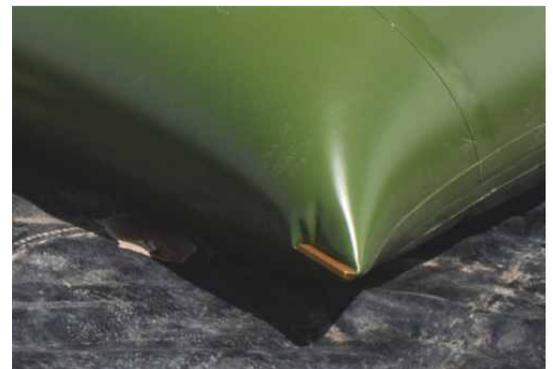
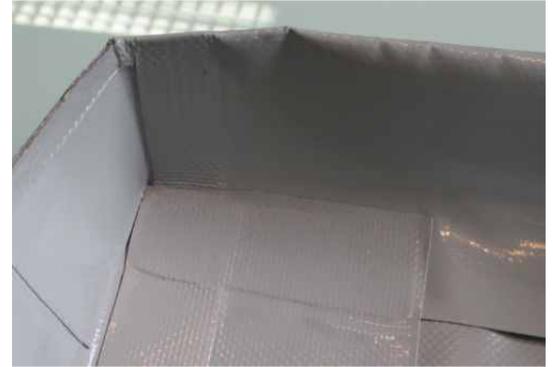


CORNA

3D shapes / column design HF welder

- Special purpose 3D HF welding
- Column design for easy directional access
- Small footprint design
- Ability to weld various multi-dimensional shapes
- Square, triangular, oval or special electrodes
- Inner or outer corners joining with one weld cycle
- Multilayer fabric sealing with one operation
- Ergonomic and simple to use



ZEMAT Technology Group is a leading European design and manufacturing company of high frequency welding machines.

CORNA - quick overview

- Special purpose column design HF welding machine **CORNA** is designed for making small shape multilayer (up to 8 layers) welds for technical textiles products where conical, corner and multidimensional shapes are required.
- The tooling (electrodes) can have custom shapes - rectangular, round, triangular or oval - depending on the final product look. **FlexEL** flexible electrode can be also used for changeable layers welds (e.g. going from 2 layer weld to 8 layer weld and coming back to 2 layer weld again). Connecting 3D corners can be achieved easily with the column design of the welding head and footing.
- Operation is easy and intuitive. Machine is equipped with free standing control panel and HMI touch screen. It can also be put on wheels for ease of movement and placing in a desired, for the comfort of production, place.
- Hi-Q3** new generation reliable HF generator with 4kW of output power provides consistent welds and minimum RF exposure for operator. Machine is made to CE regulations and tested according to **ISO17025**.

Main Applications:

- Multi-layer technical textiles PVC, PU, TPU
- Inner and outer corners for membranes and tents
- Corner shapes for side/roof truck covers
- Caps for containment pools & oil booms
- Tensile structures triangular fastenings and corners
- Water and fuel bags reinforcements
- Handles and grips attachments

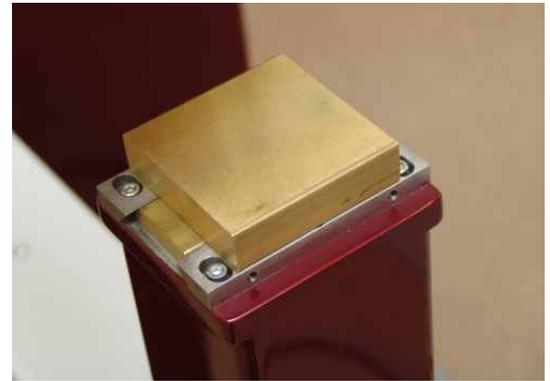
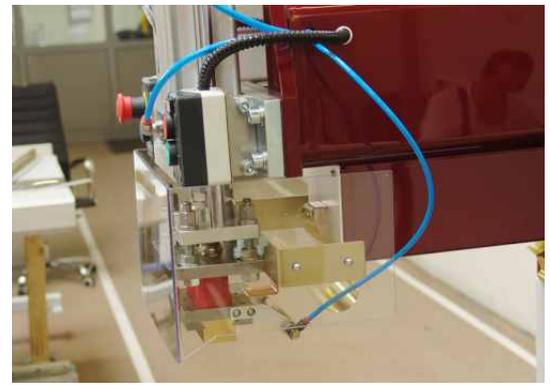
Features:

- Ergonomic design and flexibility of use
- Small footprint for easy setup in any factory
- Hi-Q3** new generation reliable HF generator
- Safe low RF emissions and grid filter
- Easy movement with optional wheels
- Square, triangular, oval or special shape electrodes
- Simple setup and operation
- Multilayer (up to 8 heavy-duty fabric) HF welding
- FlexEL** electrode usage for step-up layer welding
- HMI touch screen sealing process control
- Fully CE, EMC, FCC and OSHA compliant, ISO17025 tested

Technical specification

CORNA

Output power	4 kW
Installed power	6 kW
Main fuse	25 A
Power supply	3x400 V; 50 Hz
Working frequency	27,12 MHz ± 0,6%
Power tube	air cooled metal-ceramic triode
HF Auto-tuning System (ATS)	standard
Antiflash system	standard
PLC control panel	remote panel touch screen HMI
Electrode pneumatic press (at 0,4 - 07 MPa)	80 - 300 kg
Compressed air consumption	12 nl/cycle
Electrode platen working stroke	150 mm
Electrode platen dimensions	100 x 110 mm
Welding surface (max)	120 cm ²
Weight	400 kg
Dimensions	740 x 1500 x 1960 mm



Custom built tooling and electrodes available upon request. Each machine is built according to customers needs. We can modify and adjust any parameters if required at additional cost.

Our machines fully comply with CE regulations for EMC, FCC and OSHA standards.

Contact:

Brukowa 26, Lodz, Poland
phone: +48 42 632 84 84
e-mail: zemat@zemat.com

 /ZematTG  /ZematTG

www.zemat.com