

# SUPRA

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

- Universal usage for PVC film or harpoon welding
- Weld/cut electrode for film and flat grooved for harpoon - 670mm long
- Small footprint and great work ergonomics
- Smooth power output settings
- Pneumatic front gate limiting HF emission
- Two step electrode electrode downstroke
- SafeDOWN™ anti-crush safety system
- Two push-button or foot pedal operation



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

## SUPRA - quick overview

- Standard edition **SUPRA** HF Welder is made specifically for use in production of Stretch Ceiling (French Ceiling) interior design elements. The machine is equipped with special high grade welding/cutting electrode to achieve perfect straight line "invisible" seam. SUPRA HF Welder has universal application for both: PVC film welding and Harpoon welding with the use of special patented IAW "InvertedAirplane Wing" shape tooling.
- Pneumatically driven welding bar is moved up&down with the use of foot switches allowing the operator to use both hands for exact material positioning under the electrode, while ZTG SafeDOWN™ anti-crush safety system assures the safe work environment.
- The machine can be upgraded (if needed) with additional length work tables for easier film and harpoon positioning during weld cycle.

## Main applications:

- 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

## Features:

- Custom designed for specialty PVC or PU films
- Universal usage for foil weld/cut and harpoon weld
- Flexibility to add extra tables for larger format products
- Front Panel HMI with ability to set time and HF weld cycle parameters
- Direct operation with triode interdiction
- Safety screws on panels / safety switches on detachable panels
- Safe HF Welding operation with necessity to press two "Start" buttons
- Special design IAW™ harpoon tooling
- Weld/cut electrodes for "invisible seam" welding
- ZTG SafeDOWN™ anti-crush safety system
- Ultra-fast sensitive ARC sensor and ZTG AntiFlash™ protection
- Stable and efficient HF generator
- 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

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
Antiflash system	standard, ZTG Antiflash™
PLC control panel	HMI Unitronics Jazz
Electrode pneumatic press (at 0,4 - 0,8 MPa)	up to 300 kg
Electrode drive	pneumatic
Electrode length (standard)	670 mm
Space behind electrode	500 mm
Compressed air consumption	8 nl/cycle
Electrode working stroke	120 mm
Work table size	1500 x 720 mm
Welding surface (max)	100 cm <sup>2</sup>
Dimensions (W x D x H)	1500 x 1340 x 1670 mm
Weight	400 kg



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