

NEXT LITE RACK



THE GENERATOR

NEXT LITE RACK ultrasonic generators are designed for installation in automation lines, special machines and automated welding and cutting systems. They are able to perform demanding welding and cutting operations, such as the welding of thermoplastic materials and shaped components, but also the cutting of technical and "non-woven" fabrics or food products. Thanks to their small size they can be easily integrated into electrical cabinets. Our patented multi-frequency technology makes it incredibly versatile and it can be used with stacks of different frequencies, 30, 35 and 40 kHz.

TECHNICAL FEATURES

- Frequencies : 40 35 and 30 kHz
- Max power : 1200 W
- Autotuning and automatic frequency scanning
- Working mode : Free, Timer, Energy, Joule, Cooling, Test
- Communication interface : display, Modbus RS485 RTU, Profinet
- Live streaming of up to 8 parameters
- Graphic display 128 x 64 pixel
- Tact switch arrow keys and user friendly menu
- Emi filter
- Active PFC control circuit
- Input voltage : 230/110 V – 50/60 Hz
- Connectors : Lemo, Removable terminal block
- Working amplitude value : 50 to 100 %
- Editable value of Voltage to piezo ceramics
- Interface connectors : I/O DB25 + cable
- IEC connector with bipolar switch and fuse
- USB for quick update
- Status indicators with 3 leds on front panel
- Dimensions : 260 x 80 x 223 mm
- Weight : 5 Kg



STPN40 PNEUMATIC STRUCTURE

The pneumatic structure STPN40 is ideal to process synthetic fabrics. This special system is composed of an aluminium frame to be easily integrated into pre-existing machines.

It is equipped with a 40 kHz aluminium converter, a steel sonotrode, a counter-wheel positioned on a pneumatic cylinder and a cooling system.

This cutting and welding structure can be mounted on looms/stenters etc. and offers the possibility of combining cutting and welding operations in a single process.

STPN40 is used for continuous selvedge cutting of synthetic fabrics.

THE KIT INCLUDES:

- High performance 40 kHz aluminium converter
- 40 kHz hardened steel sonotrode. Available models: ogiva, half moon, machete.
- Hardened steel cutting and welding counter wheel
- Available cutting angles: 60° 70° 100° 110° 120° 130° 140° 150°
- Anti-rotation cylinder – strike 20 mm
- Aluminium frame dimensions: 342 x 70 x 110 mm
- Weight: 2,5 Kg



CONTINUOUS CUTTING AND WELDING FRAME STT40

This aluminium frame has been designed for quick and easy installation on looms, stenters and calenders, for cutting and welding of the selvedge.

depending on the type of fabric to be processed and the result to be obtained, up to 8 counter-wheels with different angles can be installed.

The structure has an integrated cooling system, to avoid overheating of the sonotrode that is in contact with the fabrics.

the system can be implemented in pre-existing lines and for this reason this product is available for both vertical and horizontal cutting.

THE KIT INCLUDES:

- High performance 40 kHz aluminium converter
- 40 kHz hardened steel sonotrode. Available models: ogiva, half moon, machete.
- Hardened steel cutting and welding counter wheel
- Available cutting angles: 60° 70° 100° 110° 120° 130° 140° 150°
- Aluminium frame dimensions: 256 x 93 x 146 mm
- Weight: 3 Kg



AVAILABLE CONVERTERS

SONIC ITALIA provides up to 7 types of converters to be integrated on automatic lines and special machines, which can be used in continuous and step by step processes.

- Available frequencies: 40 – 35 – 40 kHz
- Materials: Aluminium, Titanium

