



Welding machines

easy, intuitive, connected

Mecasonic ultrasonic welding Omega 4 range machines allow you to weld thermoplastic parts in a precise and modular way. The numerous inspections carried out during the welding process allow welded parts of high quality to be obtained.



To meet your requirements. Mecasonic provides you with three models of machines. Each one can be adapted to your specific needs with an interface system allowing you to manage: the soundproof cabin, rotating table, transfer, manipulator, robot, automatic production line, etc...

The operator

These machines have been developed with constant attention paid to providing the operator with **ease** of use as well as ever greater safety. A dedicated safety controller is built into the welding machine.

Productive

Its starting self-control, its warnings if the machine is lacking air, its detection of the beginning of part movement, its production monitoring, specifying the state of the welded part, etc. are all elements that make the Omega 4 an intelligent machine.

High

Its high connectivity (Ethernet, OPCUA server, remote VNC screen, USB port etc.) allow the Omega 4 to be used in a highlycommunicative environment.

Reactive The Omega 4 provides

The OMEGA 4 is a 10"

touchscreen with a

simple, multilingual

several welding phases (2 for A and 12 for S and X), up to 50 programs depending on model as well as 10 welding modes, 3 of which are part of the Reactive Welding System (RWS), exclusive to Mecasonic. It is the reaction of the part thatdetermines continuity of the weld.

Full

The Omega 4 X provides you with even more functions due to its proportional valve, among others, that allows you to **control** the pressure for each program and provides the possibility of using two holding phases.

20 kHz 1000W 1500 W 3000W* 1000 W 30 kHz 500W 400W

equipment

Manual

Pulse touch



as saving programs, welding modes, amplitude management, for a repeatable and quality result. It also provides the possibility of connecting manual welding machines. Frequency



Pencil & gun Manual welding equipment, to be connected directly to the generator, allow **precision**, **fineness** as well as high operating speed. Due to their ergonomics, they are frequently used to make spot welds in parts with areas that are difficult to access

From our industrial site in Juvigny in France... We manage our activities

The presence of our various partners on every continents allows us to extend our area of activity and provide an effective, local service to our customers anywhere in the world.

on local and international markets.



Great Britain Argentina Belgium Brazil

China

South Korea

Denmark

Spain Finland Indonesia Israel Italy Japan Malaysia Morocco Mexico

Poland

Portugal

Netherlands Philippines

Singapore Slovakia Slovenia Sweden Thailand Tunisia Turkey USA



+33 (0)4 50 877 316

or even for small production runs. Their reduced weight allows them to be transported easily to our various assembly points and for them to be used



Technosite Altéa 234 rue Georges Charpak 74100 Juvigny France



mecasonic.com

contact@mecasonic.com







