

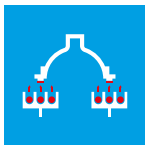


**EMPOWERING**  
TECHNOLOGIES

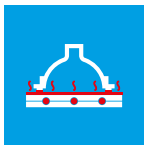


**DUAL SENSOR**

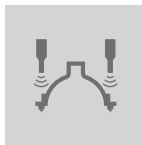
**FULL ELECTRIC**



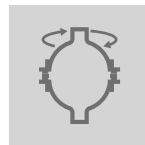
**INFRARED**



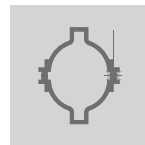
**HOT PLATE**



**ULTRASOUND**



**SPIN**



**LASER**

# HPW RANGE HOT PLATE AND INFRARED WELDING MACHINES

Our range of HPW presses (hot plate or infrared welding) has been designed to meet the most demanding specifications :

- Fast electrical axis
- Short cycle time
- Repeatability of welds

Our solution is a fully digital press that is accurate and fast accommodating both hot plate and infrared technologies.

## GUARANTEED QUALITY

- Robust mechanical design
- Precision of the brushless axis
- Designed, assembled and controlled by our staff

## WELDABLE MATERIALS

PE, POM, PP, PA, PBT, PPA, PPS

## TURNKEY SOLUTIONS



### Pre-project

Expertise  
Co-development  
Feasibility  
Prototype



### Manufacturing

Design - Engineering  
Mechanical  
Assembly  
Automatism



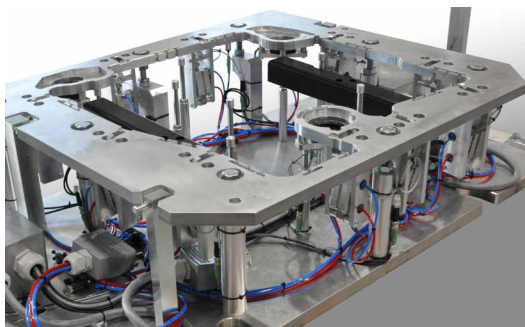
### On site

Installation  
Training  
After sales services

## TOOLING AT ITS BEST

- **Engineering office :**  
Engineering, assembly, development of your specific tools
- **Standard clamping module**
- **Design without mechanical stop**
- **Ergonomic design to facilitate :**  
Production, maintenance and access to tools

“ SONIMAT *designs and manufactures the specific tooling for your machine.*



## CHARACTERISTICS

Perfect mastery of  
stopping values

Repeatability of the  
process

Mastery of penetration  
speed

Optimised productivity  
gain



- 1**
  - Colour touchscreen operator interface
  - Intuitive and user-friendly command menus
  - Recording and display of the welding cycle data
  - Automatic recognition of tools and loading of associated programs
  - Complete process traceability
- 2**
  - Electrical table movement up to 300mm/s - Accuracy at  $\pm 0,02$ mm
- 3**
  - Electric hotplate movement up to 2m/s
- 4**
  - Operator protection
  - Robot communication on front face with SONI-MAT exchange protocol (standard)
- 5**
  - Dual Sensor force control

## HPW RANGE

	HPW 0.25	HPW 0.5	HPW 1.0	HPW 1.5XL
Blade type	Vertical	Horizontal	Vertical	Horizontal
Loading method	Front			
Safety light curtain	Yes			
Depth (mm)	1120	2365	2140	3325
Width (mm)	1225	1365	1545	1805
Height (mm)	1952	2320	2230	2700
Welding force (daN):	250	500	1000	1500
Tooling dimensions (mm)	200x230	400x750	400x460	680x1330
Weight (Kg)	600	1400	1100	3400
Working height (mm)	930 to 1050			
Tension (V)	380/400V 50Hz TP+N+G			
Air pressure (Bars)	6			
Acoustic level (dB)	<80			
Weld line time (sec)	<1.5			
Dimension of heating element (mm)	200x150	350x600	500x600	680x1328
Heating element max travel (mm)	250	420	610	1000
Heating element max speed (mm/s)	1000	2000		
Tooling max travel : superior or right (mm)	150		157.5	200
Tooling max travel : lower or left (mm)	150		157.5	350
Tooling max/speed (mm/s)	300			
Distance tray/slide (mm)	300	698	315	814
Heating zones (3650W/zone)	2	4		
Number of programmes	15			
Defective part management	Yes			
Pneumatic tool management	Yes			

## ABOUT

SONIMAT is an expert in thermoplastic materials welding. We provide our know-how to our customers in various fields of activity (automotive, medical, plastics, and more).

SONIMAT is a pioneer in the development of digital ultrasonic welding ensuring perfect quality and repeatability of plastic assembly and welding.

Since 1999 SONIMAT has been using digital ultrasonic generators in order to obtain better control of the process and optimum plastic welding quality.

**Beyond ultrasonic welding, our expertise covers welding processes using rotation, hotplate, infrared and laser technologies.**

From design to production of your elements, processes and machines, SONIMAT technicians and engineers provide a quality service and tailor-made responses fully adapted to your needs and requirements.

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***“To ensure your specific needs are met, our standard product ranges are fully customisable.”***

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## OPTIONS

SONIMAT provides many different options for the range of hotplate and infrared welding.

	HPW 0.25	HPW 0.5	HPW 1.0	HPW 1.5XL
Additional heating zones	-	X	X	X
Screen on articulated arm	X	X	X	X
Side roller shutters	-	X	-	X
Remote control module (EWON)	X	X	X	X
Customer specific painting	X	X	X	X
Turntable	-	X	-	X
Communication bridge (supervision)	X	X	X	X
Hatch and sensitive edge	-	X	-	X
Translation of the technical file in all languages (excluding French)	X	X	X	X
Machine approval by accredited body	X	X	X	X
Removable screen for installation on 2 sides	X	X	X	X
Robot communication	X	X	X	X

