

# TECHNICAL DATA SHEET

## SK1SSP

Manual device for ultrasonic cutting and welding for composites

### ► DESCRIPTION

Portable SSP model (SSP 3006 - 20 KHz) allows simple and flexible cutting and welding of composite materials. It can cut wood fibers, glass fibers, carbon and aramid fibers with high quality and cauterization.

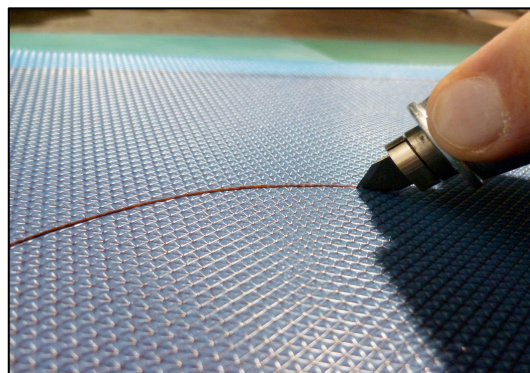
This device is also suitable for technical textiles, plastic films, woven and non-woven textile.



*Cutting UD carbon - PEEK*



*Cutting carbon prepreg*

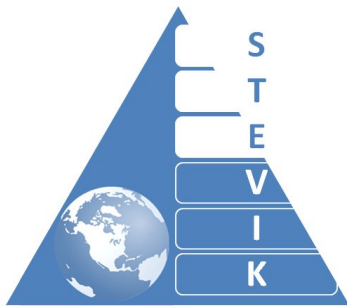


### Advantages

- Cauterization
- No raveling
- Diminution by 50% of cutting forces compared to conventional blades
- Life improvement of blades

### Cutting capacities for composites

PRODUCTS	MATERIALS
Wood fibers Aramid fibers Carbon fibers Glass fibers	Dry (up to 25mm) Prepreg (up to 25mm) Mid-cured (up to 8mm)



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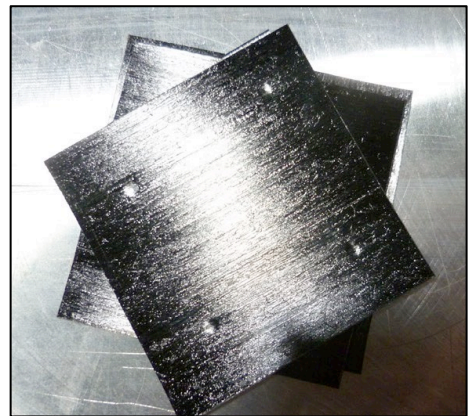
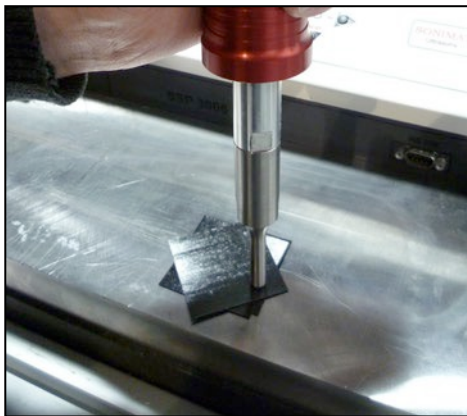
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### ► ULTRASONIC WELDING

Our model allows welding and assembly operations on composite and thermoplastic materials (PEEK, PA, PEI...).

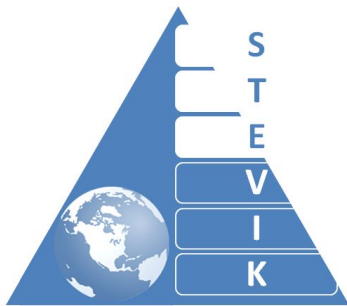
Welding up to 25 folds. Our SSP 3006 model is perfect for pre-positioning the folds before manipulation.

#### Pre-positioning UD carbon - PEEK



**Handgun**

MATERIALS	PRODUCTS
UD Prepreg Powdery woven	Fibers Thermoplastics (PEEK, PA, PEI ...)



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### ► TECHNICAL DATA

Weight: about 7 Kg  
Dimensions: 360 x 270 x 130  
Power supply: 230 V mono 50 / 60 Hz  
Link: RS232

European connectors Conform to CE norms.

### ► GENERAL CHARACTERISTICS

Numerical power supply, numerical INTEL PLL;  
Automatic optimum frequency research;  
Numerical frequency maintenance in real time;  
Series communication link JBUS;  
Welding time programming Constant and settable amplitude whatever are:

- Pressure conditions
- Used power
- Electric power fluctuations

Defects PNP signals

Security dedicated to power over intensity (time of response <1us)  
Technology based on IGBT 4th generation  
Rate > 90 %

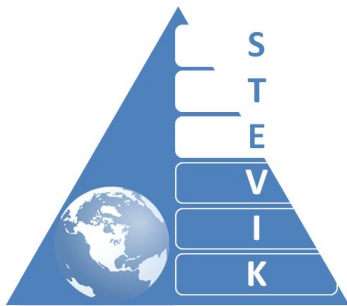
### ► EQUIPMENT AND ACCESSORIES



Cutting gun



Welding gun



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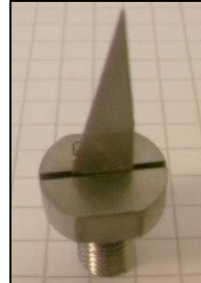
Blades:



Round



Peak 60°C



Knife 11



Knife 10



Composite



Falsk-shaped



Stepped



Flat



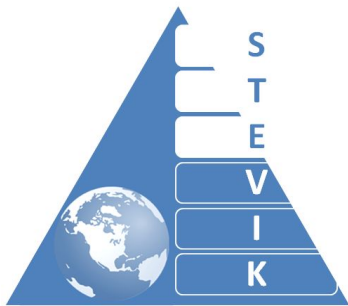
Flat ribs  
0,5 mm



Flat ribs  
1mm



Complete set with accessories



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welding for composites**

### ► NOTE

Please contact us for more detailed information as well as for system development according to your technical specification.

Standard warranty period: 12 months.