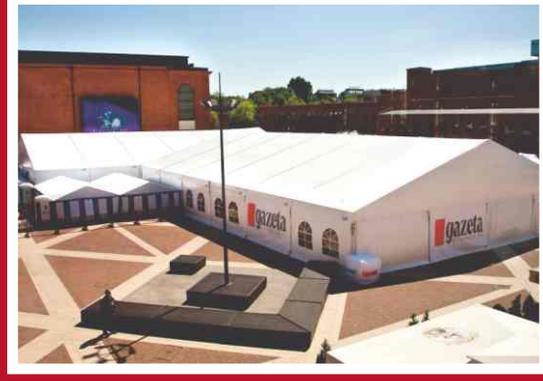
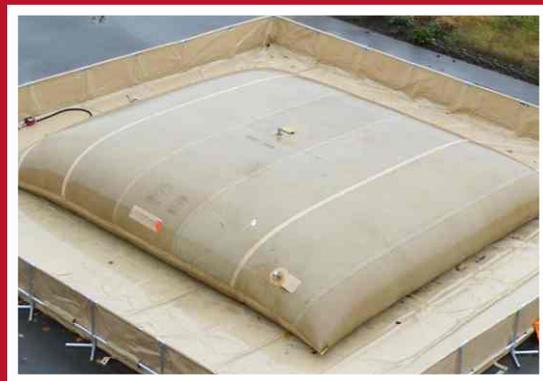


SIMPLA

High Frequency Welder

for tarpaulin, tents, billboards, oil booms, truck covers etc.

- Practical functionality with precision HF welding head
- High efficiency HF weld cycles 6/10/15/20kW output power
- Sealing efficiency from 1kW: up to 40cm² for standard PVC materials
- Universal usage for PVC, PU, TPU, reinforced technical textiles
- PE, PP weldability with optional Impulse electrode
- Easy material positioning with deep trough behind electrode
- C-frame rolled steel structure for excellent strength & work ergonomics
- Swing arm 10" touch screen color HMI panel



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

CE Made in EU



Quick overview

- SIMPLA HF welder is designed specifically for production of small and large format tensile structures, membranes, tarpaulin, tents, oil booms, truck covers, swimming pool liners & covers, airline hangars, large billboards, fast doors, side curtains, etc. This basic design machine can be fitted with special impulse electrode for welding non-HF weldable fabrics made of PE and PP, as well as FlexEL 'soft' multilayer welding electrode and curved HF electrodes for sealing round window profiles made of clear PVC and any other shapes requiring precision welding.
- SIMPLA is equipped with special deep and wide trough behind the electrode for material storage and handling. Machine has optional smooth glide wheels for easy movement in-around welded fabric, or relocation to a desired place in manufacturing hall.
- Full advanced programming functionality, including ATSTTM autotuning and WCSTM systems is achieved thanks to onboard PLC integrated with 10" touch screen HMI on a swing arm for easy access to welding area. SIMPLA machines have HF power outputs from 6 to 20kW for heavier production loads and reinforced heavy duty fabrics, effectively providing between 240-800cm² of welded surface with one weld cycle.

Applications

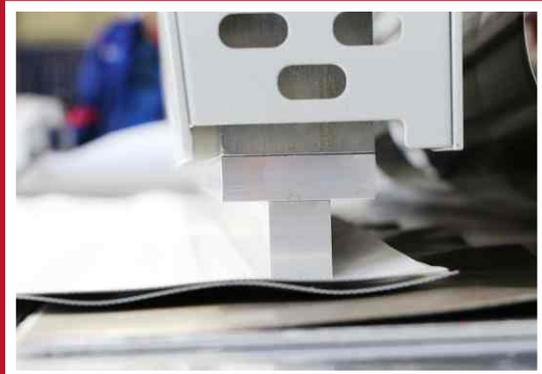
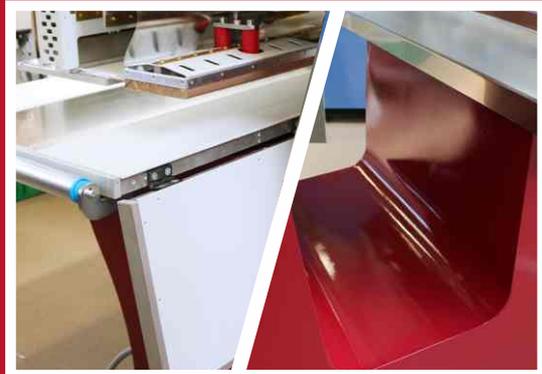
- Small and large format technical textiles PVC or PU coated
- Tensile structures, tents, shade systems, truck covers and side curtains
- Swimming pool liners and covers, oil booms, flood dams and water tanks
- Airport hangars, portable storage structures, containment pools, ground liners
- Advertising signs and large format billboards

Features

- Back table trough and deep space behind electrode for easy material handling
- Built in electrode illumination and linear laser guides
- Fully automated weld cycles with unlimited weld cycle recipes memory
- ATSTTM autotuning HF power output system
- Simple to setup and easy to operate, intuitive touch screen HMI
- High production capacity with fully programmable PLC
- Swing arm HMI for easy 270° access to welding area
- Backflow HF emission protection
- Quick release HF electrodes up to 1200mm in length/up to 50mm wide
- ZTG SafeDOWNTM anti-crush safety system
- New generation Hi-Q Gen5 EcoHF stable and efficient HF generator
- Ultra-fast sensitive ARC sensor & output overload protection
- Manual, semi-automatic and automatic operation
- CE, EMC, EU, FCC and OSHA compliant

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	Simpla 6 kW	Simpla 10 kW	Simpla 15 kW	Simpla 20 kW
HF output power	6 kW	10 kW	15 kW	20 kW
Weld surface (up to 40cm ² from 1kW)	≤240 cm ²	≤400 cm ²	≤600 cm ²	≤800 cm ²
Installed power	9 kW	15 kW	22 kW	30 kW
Power supply	3x400 V ; 50Hz			
Main fuse	32 A		40 A	
Working frequency	27,12 MHz ± 0,6% Hi-Q Gen5 HF Generator			
Electron tube	air cooled metal-ceramic triode			
Antiflash system	ultra-fast solid state ZTG AntiFlash TM			
Autotuning system	standard, ZTG ATST TM			
Control system	PLC and 10" touch screen HMI			
Electrode length	1200 mm (optional: 1500 mm)			
Electrode pneumatic press (at 0,8 MPa)	1000 kg		1600 kg	
Electrode pressure control (0,1-0,8 MPa)	200 - 1000 kg		280 - 1600 kg	
Electrode stroke	up to 160 mm (ability to stop at any height)			
Work table (without trough)	1600 x 800 mm			
Space behind electrode (with trough)	840 mm			
Trough size	W 400 x H 500 mm			
Electrode mount	QuickGRIP, pneumatic			
Grounding foot	standard, pneumatic drive			
Footprint (outside dimensions)	L 1970 x W 1700 x H 2400 mm			
Weight	1100 kg			



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

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