

ULTRASONS / ULTRASONICS

INTEGRATORS RANGE





mecasonic.com



Offreurs de solutions

Founded in 1969 for the manufacture of ultrasonic welding equipment, MECASONIC joins the Crest Group in 2000 and becomes one of its technology centers by developing six welding technologies: ultrasonics, spin, hot plate, vibration, laser and hot air.

Our leadership is fueled by our ability to innovate and meet the expectations of our customers in sectors such as food, automotive, cosmetics, household appliances, electronics, recreation, medical, metals, food and beverage. packaging, textiles and many more.

Member of the French alliance industry of the future, and labelized as suppliers of 4.0 industry solutions, we are also a connected player of the 4th industrial revolution to become.

Generators

Our generators analyse the power requirements of an acoustic assembly, ensuring optimal welding.

Pulse One >

- Small size
- Carterised generators can be controlled by PLC
- 7 Inputs/Outputs
- Can be switched via RS 485 interface
- Easy to fit
- Can be connected to Mecaview monitoring software
- Led indicator confirming «Mains on», «Ready», "OVL" and "US active"

Pulse touch

This carterised ultrasonic generator comes with a variety of welding settings including program memory, welding modes, amplitude control, which enable repeatable guality results. Manual welding devices can also be connected.

W MECASOHI Attest & and the state Palse

P | S eтоисн

>

			HACKSTAR
		1 2000	
		1.2.24	-
1	50		

MECASONIC

Palse

50

 $P_{\bullet}|_{SQ}$

ONF

3 -----

Frequency		Power	range	
20 kHz	1000W	1500 W	2000W	3000\
30 kHz	500 W	1000 W		
40 kHz	400 W	800W		

- Fitted with a high-resolution touch screen
- Simple, guick, intuitive programming
- 13 Inputs/Outputs

387,5 × H 105,5 × D 290,5 mm

- Indication of power and frequency when idle
- Tracking of results with alarm signal
- Multi-program (x8)
- Programmable US start and stop ramps

Mecaséquence

Mecaséquence makes it possible to supply until 10 acoustic stacks using a single generator.



Pictures are not contractual



Acoustic stack

For a high quality weld in all types of production lines. It is composed by an emiter, a booster, and a horn.

Convertors



Emiters (or convertors) are available in 20 KHz,30 KHz and 40 KHz, with optional housing. Lemo or AMP connexion.

Boosters



Boosters are available in 20KHz, 30 KHz and 40 KHz

Amplitude distribution in acoustic stack



Converts electrical into mechanical energy.

⁽²⁾Booster Amplifies mechanical vibration.

Horn Specific to each application, focussing the vibration onto the weld seam.



Modules

The Ultrasonic modules are compact units, easily incorporated into your production lines. They are intended for designers of special machines and integrators. The modular system is essentially made up of 3 items: **generator + acoustics + module**

 \mathbf{v}

The linear encoder (as an option depending on the module) enables optimal control and movement of the welding head, for quality results. Our engineers use computational methods to design sonotrodes to meet the requirements of all your welding applications.

Frequency	Diameter of Desi cylinder	Designation	Encoder of the module operated	Movement of the module operated by the PLC / Controller	Electrical stop in the module operated by Pulse Touch/ PLC	Ultrasonic function of the module operated by Pulse One / Pulse Touch	Stroke in mm	Dimensions with cable in mm (for information)		
			by the PLC / Controller					•	1	h
	Ø 40	ML	Option	Х	Х	Х	100	472	78	193
	Ø 25	Compact Unit		Х	X*	Х	25	140	40	60
30 kHz	Ø 25	Compact Unit		Х	X*	Х	50	180	40	60
	Ø 32	ML	×	Х	Х	Х	50	366,5	58	168
	Ø 25	UBC		Х	Х	Х	25	350	50	67
	ø 40	ML	Option	Х	×	×	100	472	78	193
	Ø 25	Compact Unit			X*	×	25	140	40	60
40 kHz	Ø 25	Compact Unit			X*	Х	50	180	40	60
	ø 32	ML	Х	Х	Х	Х	50	366,5	58	168
	Ø 25	UBC		Х	Х	Х	25	350	50	67



* or IO Link sensor allowing to access the parameters by PLC.

Examples of applications ~~

Automotive, cosmetics, medical etc.



From our industrial site in Juvigny, France...

We are steering operations linked to our local and international markets. The support of our various partners across all five continents has helped us expand our field of activity and offer our clients personalised service effective throughout the world.



Argentina
Belgium
Brazil
China
Denmark
Finland
Germany
Indonesia

Italy Japan Malaysia Morocco Mexico Netherlands Philippines Poland Portugal Singapore

Israel

Slovakia Slovenia South Korea Spain Sweden Thailand Tunisia Turkey United Kingdom USA

Welcome line +33 (0)4 50 877

+33 (0)4 50 877 300 After sales service +33 (0)4 50 877 316

9

Technosite Altéa 234 rue Georges Charpak 74100 Juvigny France



mecasonic.com contact@mecasonic.com



