

**ULTRASOUND GENERATORS  
FOR PIEZOELECTRIC TRANSDUCERS  
IN MEDICAL APPLICATIONS**

# GENUSmed



## Low frequency ultrasound generators

In common usage we tend to indicate, by the ambiguous term of ultrasound generator, a power electronic circuit for piezoelectric transducers which produces intense mechanical oscillations (more than 20 kHz), normally used for the cleaning of any object whose shape makes it difficult, if not impossible, the traditional cleaning methods.

Armed with an important experience gained over the years designing and manufacturing ultrasonic power generators in many areas, we have developed *GENUS*, an innovative microprocessor technology which, operating in the frequency band from 20 kHz up to 60 kHz, controls and handles a wide range of transducers.

Many are the possibilities of use:

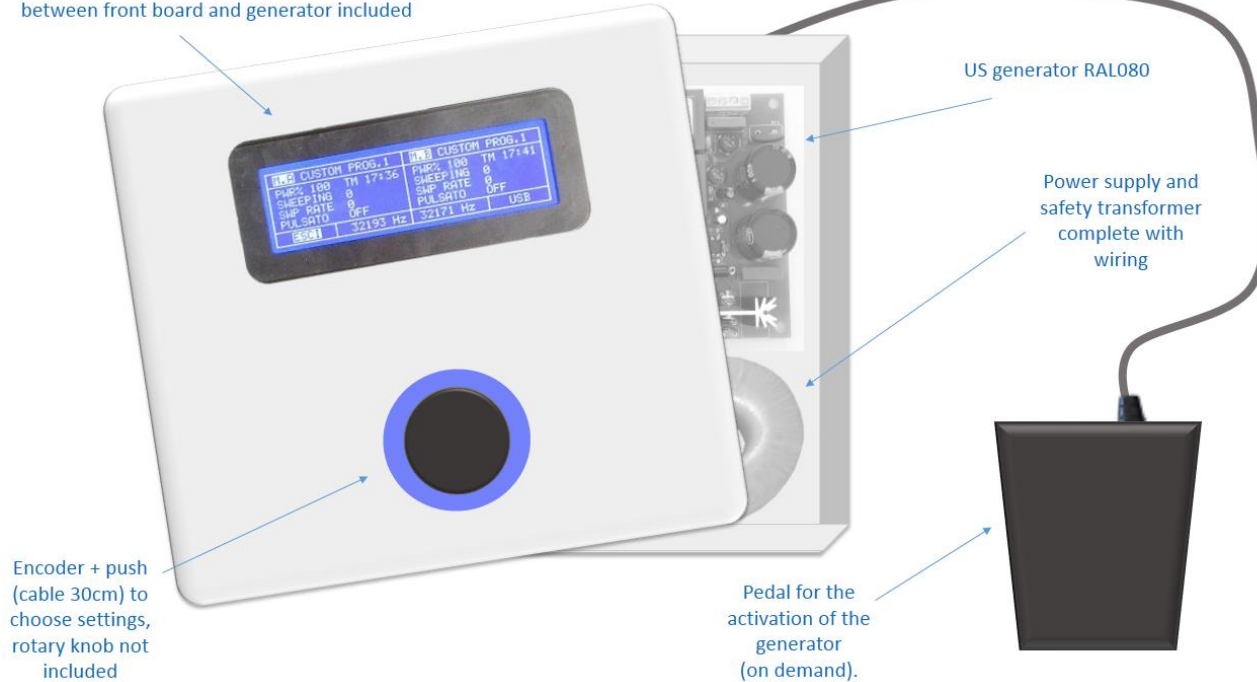
- Ultrasonic industrial washing and cleaning of objects and complex parts;
- Washing of medical equipment (health, outpatient and veterinary facilities);
- Dental equipment (scalars for tartar and devices for dental surgery);
- Aesthetic medicine and physiotherapy;
- Non-destructive analysis of materials;
- Washing and cleaning in the jewelry, watchmaking, optical industry;
- Washing and cleaning of laboratory instruments (scientific, biological, analysis laboratories);
- Restoration of works of art;
- Food treatment and homogenization;

Beside these, the experience gained in this technology makes us the ideal partners also for the development of special applications on the customers' request.

In this catalogue we will introduce our ultrasound medical cavitation kit *GENUSmed*.

# Control kit for ultrasound medical cavitation GENUSmed

User interface kit with graphic display 240x64, wiring between front board and generator included



GENUSmed kit for medical applications (box and hand pieces not provided)

GENUSmed is the complete kit for the control of applications such as medical cavitation at low frequency (22-60 kHz). It is already inclusive of all components: the manufacturers, to whom it is addressed, will provide to complete the final product with their own box and hand pieces (max 2), otherwise they can send us these components for the final assembly and tests.

## TECHNICAL FEATURES of the ultrasound medical cavitation KIT GENUSmed

GENUSmed RAL080	
Power supply	230 Vac - 50/60Hz
Visualizations	LCD graphic display 240x64*1
Powers handled	50-100W
Setting of the power output	Yes
Control system with microprocessor	Yes
Frequency range	22-60 kHz
Functionalities	5 standard programs*2 + 8 free custom programs
Automatic frequency coupling	Yes
Floating Us output	Yes
Dimensions in mm	175 x 112
Rohs compliant	Yes
Start&stop switching	Yes
<b>Notes:</b> *1 - Display features: monocromatic blue/white; Encoder + push to surf the menu and set the parameters, EEPROM memory, languages availables: english and italian; Real Time Clock with backup battery; acoustic buzzer; optional USB module to store data on external memory;  *2 - Predefined standard programs: abdomen/hips, gluteus/thighs, knees, arms, ankles.	



The generator RAL080, heart of the ultrasound cavitation kit

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