

# SPOT TIG

## MICROWELDING

STEEL — ALUMINIUM — COPPER — BRONZE

### SPOT TIG SST 220 AC/DC



WIDE RATIO OF APPLICATIONS FROM HIGH PRECISION TIG WELDS TO SPOT LASER QUALITY

The microwelding SPOT TIG unit combine the quality and the precision of pulsed Laser welding with the most reach technology TIG (DC and AC/DC) .

Specially developped for microwelding, the SPOT TIG range is extremely multipurpose:

- Usable in Traditionnall TIG mode, with high quality and delicacy for ferrous material but also non-ferrous like cuprous or bronze (DC mode) and aluminium (AC mode).

- Thanks to the specific « SPOT MODE » function, you tranform instantlanously your TIG in to high precise welding equipment. The « SPOT MODE » permits you to realize microwelding by micro-impulse for few split seconds, with perfect fusion, no heating, for a result comparable to pulsed-laser welding technology.

All Materials weldable with normal TIG are also workable in « SPOT MODE », ferrous-material, copper and alloys, bronze alloys and Aluminium.

### TYPICAL APPLICATIONS



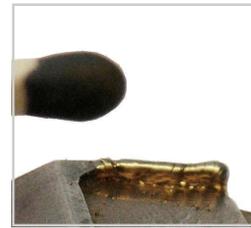
Steel



Steel



Steel



Steel



Aluminium



Aluminium



Aluminium



Cooper

# CHARACTERISTICS

Model		SST 220 AC/DC SPOT
Process		TIG- AC- AC/ DC Manual welding by electrode
Cos φ		0.99
Range of welding current	TIG	5–220 Amp
	SPOT MODE	5–220 Amp
Welding current	10 min/ 40°C 35% d.c	220 Amp
	10 min/ 40°C 60% d.c	180 Amp
	10 min/ 40°C 100% d.c	160 Amp
	SPOT MODE	0.5 –1 –2/5
Voltage		72 v
Size L x l x h (mm)		460x 230 x 325
Weight		19 Kg
Protection		IP 23S
Electricity supply		1 ~230V / 50 Hz / 60 Hz

## TIG FRONT PANEL



## ADVANTAGES OF THE « SPOT » WELDING MODE

- **Short impulse time of some ms**, factory parameters (in favor of shortest times and fastest upgrade and downgrade) **user friendly by the operator** (time in ms, up and down grade).
- Easy and secure implementation for delicate welding.
- Localized fusion bath and **small thermal zone affected**.
- Minimal heating applied to the piece, **halo and fallback negligible** in piece on piece welding and delicate area **without deformation risk** ( Pin, edge, fine wall, proximity of polished or textured effect aspect area).
- **Discreet and strong welding** for mechanically solicited pieces, edges, sliding parts, cutting tools, etc...).
- Safe welding in difficult acces areas.
- **Usable with laser welding wire from Ø 0.2mm up to Ø 0.6mm** in all nuances steel: Titane, steel, stainless steel, copper, bronze, aluminium, etc...

# ACCESSORIES

## Standard



Welding torch TIG 9



Foot control pedal for TIG Mode, Spot Mode

## Options



Binocular microscope x20 with arms and high speed controlled blocker



Light-sensitive Helmet with hight fastness



Led Lighting arms



Torch-Holder table 3 axis



Trolley

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