

# HOT PLATE WELDING MACHINES

## Application

Automobile parts (such as: automotive lights, water tanks, scrubbers, glove boxes, fuel filters, carbon canister, etc.)

Commodities (such as: iron, dust barrel, etc.)

Electronic appliances (such as: washing machine balance ring, washing machine out of the hydrant, batteries, etc.)



## Principle

Hot plate welding utilizes a temperature controlled heat platen assembly, which is introduced between the two parts to be assembled. All items are brought together, and the melting cycle is started. Both halves of the holding fixtures are brought together against stops for the proper amount of seal time and seal depth.



## Special Features

- \* "Plastic molding multiple-directional adjustment mechanism" can be adjusted by Tooling fixture quickly.
- \* Transmission can use pneumatic, hydraulic or servo motor drive.
- \* Can be applied to different sizes of work pieces, no area restrictions.
- \* Can be applied to any welding surface, no special requirements.
- \* Welding plastic surface allows the remaining compensation amount, the welding strength is assured. Should require various materials, adjust the welding procedure.
- \* Smart design to accommodate the desired production.


**Hot Plate Mold**

**Model & Technical Specification**

| Model                             | AHS5030P           | AHS6550P               | AHS8060P               |
|-----------------------------------|--------------------|------------------------|------------------------|
| Machine Dimension L x W x H (mm)  | 1350 x 1300 x 2250 | 1490 x 1470 x 2450     | 1669 x 2350 x 2680     |
| Machine Weight                    | 1.1T               | 1.6T                   | 1.8T                   |
| Upper & Lower Base Mold Size (mm) | 450 x 300          | 655 x 400              | 880 x 650              |
| Maximum Welding Area (mm)         | 300 X 260          | 600 X 400              | 800 X 600              |
| Safety Grating Height             | 440mm              | 440mm                  | 440mm                  |
| Upper Mold Stroke                 | 250mm              | 350mm                  | 360mm                  |
| Lower Mold Stroke                 | 250mm              | 300mm                  | 360mm                  |
| Hot Plate Stroke                  | 300mm              | 450mm                  | 700mm                  |
| Insert Air Tube Diameter          | Dia 12mm           | Dia 12mm               | Dia 12mm               |
| Input Voltage                     | 380V, 50Hz         | 380V, 50Hz             | 380V, 50Hz             |
| Maximum Input Power               | 10Kw               | 20Kw                   | 30Kw                   |
| Equipment Control                 | PLC Control + HMI  | PLC Control + (mm) HMI | PLC Control + (mm) HMI |
| Control Voltage                   | DC 24V             | DC 24V                 | DC 24V                 |
| Air Storage Volume                | 10L                | 10L                    | 20L                    |
| Sensor Test Range                 | 3-8mm              | 3-8mm                  | 3-8mm                  |
| Air Pressure (required)           | 0.5 ~ 0.7Mpa       | 0.5 ~ 0.7Mpa           | 0.5 ~ 0.7Mpa           |
| Maximum Humidity/Room Temperature | ≤80%RH/10~60       | ≤80%RH/10~60           | ≤80%RH/10~60           |
| Noise                             | 85dB               | 85dB                   | 85dB                   |

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