

TAUWELD ADVANCED

Laser Welding

The TauWeld Advanced represents excellence in laser welding for jewelry laboratories and industries with medium to large-scale production. It is designed to handle welding on objects of various sizes, thanks to its spacious welding chamber.

The dual cooling system allows intensive use even in high-temperature environments, while the SMSP technology (Smooth Spot Multi Pulse) ensures precise control of the laser spot diameter, improving welding quality and uniformity.

The Plus version introduces the Gaussian Smooth Spot technology, which enables an even energy distribution on the welding spot, ensuring cleaner, more controlled, and aesthetically flawless results.



PLUS



SMSP (Smooth Spot Multi Pulse) technology

Integrated camera

Dual cooling system

TECHNICAL DATA

MODEL	TAUWELD ADVANCED	TAUWELD ADVANCED PLUS
LASER SOURCE AND WAVELENGTH	Nd:Ce: YAG 1064 nm	
LASER AVERAGE POWER	90 W	100 W
LASER PEAK POWER	10 kW	11 kW
ENERGY	245 J	255 J
PULSE TIME	0,1 - 25 ms	
PULSE FREQUENCY	0,5 - 40 Hz	
SPOT DIAMETER	0,2 - 2,0 mm (0,05 or 0,1 opt.)	0,1 - 2,0 mm (0,05 opt.) Gaussian Smooth Spot
SPOT SETTING	Motorized	
WAVE PROGRAMS	7 Preset Pulse Shapes	
STORAGE CAPACITY	100 Settings	
INTERNAL CHAMBER CONTROL	Joystick	
EXTERNAL CONTROL	7" Color Touch Screen	
DIMENSIONS	820 x 574 x 580 mm	
WEIGHT	88,6 kg	
TYPE	Desktop	
POWER SUPPLY	230 V AC, 50/60 Hz (110 on request) - 2,2 kW	
ARGON NOZZLE	Yes	