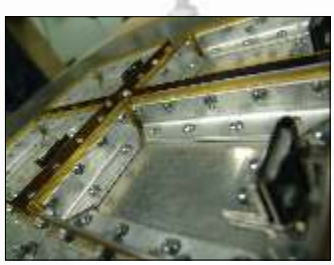
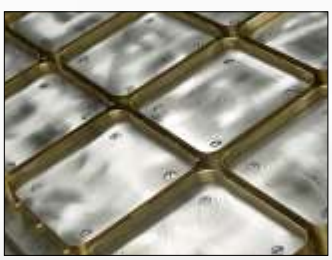
zemat® TECHNOLOGY GROUP

SIGNA series HFPS

High Frequency Welder
single pneumatic shuttle work table

- Welded H-frame steel structure
- Custom size work table and weld platen
- Manual or automatic multiple welds in one cycle
- Side or front pneumatically driven shuttle work tray
- Optional heated electrode platen
- Easy setup and operation
- Universal usage for PVC, PU, PET films
- Fully shielded HF weld cage with side safety gate
- TZG AT™ Autotuning and ultrafast ARC limiter
- Smooth switchable power output settings
- Touch screen programmable HMI / PLC





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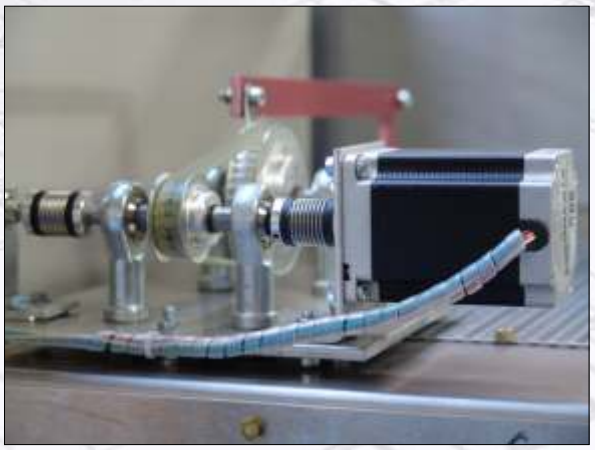
ZEMAT TG is a leading manufacturer of industrial application high frequency welding machines. The SIGNA single station shuttle HF welder is made for various industrial HF welding and sealing applications requiring precision large flat surface for product positioning and complex shape welds.

SIGNA is a perfect machine for production of medical, laboratory, rehabilitation equipment, automotive parts and car interior elements, safety vests, reflective signs, inflatable toys, cosmetics, blister packages, etc. Optional heated electrode platen with temperature presets gives high accuracy for consistent welding of hard PVC/PET foils or PU foams.

Machine is equipped with special quick change electrode holder. Custom built tooling and electrodes are available upon request. We have our own in-house tooling department which will design and make any electrode and die required for any demanding production needs.

With the use of touch screen HMI and programmable PLC operator can easily input multiple weld/seam recipes. SIGNA DUO series have HF power outputs from 4kW to 10kW for heavy production loads and special projects using reinforced heavy duty materials. 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!



Main applications:

- Medical, laboratory, rehabilitation equipment
- Clear plastic blister and clam shell packaging
- Office accessories and promotional items
- Inflatable toys and gadgets
- Safety equipment and protective clothing
- Automotive interiors and parts

Technical and Safety Features:

- Precision welding and sealing with complex tooling
- Automated weld cycles with multiple recipes
- Optional heated electrode holder with temperature presets
- Pneumatic shuttle work trays up to 1200x2000mm ZTG AT™ Autotuning HF power
- output system Simple setup and easy operation
- Safe fully gated HF work area
- Output overload protection with warning indicator/reset
- 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	HF3PS	HF4PS	HF6PS	HF10PS
Emitted maximum HF output power	3 kW	4 kW	6 kW	10 kW
Instaled power maximum	4,5 kW	6 kW	9 kW	15 kW
Power supply	230 V ; 50 Hz	400 V ; 50 Hz	400 V ; 50 Hz	400 V ; 50 Hz
Main Fuse	20 A	25 A	32 A	40 A
Working frequency	27.12MHz (+/-0.6%)			
Power tube (metal-ceramic triode)	Air cooled metal-ceramic triodes 7T/3CX/ITL series			
Antiflash system (electrode protection system)	Standard - Thyristor			
HF Auto-tuning System (ATS)	Optional			
PLC control system	MITSUBISHI with touch panel HMI			
Electrode pneumatic press (press force for 0,4-0,7MPa)	250-500 kG	250-500 kG	350-750 kG	600-1200 kG
Compressed air consumption max.	12 nl/cycle	12 nl/cycle	18 nl/cycle	44 nl/cycle
Electrode platen working stroke	100 mm	100 mm	100 mm	150 mm
Distance (table - electrode platen)	120 mm	120 mm	120 mm	170 mm
Welding table dimensions (effective work space for each station)	400 x 600 mm	400 x 600 mm	400 x 700 mm	500 x 800 mm
Electrode platen dimensions	350 x 500 mm	350 x 500 mm	350 x 600 mm	450 x 700 mm
Weld surface (per work cycle) max.	75 cm^2	100 cm^2	150 cm^2	250 cm^2
Preheated electrode platen	Standard (adjustable 30°C-100°C)			
Protective HF radiation shield	Standard			
Weight	350 kg	400 kg	500 kg	700 kg