

*Spin Welding**Hot Plate Welding**Infrared Welding**Ultrasonic Welding*Web: www.cnzhengbo.com / www.mp-sonic.com,*Hand-in-Hand, Move forward*

Hot Plate Plastic Welder MSH-6550S

Hot plate welding is a kind of thermal plastic welding technique capable of high welding strength and perfect air-tightness plastic joining. It is mostly applied for challenge welding plastic joining in large size and complex geometric design. During hot plate plastic welding, two plastic halves are held by jigs and move to be molten by heating by hot plate, after which the two plastic halves become re-solidified to achieve joining under high pressure.

MSH-6550s is a hot plate welding machine applying servo motor systems to control action in precision, which can weld plastic in square max to 652*400 (mm). With servo control system, machine achieves hot plate welding process in steps in precision, which is a choice for low temperature hot plate welding.

MSH-6550S is mostly applied to weld thermoplastic parts in large size, eg in automotive industry: tail lamp, washer tanks, glove box lid, etc.



Main Features:

- ✧ Servo control system in high precision;
- ✧ Fast action speed, especially good for low temperature hot plate welding;
- ✧ Achieves action speed process control (speed-steps-control);
- ✧ Hot plate melting temperature controlled by PID, welding temperature is controlled in stability and high precision by PLC temperature module;
- ✧ Heater error ID is detected and indicated on HMI for easy fault-shooting;
- ✧ Welding parameters storage is available to manage hot plate welding process;
- ✧ Alarm message/fault history is recorded for hot plate welding quality management;
- ✧ Optical fence at front and safety door at sides and rear is designed for security;
- ✧ Vacuum generator and pneumatic clip system is design to hold plastic parts during hot plate welding;
- ✧ Ejection function by pneumatic system is designed helping remove welded parts from jigs;
- ✧ Parts detection function is available to avoid operation without parts loading;
- ✧ Quick tooling change-over for easy tooling change over (manual type);
- ✧ I-Cloud remote service system (Wifi type) for easy and quick service.

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Specification

| | |
|---|----------------------------------|
| Weight: 1.5T | Power Supply: 380V 50HZ |
| Dimension: 1750*1550*2600mm | Machine Control: HMI |
| Upper Jig Plate: 660*420mm | |
| Hot Mould Plate: 660*400mm | Max Power: 20KW |
| Max Welding Area: 652*400mm | Control Voltage: DC24V |
| Optical Fence Protect Height: 440mm | Temp Zone: 4+4 |
| Upper Jig Move Distance: 350mm | Sensor Detection Distance: 3~8mm |
| Lower Jig Move Distance: 300mm | Working Condition |
| Hot Platen Move Distance: 450mm | Air Supply: 0.5--0.7Mpa |
| Air Supply Pipe: Φ12 | Max humidity: ≤80%RH |
| Optional <input type="checkbox"/> Auto Jig Loading System <input type="checkbox"/> SPC <input type="checkbox"/> UPS <input type="checkbox"/> Vacuum Pump | Room Temp: -10--60°C |
| | Noise: ≤85dB |

