

Sisma Laser Welders

Precision Laser Systems for Jewelers



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We are proud to partner with Sisma S.p.A, a global leader in the manufacture of laser technologies for jewelry. With over 60 years of industry experience, Sisma is a forward-thinking developer with innovative patents that offer unmatched precision, quality and craftsmanship. Our team of Sisma experts are at your disposal throughout the process from guidance on choosing the right laser to training on your new laser system to servicing your current laser.

Which Sisma Laser Is Right for You?

With advancements in technology, all but one of Sisma's laser welders for jewelry are offered as a space saving tabletop model. Ranging from 187 joules to 275 joules, these are high powered performance machines that are designed to tackle even the most difficult applications for jewelry repair, fabrication, manufacturing and custom design.

Determining the correct machine is based on the number of hours in use on a daily/weekly basis, the materials principally being welded, and your budget. Rest assured, Sisma is your perfect partner for uncompromising end results.



Key Features

All machines referenced herein carry unique Sisma patents, such as Smart Spot Technology and current control. Additionally, they can store 250 customizable settings, internal controls for adjusting parameters, argon and air compressor hookups, ethernet port for remote diagnostics and firmware updates, USB port allows for backup and transfer of files, HEPA vapor and particulate filtering, a 2-year warranty to include the flash lamp, and support through Gesswein. Below is what sets each machine apart.

Sisma Laser Welder Comparison Chart

Freestanding Units



LM-250



LM-T 250

LM / LM-T 250

Key Features

- Freestanding pedestal style laser welding machine.
- Pedestal is hydraulic, with side trays for work storage.
- The LM 250 mirrors the LM D Scope, but with high power
- The LM-T 250 mirrors the LM DT Dual, but with high power.
- Boost mode allows operator laser polish or fill porosity in a wide diameter at very high repetition.
- External chiller mounted under the machine allows for a higher duty cycle and extreme workplace demands without overheating.
- 0.1mm microspot comes standard.

Technical Data	LM-250	LM-T 250
Item #	8301980	8301985
Source Type	Nd: YAG (Lamp)	Nd: YAG (Lamp)
Wavelength	1064nm	1064nm
Laser Power	100W	100W
Pulse Duration	0.3-25ms	0.3-25ms
Pulse Frequency	0-50 Hz	0-50 Hz
Max Peak Power	11kW	11kW
Max Pulse Energy	275J	275J
Spot Diameter	0.1-2mm	0.1-2mm
Smart Spot Tech	Yes	Yes
Modes	Eco, Performance and Quiet	Eco, Performance and Quiet
FPS (First Pulse Suppression)	Yes	Yes
Display Port	No	Yes
Power Supply	220/230V, 50/60Hz, 1Ph, 12A	220/230V, 50/60Hz, 1Ph, 12A
Dimensions (L x W x H)	43" x 34.5" x 53.5" (1094 x 878 x 1363mm)	43" x 34.5" x 53.5" (1094 x 878 x 1363mm)
Weight	341 lbs. (155kg)	341 lbs. (155kg)
Warranty	2 Year (Flash Lamp Included)	2 Year (Flash Lamp Included)

Some details may change as technology advances. Call us or check our website for the latest information.

Sisma Laser Welder Comparison Chart

Desktop Models

Why A Desktop Laser?

The freestanding laser welder used to be synonymous with power. When desktop lasers began breaking into the marketplace, they were praised for their compact size, but lacked the punch that larger machines had.

As you will note herein with the joule ratings, technology has been a blessing to the manufacture of lasers. Systems such as cooling reservoirs, and electrical boxes have gotten smaller, and in the same motion, the machines became more capable of producing higher amounts of power.



LM-D Ready

Key Features

- Only option for the 150 model.
- Large access open front, protected by leather hanging strips.
- Leica 10X Stereo Microscope.
- Absent of first pulse suppression and hinged hood.



LM-D Scope

Key Features

- Robust workhorse, capable of working on the most reflective materials.
- Large front door with oversized work chamber.
- Leica 10X Stereo Microscope
- FPS for first shot control.
- Hinged hood for easy access under the cover.

Technical Data	LM-D Ready 150/180	LM-D Scope 180/210
Item #	8301580, 8301581	8301582, 8301584
Source Type	Nd: YAG (Lamp)	Nd: YAG (Lamp)
Wavelength	1064nm	1064nm
Laser Power	60W / 80W	80W / 85W
Pulse Duration	0.3-25ms	0.3-25ms
Pulse Frequency	0-50 Hz	0-50 Hz
Max Peak Power	7.5kW / 9 kW	9 kW / 10.5 kW
Max Pulse Energy	187J / 225J	225J / 262J
Spot Diameter	0.2/2mm (0.1mm optional)	0.2/2mm (0.1mm optional)
Smart Spot Tech	Yes	Yes
Modes	Eco	Eco, Performance and Quiet
FPS (First Pulse Suppression)	No	Yes
Display Port	No	No
Power Supply	230V±10%, 50/60 Hz, 1pH, 12A	230V±10%, 50/60 Hz, 1pH, 12A
Dimensions (L x W x H)	22.5" x 29.5" x 20.1" (567 x 744.5 x 512mm)	22.5" x 28.75" x 20" (567 x 730 x 510mm)
Weight	132 lbs. (60kg)	132 lbs. (60kg)
Warranty	2 Year (Flash Lamp Included)	2 Year (Flash Lamp Included)

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LM-D Vision

Key Features

- Equipped with a large 10.1" high-definition LCD Touchscreen.
- Screen offers a digital zoom, from 10X to 13X with digital video output.
- Ability to record picture and video, which can be exported via USB.
- FPS for first shot control.
- Hinged hood for easy access under the cover.



