



EMPOWERING
TECHNOLOGIES

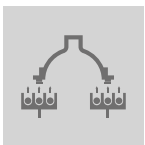


MADE IN
FRANCE



DUAL SERVO

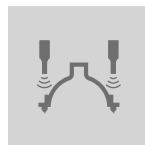
FULL ELECTRIC



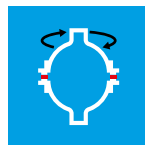
INFRARED



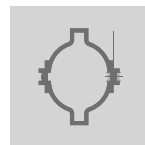
HOT PLATE



ULTRASOUND



SPIN



LASER

RSW RANGE DUAL SERVO-SPIN WELDER

A SONIMAT SOLUTION

Our range of RSW machines (spin welding) has been designed to meet the most demanding specifications :

- Accurate angular orientation and collapse distance
- Reduction of cycle time
- Repeatability of welds

We fulfill those criteria with a dual servo welder.

GUARANTEED QUALITY

- Robust mechanical design
- Precision of the electric axis
- High accuracy of the rotary drive
- Designed, assembled and controlled by our staff

SPECIFIC MARKETS



Automotive Medical Consumer goods

INTEGRABILITY

- On modern automated production lines

Our machines have been designed to work as stand-alone stations, or to be integrated on automatic assembly lines with a robot in front to load / unload components. Ergonomics and operator safety concepts are more than fulfilled.

WELDABLE MATERIALS

POM, PPA, PE, PP, PS, PBT, PA, ABS

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

High penetration
linearity

Increased
productivity gain

Column available
as stand alone
with connection
and electrical box

1 Color interface

- Intuitive programming
- Displays of weld curves
- Recovery of production data

2 Mechanical design

- ± 0.01 mm accuracy of Z-axis position
- ± 0.1 degree rotation accuracy
- Column rigidity

3 Integrated management of tooling

- Tooling kinematics
- Dual sensor control
- Integrated pneumatic cabinet
- Automatic tool recognition

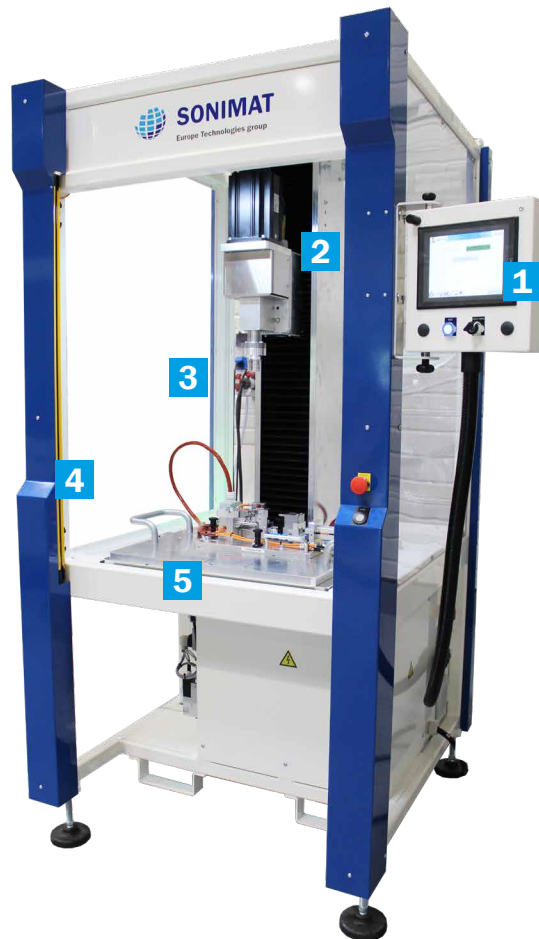
4 Open chassis for small and large pieces

5 Mobile protection screen

- Fast opening / closing via electrical control
- 3 transparent sides and sensitive edges

EXCLUSIVE !

Up to 450 mm stroke for greater versatility and easy loading / unloading of even more complex assemblies.



	RSW 5
Dimensions HxLxP (mm)	2350x1000x1300
Column distance / head axis (mm)	215
Base plate / head low position distance (mm)	173
Base plate / head high position distance (mm)	623
Clamping force (daN)	250
Motor torque (rated Nm)	15.9
Motor torque (peak Nm)	47.7
Column stroke (mm)	450
Spindle power (kW)	5
Spindle speed (rpm)	3500
Descent speed (mm/s)	300

OPTIONS

SONIMAT provides various options for its range of rotary welding machines (RSW).

- Turntable
- Robot connection socket
- Communication bridge
- Translation of the technical file in all languages (excluding French)

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.

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

