

# SUPRA PRO

*Travelling Head High Frequency Welder  
for Stretch Ceilings' PVC Films and Harpoons*

- Precision linear motion with frequency inverter
- Programmable automatic linear weld cycles
- Work table length up to 25 m with optional vacuum system
- High HF weld efficiency and speed of production
- Universal usage for PVC film and harpoon welding
- Easy material positioning table with laser guides
- C-frame strong structure for excellent work ergonomics
- SafeDOWN™ anti-crush safety system
- ATST™ Autotuning system and ultrafast ARC limiter
- Smooth power output settings
- Touch screen HMI and programmable PLC



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Made in European Union



**Zemat Technology Group is a leading European design and manufacturing company of high frequency welding machines and auxiliary processing equipment**

## SUPRA PRO - quick overview

Traveling Head SUPRA PRO HF Welder was developed specifically for production of large format Stretch Ceiling (French Ceiling) interior design elements. The machine is equipped with special high precision linear motion gear controlled by frequency inverter to achieve a perfect continuous weld "invisible seam" weld.

SUPRA PRO HF Welder has universal application for both: PVC film welding and Harpoon welding with the use of special patented IAW™ "Inverted Airplane Wing" shape tooling. Optional vacuum work table and laser guides allow handling of thin films and precision positioning for fast production setup and weld.

The SUPRA PRO Traveling Head HF Welder has output power of 4kW, touch screen HMI, pneumatic press, automatic PLC steering control – electric motion system with electronically controlled movement counter controlling the length, traveled distance and weld cycle number. The HF machine is moving along the table on special precision rails allowing for smooth motion and exact movement/distance control. The machine is designed for medium size PVC films where cycle/spot or precise continuous line weld is required.

The machine can be easily upgraded and converted (if needed) into standard straight bar HF welder advertising banner/billboard HF welder or Keder production machine with the use of special attachment and electrode.

## Main applications:

- Large format PVC Stretch Ceilings interior design elements
- Indoor and outdoor lightning fixtures
- 3D and molecular decoration structures
- Advertising signs and billboards
- Protective clothing
- Reflective materials and signage

## Technical and Safety Features:

- Precision linear motion/weld up to 0.1mm
- Custom designed for specialty PVC or PU films
- Fully automated weld cycles
- ATS™ Autotuning HF power output system
- Simple setup and easy to operate
- Optional vacuum table system
- High production capacity with programmable PLC
- Backflow HF emission protection
- Output overload protection with warning indicator/reset
- Weld/cut electrodes for "invisible seam" welding
- 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

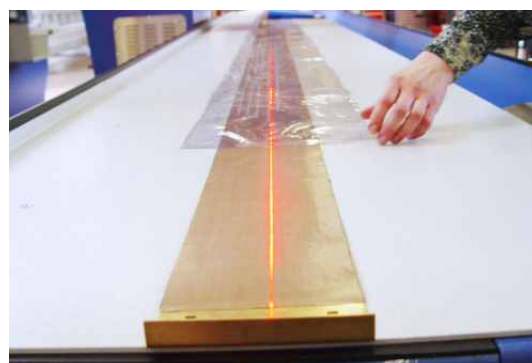
Custom built tooling and electrodes available upon request. Each machine is built according to customers needs. We can modify and adjust any parameters if required at additional cost.

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

## Technical specification

## Supra PRO

Output power	4 kW
Installed power	6 kW
Main fuse	25 A
Power supply	3 x 400 V; 50 Hz
Working frequency	27,12 MHz ± 0,6%
Power tube	air cooled metal-ceramic triode
HF Auto-tuning System (ATS)	standard
ZTG Antiflash™	ultra-fast nanosecond Solid State
PLC control panel	10" touch screen HMI with PLC
Electrode pneumatic press (at 0,4 - 0,8 MPa)	up to 300 kg
Electrode drive	pneumatic
Electrode length (standard)	670 mm
Space behind electrode	350 mm
Compressed air consumption	8 nl/cycle
Electrode working stroke	120 mm
Work table width	700 mm
Welding surface (max)	100 cm <sup>2</sup>
Work table length	up to 25 m
Programmable linear motion	0.2 - 0.5m/sec



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