LM-DT Dual

Key Features

- Leica 10X Stereo Microscope AND a large 10.1" HD LCD Touchscreen
- Screen offers a digital zoom with digital video output.
- Ability to record picture and video on board, which can be exported via USB.
- FPS for first shot control.
- Hinged hood for easy access under the cover.



LM-D Lynx

Key Features

- Equipped with Vision Engineering cobra style head for 3D projection of workspace.
- A singular large lens magnifies your work piece at 16X.
- Quad lighting system for increased visibility and clarity in welding.
- FPS for first shot control.
- Hinged hood for easy access under the cover.

Technical Data	LM-D Vision 180/210	LM-DT Dual 180/210	LM-D Lynx 180/210
Item #	8301583, 8301585	8301890, 8301891	8301961, 8301965
Source Type	Nd: YAG (Lamp)	Nd: YAG (Lamp)	Nd: YAG (Lamp)
Wavelength	1064nm	1064nm	1064nm
Laser Power	80W / 85W	80W / 85W	80W / 85W
Pulse Duration	0.3-25ms	0.3-25ms	0.3-25ms
Pulse Frequency	0-50 Hz	0-50 Hz	0-50 Hz
Max Peak Power	9 kW / 10.5 kW	9 kW / 10.5 kW	9 kW / 10.5 kW
Max Pulse Energy	225J / 262J	225J / 262J	225J / 262J
Spot Diameter	0.2/2mm (0.1mm optional)	0.2/2mm (0.1mm optional)	0.2/2mm (0.1mm optional)
Smart Spot Tech	Yes	Yes	Yes
Modes	Eco, Performance and Quiet	Eco, Performance and Quiet	Eco, Performance and Quiet
FPS (First Pulse Suppression)	Yes	Yes	Yes
Display Port	Yes	Yes	No
Power Supply	230V±10%, 50/60 Hz, 1pH, 12A	230V±10%, 50/60 Hz, 1pH, 12A	230/230V, 50/60 Hz, 1pH, 12A
Dimensions (L x W x H)	22.5" x 28.75" x 24" (567 x 730 x 612mm)	22.5" x 28.75" x 24" (567 x 730 x 612mm)	22.5" x 28.75" x 20" (567 x 730 x 510mm)
Weight	132 lbs. (60kg)	132 lbs. (60kg)	132 lbs. (60kg)
Warranty	2 Year (Flash Lamp Included)	2 Year (Flash Lamp Included)	2 Year (Flash Lamp Included)

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Accessories

8301794

Flow Gauge Argon Regulator



8300784

Step Up & Down Transformer



8101819

Varibench Metal-Top Table



8101816

Deluxe Extra-Large Adjustable Saddle Stool



8301796

Sisma Leica Ergo Wedge



8301838 (16x), 830-1956 (25x)

16X & 25x Lens Sets



8302800

Speedwire Wire Dispenser Kit



14K Rose Gold 30 ga

8302801

19K White Gold 36 ga

8302807

19K White Gold 30 ga

8302797

18K Rose Gold 30 ga

8302802

14K Yellow Gold 30 ga

8302795

Platinum/Iridium 30 ga

8302798

Stainless Steel 30 ga

8302803

18K Yellow Gold 30 ga

8302796

Hard Silver Solder 30 ga

8302799

Kit Includes: 14k Yellow Gold, 18k Yellow Gold, 19k White Gold, Platinum/Iridium and Hard Silver Solder

Service & Support



Our service professionals are ready to give you the support you need. Whether it's choosing the right laser, providing training on your new laser, or servicing your current Sisma laser - we've got you covered.



Trained Laser Professionals

Our team of sales and service specialists are fully trained on our laser systems so we can give you the best quality service.



Laser Install + Training

We ensure a quick installation of your new Sisma laser with comprehensive video training. We can also provide on-site training for a fee.



Preventative Maintenance

All machines require maintenance to ensure efficiency and longevity. When your machine requires consumables or spare parts, we are standing by to get you what you require.



Remote & Onsite Support

Should you have any questions about your machine's performance or need help troubleshooting, our experienced technicians are available for remote or in-person consultations.

Adam Kasson

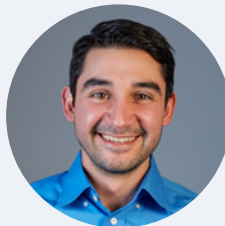
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