/ welding energy/ absolute position	welding time/ welding energy/ absolute position
Power(W)	≤3000W	≤2000W	≤3000W	≤2000W
Weld quality setting	welding time/ welding energy/ Max. Power	welding time/ welding energy/ Max. Power	welding time/ welding energy/ absolute position/ Max. Power	welding time/ welding energy/ absolute position/ Max. Power
Language (Icon language)	1) Chinese 2) English			
Amplitude regulation	Single-stage amplitude			
Operation air	Standard			
Air pressure	≥0.05Mpa ≤0.65Mpa			
Hold mode	Static pressure			

Menu management	99 groups
Accessory expansion (optional)	Acoustic enclosure/Auto Reeling/Auxiliary fixture*2/Light curtain protection

PRODUCT PARAMETERS

CONVERTOR	
Warranty	1 year
Brand	DONGHO
Conversion rate	90% < real rate < 100%
BOOSTER	
Booster ratio	Titanium 1:2.5

SONOTRODE						
Model	GW-A S1530	GW-S S1530	GW-A S2020	GW-S S2020	GW-A S3510	GW-S S3510
Frequency accuracy	14.70~15.20KHz		19.80KHz-20.20KHz		34.80KHz-35.20KHz	
Weld area	Per material/shapes, not more than 200mm		Per material/shapes, not more than 150mm		Per material/shapes, not more than 50mm	
Product size	Per material/shapes, not more than 200mm		Per material/shapes, not more than 150mm		Per material/shapes, not more than 50mm	

DATA COLLECTION METHOD	
Data display	Welding data area
Product Identification	Bar code/QR code
Scan gun brands it supports(USB port)	Honewell/Code Reader/Datalogic/Infoscanner
Machine memory space	1500 times/cycle
Memory data transfer	USB download and reading

(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.)