

OROTIG 



WELDING - **EVO X TECH**

High Performance and Impeccable Welds

Orotig presents Evo X Tech, the upgraded version of the industry-leading Evo X laser welder. This upgraded model sets a new benchmark with the **innovative SoftSpot technology**, that ensures seamless welds even on reflective metals, and **an optimized working cycle**, positioning itself as a **frontrunner in performance and efficiency within the welding industry**.



Enhanced performance

With an enhanced cooling system, Evo X Tech can sustain a continuous working cycle while upholding the highest standards of welding quality.



SoftSpot

With the new SoftSpot technology, Evo X Tech can achieve clean and spatter-free welds even on reflective materials thanks to soft, adjustable and uniform shots.



Top performing on all metals

With a maximum power of 250 J and a peak power reaching 10 kW, Evo X Tech ensures exceptional welding quality, particularly on reflective metals like silver, white gold, and platinum.

The innovative SoftSpot technology of Evo X Tech ensures **impeccable welds across various types of metal**. This advanced system **delivers a uniform and clean weld, significantly enhancing its durability**. Thanks to a precise and adjustable spot, the metal disperses evenly during the welding process, achieving a **smooth and splash-free surface**.



The result is a smooth, porosity-free surface and an even distribution of metal, **minimizing the risk of damaging precious metals and ensuring a high level of quality and consistency throughout the process**, regardless of the type of metal used.

EVO X TECH - PERFECT WELDS, NO COMPROMISES



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Power and Reliability with the new Cooling System

NO MACHINE DOWNTIME WITH CONTINUOUS DUTY CYCLE

Orotig has designed an advanced cooling system that enables Evo X Tech to operate with a **100% duty cycle**, positioning itself as the most powerful and high-performing machine in its category compared to competitors. Laboratory tests conducted on similar welding machines available in the market have shown that **under identical environmental conditions and parameters, Evo X Tech maintains continuous operation, effectively eliminating the need for machine downtime.**

Furthermore, the airflow for cooling the main electronic components has been optimized, **establishing Evo X Tech as an excellence in terms of reliability and long-term durability.**

The machine is designed to operate seamlessly even in high humidity environments and with elevated temperatures, ensuring **high performance under any environmental condition.**

Patented Smart Footswitch for More Control

Evo X Tech comes with the Patented Orotig Smart Footswitch. In addition to performing all the functions of the traditional pedal, **the device allows you to control the increase of a parameter by varying the pressure on the pedal, without having to interrupt the workflow.**

★ PATENTED SYSTEM



Fast parameters changing

Instead of **changing parameters** from the touch screen, it is possible to do it **quickly with the footswitch while welding.**



Perfect welding

Thanks to the fast and easy parameters control, **it is possible to quickly change the effect of the laser on a specific metal, increasing the effectiveness of the melt pool.**



Plug & Play

When the footswitch is connected to the machine, the pedal icon automatically appears on the home screen, making its use **simple and immediate.**



CONTINUOUS DUTY CYCLE

Thanks to a revised cooling system, Evo X Tech is capable of working on a continuous cycle with no machine downtime.



HIGH RELIABILITY

The control of internal temperature preserves the electronics, for higher reliability.



Technical Data

CRYSTAL TYPE	Nd:YAG @ 1064
PULSE POWER	250 J
PULSE DURATION	25 ms
PEAK PULSE POWER	10 kW
AVERAGE POWER	90 W
PULSE FREQUENCY	0 - 40 Hz

Intuitive interface

7" color display with a user-friendly interface.

Leica microscope

Leica 45° stereo microscope with 10x optical zoom and right-eye crosshair.

Preset programs

Possibility of viewing and recording machining operations and dynamically setting the work program, choosing it from a library of preset programs.

IUVAPS™ Sanitizing system system

Constant sanitisation of the environment thanks to the IUVAPS™ system, which eliminates dust and pathogens.

Connectivity and Wi-Fi

Telemetry for easy assistance and remote updates.

Wide welding chamber with adjustable LED

Welding chamber with wide access and patented, adjustable LED lighting system to facilitate welding on reflective metals.



POWER SUPPLY

230 VAC ± 10%, 1P +N + PE, 50/60 Hz, 1.8 kW

FOCAL DIAMETER

From 0.1 a 2 mm

COMMAND ACCESS

External with 7" capacitive touch screen display, internal with rotary switch

COOLING SYSTEM

Liquid cooled (4 L) with forced ventilation

WEIGHT

41 Kg



Accessories



**DYNASCOPE
HEAD**



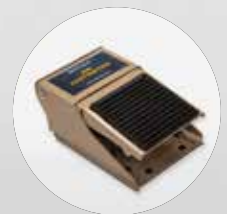
**INTERNAL
WRIST REST**



**ADJUSTABLE
MICROSCOPE
STAND (5° - 25°)**



**MOTORISED
TABLE**



**PNEUMATIC
PEDAL**

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