

TARPA series HFW

Stationary High Frequency Welder  
for Tarpaulins, Tents, Billboards, Signs, Truck covers

- C-frame welded heavy duty structure
- Precision straight bar welding
- Automated HF weld cycles
- Easy setup and operation
- Universal usage for PVC, PU, Tarpaulin film
- SafeDOWN™ operator safety system
- TZG AT™ Autotuning and ultrafast ARC limiter
- Smooth switchable power output settings
- Touch screen programmable HMI / PLC



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ZEMAT TG is a leading manufacturer of industrial application high frequency welding machines. Our stationary TARPA HF Welder is designed specifically for production of large format tarpaulins, tents, shading systems, truck covers, swimming pool covers, airline hangars, billboards, signs, side curtains and many other general technical fabric joining. Machine can be fitted with special curved electrodes for welding round window profiles made of clear PVC and any other shapes requiring precision sealing. TARPA model is equipped with special quick change electrode holder. Side rolls mounted on the edges of the work table allow handling of large format materials and precision weld positioning for fast production setup as well as ergonomic work space for operator.

With the use of touch screen HMI and programmable PLC operator can easily input multiple weld/seam recipes. TARPA series have HF power outputs from 4kW to 30kW for heavy production loads and reinforced heavy duty fabrics. All these options make this machine a perfect tool for high end production where precision, durability and strength is the key.

ZEMAT TG always puts quality, precision, efficiency and safety first!

TARPA can be easily upgraded and converted into a Keder production machine with the use of special attachment and weld electrode.

### Main applications:

- Large format technical textiles with welds up to 50mm wide
- Tents, shading systems, truck covers, swimming pool covers
- Tarpaulins, airport hangars, side curtains
- Advertising signs and billboards
- Flood dams and water tanks
- Swimming pools, ground liners, ecomembranes

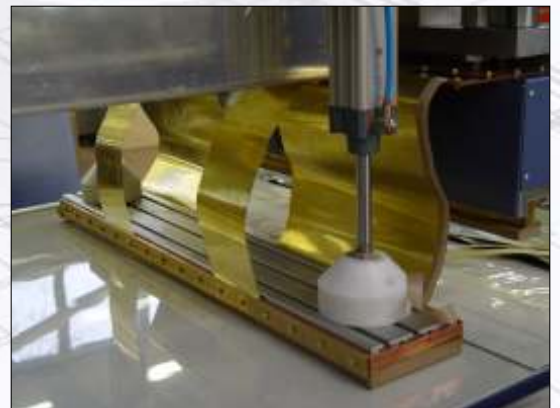
### Technical and Safety Features:

- Precision line and curved welds up to 50mm wide
- Built in electrode illumination
- Automated weld cycles with multiple recipes
- ZTG AT™ Autotuning HF power output system
- Simple to setup and easy to operate
- Work table side rolls for easy material handling
- Backflow HF emission protection
- Output overload protection with warning indicator/reset
- Electrodes up to 1200mm in length
- ZTG SafeDOWN™ anti-crush safety system
- Hi-Q cavity stable HF generator
- Ultra-fast sensitive ARC sensor
- Manual, semi-automatic and automatic operation
- CE, EMC, EU, FCC and OSHA compliant

\*\* Custom built tooling and electrodes available upon request. We have our own in-house tooling shop which will make any electrodes and dies your production requires.

\*\* Each machine is built according to customers needs and production specifications. We can modify and adjust any of the above parameters if required at additional cost.

\*\* Our welders fully comply with CE regulations for EU Radio Frequency Machine Standards , EMC, FCC and OSHA and have EQM European Quality Mark.



Technical Specifications	HF4W	HF6W	HF8W	HF10W	HF15W	HF20W	HF25W	HF30W
Emitted maximum HF output power	4 kW	6 kW	8 kW	10 kW	15 kW	20 kW	25 kW	30 kW
Installed power – maximum	6 kW	9 kW	12 kW	15 kW	22 kW	30 kW	38 kW	45 kW
Power supply	400 V ; 50 Hz	400 V ; 50 Hz	400 V ; 50 Hz	400 V ; 50 Hz	400 V ; 50 Hz	400 V ; 50 Hz	400 V ; 50 Hz	400 V ; 50 Hz
Main Fuse	25 A	32 A	32 A	40 A	40 A	50 A	50 A	63 A
Working frequency	27.12MHz (+/-0.6%)							
Power tube (metal-ceramic triode)	Air cooled metal-ceramic triodes 7T/3CX/ITL series							
Anti-flash system	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
PLC control panel	MITSUBISHI with touch panel HMI							
Electrode pneumatic press (at 0,4-0,7MPa)	250 – 500 kG	350 – 750 kG	350 – 750 kG	350 – 750 kG	500 – 1000 kG	500 – 1000 kG	700 – 1500 kG	700 – 1500 kG
Compressed air consumption max.	20 nl/cycle	30 nl/cycle	30 nl/cycle	30 nl/cycle	38 nl/cycle	38 nl/cycle	60 nl/cycle	60 nl/cycle
Electrode stroke	20 – 160 mm	20 – 160 mm	20 – 160 mm	20 – 160 mm	20 – 160 mm	20 – 160 mm	20 – 160 mm	20 – 160 mm
Electrode length max.	800 mm	800 mm	800 mm	1000 mm	1000 mm	1000 mm	1200 mm	1200 mm
Welding surface each work cycle max.	120 cm²	180 cm²	240 cm²	300 cm²	450 cm²	600 cm²	750 cm²	900 cm²
Welding table dimensions	900x1300mm	900x1300mm	900x1300mm	1100x1600mm	1100x1600mm	1300x2000mm	1300x2000mm	1300x2000mm
Space behind electrode	400 mm	500 mm	500 mm	600 mm	600 mm	700 mm	700 mm	800 mm
Capacitor reducing HF radiation	Stationary Standard - moveable (pneumatic motion)							
Quick release clamp for fast electrode change	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Weight	400 kg	500 kg	500 kg	800 kg	1000 kg	1000 kg	1500 kg	2000 kg