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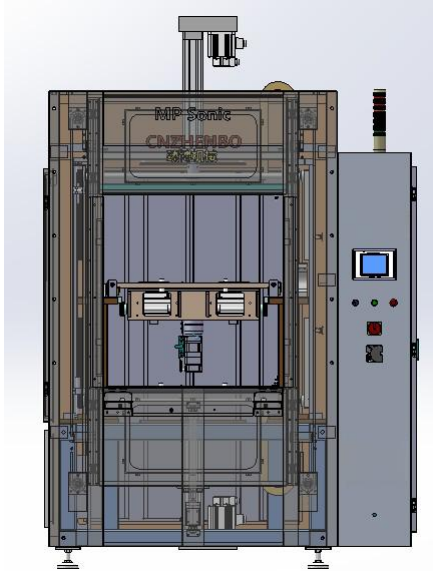
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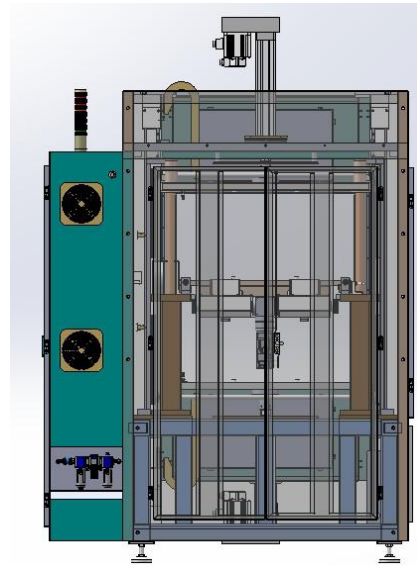
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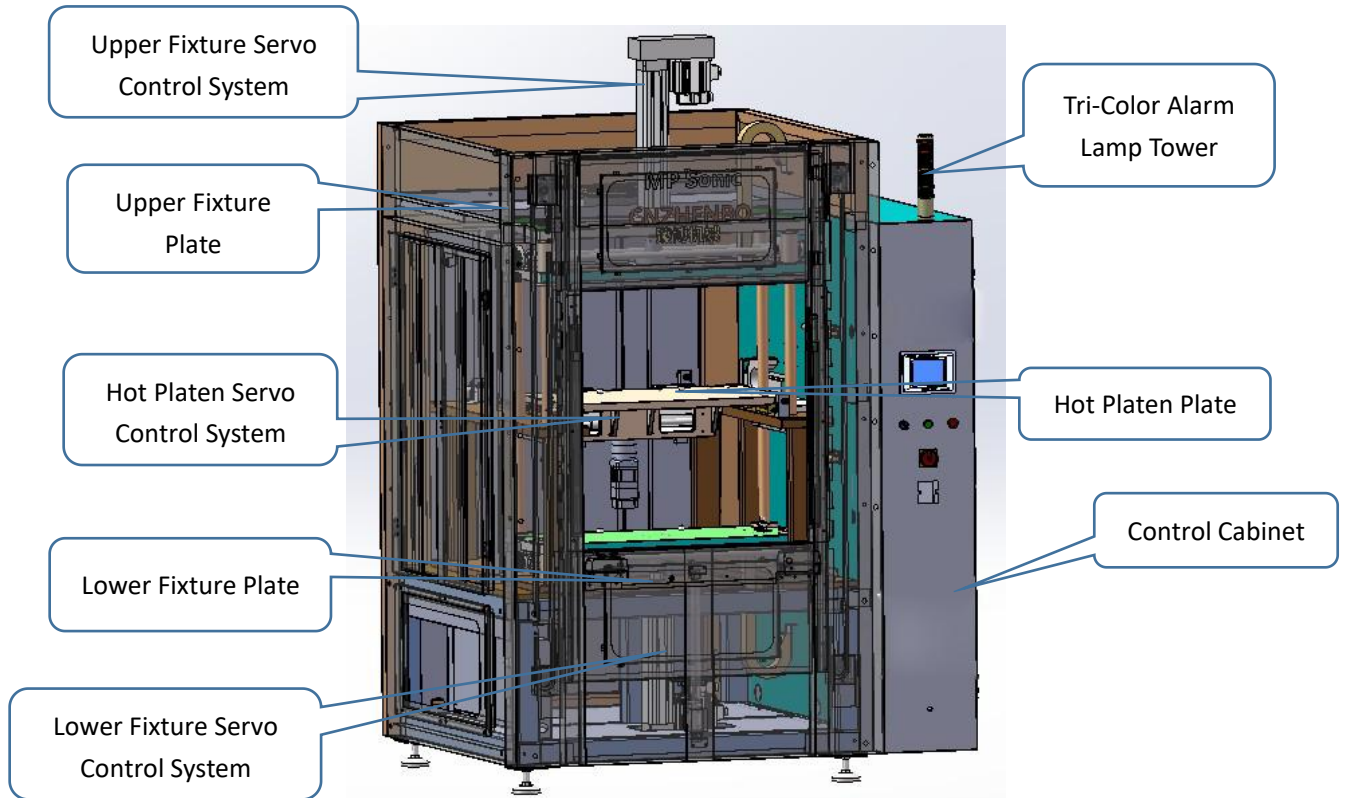
Machine Construction



Front View



Back View



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System system controlled motion action:

1. Upper fixtures, lower fixtures and hot platen motion controlled by independent servo motor system in high precision and fast speed;
2. Upper fixture and lower fixture and lower fixture motion guided by precision linear rods in high precision, equipped with gear&gear bars for motion stability during long period.
3. Hot Platen motion is guided by linear way in high precision.
4. Tooling mounting plates is casting made by CNC with pre-deformation design and process to ensure its precision in stability.
5. Machine frame is fabricated by steel squire tube with precision process, machine is stable during long period.
6. Machine closure is made by cold rolled plate with painting in while color.



Safety Protection:

1. Alarm system during operation all around;
2. Auto door and optical fence at front side;
3. Safety sensor protected door at others side;
4. Double Start buttons design avoid hurting hand during operation.

Optical Fence Protection

Auto Front Door

