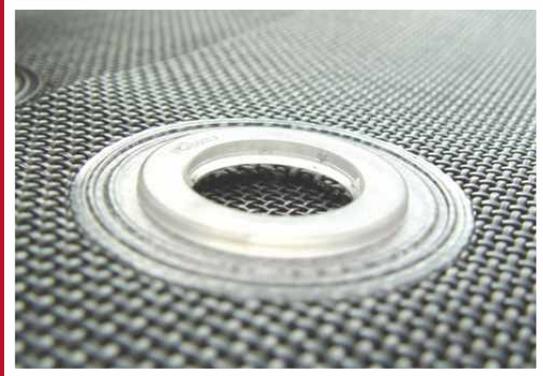


# RINGA

## LDMOS Automatic Punch/Weld plastic eyelets HF welder

- Universal usage for PVC, PU grommets
- High weld precision and efficiency
- Small footprint and great work ergonomics
- Perfect repeatability of each weld parameters
- No vacuum HF power tube. Substantially increased generator life time!
- Energy efficient RF generator with smooth power regulation
- High resistance to vibration, shock, enabling the use in mobile applications
- Easy action through pedal/toggle to reduce operator fatigue
- Protective fixed guard - working table HF shielded and filtered
- Outperforms metal grommets in flexibility and strength
- With HF welded eyelets no overlapping or hemming is required
- Durable in harsh environments. Will not rust and leave stains



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HF Welders - Impulse Welders - Heat Sealers - Boxmakers - Die Cutters  
Thermoformers - Hydraulic and Pneumatic Presses - Custom machines



## Quick overview

■ RINGA machine is integrated HF welder with automated pneumatic feeding/punching press for large volume welding of plastic eyelets onto various technical textiles. Compared to metal grommets, welded plastic eyelets will fuse together with the fabric and result in a joint that is significantly stronger and can withstand significantly higher pull forces. This is especially true when working in mesh materials. RINGA machine offers single side HF welding for PVC eyelets of various diameters e.g.: 11/27, 13/32, 15/37, 19/43mm (inside/outside) with customized electrodes.

■ RINGA punch/weld machine is designed to work with Carmo PVC and plastic eyelets which are typically used for reinforcement of holes in foils and fabric in building wraps, banners, outdoor advertisings, tarpaulins, tents, billboards, tensile structures, netting, water sport equipment.

■ Carmo eyelets are made from a special formulation and are used worldwide for strong, flexible and durable reinforcement of holes. Clear, grey, white. Other colours available upon request. PVC eyelets offers more advantages for the outdoor banner producer, e.g.: no hemming required, the only solution for single layer vinyl. "Invisible" placement of eyelets on the back of the banner is possible. They will not rust, tear through the reinforced fabric and their tensile strength is much greater than metal eyelets.

## Applications

- Tarpaulin and building wraps
- Containment pools, oil booms, swimming pool covers
- Billboards, large print outdoor advertising
- Tents, tensile structures and shadings
- Print netting and mesh fabrics
- Water sport equipment

## Features

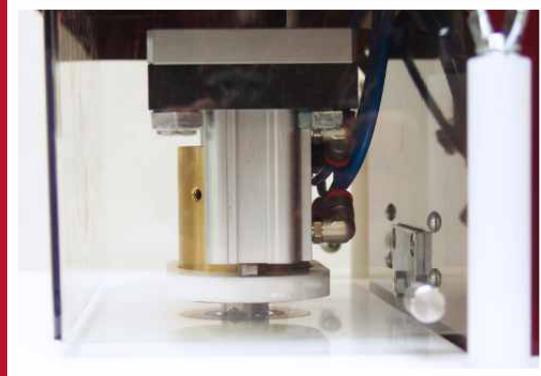
- Automatic eyelets feeding with sleeve loading
- Punching and HF welding in one operation
- Energy saving RFT Gen7 ECO HF Generator
- Standard working frequency: 27MHz
- Impedance output of generator: 50 OHM
- RF power output efficiency at 80-90%
- Ultra-fast reflected power control
- Dynamic Auto Tuning and Arc protection
- Extremely short cycle time (2-3 sec per grommet)
- Punching is easily done through 4-6 layers of fabric
- Perfect repeatability of each weld parameters
- Low power consumption and real time power output recognition
- No vacuum HF power tube. Substantially increased generator life time!
- Very limited heat dissipation preventing overheating
- High resistance to vibration, shock, enabling the use in mobile applications
- Low noise machinery – easy maintenance
- Very small footprint and easily moveable on wheels

Custom built tooling and electrodes available upon request. Each machine is built according to customers needs. Parameters can be modified or adjusted - if required - at additional cost.

### Technical specification

### Ringa

HF output power	1000 W
Installed power	1200 W
Power supply	230 V, 50Hz
Working frequency	27,12 Mhz ± 0,6%
Antiflash system	ultra-fast solid state ZTG AntiFlash™
Time control panel	digital
Electrode pneumatic press	4-6 bar
Compressed air consumption	10 nl/cycle
Electrode stroke	up to 50 mm (ability to stop at any height)
Electrode lenght	50 mm
Work table dimensions	600 x 250 mm
Space behind electrode	100 mm
Weight	180 kg



Zemat Technology Group Ltd. **60 YEARS STRONG** 1957-2017

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