



LASER WELDERS LASER ENGRAVERS

Made in Italy

Established in 1961, Sisma is a globally recognized name for the design and production of extremely high precision machinery such as Laser Welders and Laser Markers/Engravers/Cutters for the jewelry and industrial markets. Innovative by vocation, Sisma combines an independent and cutting edge design and production organization with a wealth of highly specialized human resources, thus guaranteeing top product quality as well as thorough and prompt assistance throughout the world.

Sisma's philosophy, aimed at satisfying the specific needs of customers, is the result of an inborn strategic imperative that contributes to affirming the role of Sisma as a maker of excellence in the world of industrial mechanics.

At Sisma, their extensive experience and technical know-how blends with productive efficiency and innovative spirit which promptly answers to the ever changing marketplace. The power to create special, customized machines is but another jewel in Sisma's crown of excellence. Look no further... Sisma is the machine of choice for the above-mentioned markets all over the world! Machines are proudly manufactured in Italy.



For more details or to view our complete line
www.gesswein.com



LM-D Ready



LM-D Scope



LM-D Vision



LM-DT Dual

Gesswein is proud to partner with Sisma in providing superior laser welders for the jewelry trade. Optimal efficiency through high peak power, low operating costs, a newly redesigned ceramic flash chamber, coupled with Gesswein's famous service and support, make the Sisma brand second to none on the market today!

Invest in tomorrow's technology today. Sisma, with Gesswein, combining over 150 years of excellence and performance; ready to work for you.

Choose Between 4 Tabletop Models

The LM D Ready, available in 150 joule and 180 joule configurations, provide the operator with a large open front, Leica precision optics, 250 customizable presets, and ethernet port for remote diagnostics.

The LM-D Scope, LM-D Vision, and LM-DT Dual, all available in 180 joule and 210 joule configurations, share the same internal machine specs, but differ in their appearance and operability.

Enjoy added perks of first pulse suppression, smart spot technology, a hinged hood, and increased cooling capacity. The workhorses of the line carry either a Leica Microscope (LM D), a 10.1" High Definition LCD touchscreen (LM D Vision) or BOTH! (LM DT Dual).

Further advanced features of Sisma machines include (by request and for an added fee) a 0.1mm spot diameter, 16X Leica optics, an angled wedge, a Leica Zoom retrofit kit, or an external chiller.

Key Features:

- Smart Spot technology for sustained weld quality at high repetition.*
- Welding chamber has a high power fume extractor with durable HEPA filter.*
- 40% increased cooling capacity over previous models.
- The Leica microscope operates at a 10X magnification**
- The screen on the LM-D Vision and LM-D Dual offers a digital zoom of 10X up to 13X.
- Hinged hood system for ease of opening the machine.*
- Ethernet port for remote diagnostics and troubleshooting.
- All machines have argon and air compressor hookups.
- 250 customizable programs.
- Internal mouse controls for ease in adjustment of parameters.
- 2 year warranty, which includes the flash lamp.

*On all machines except LM-D Ready.

**On all machines except LM-D Vision



Technical Data	LM-D Ready 150 / 180	LM-D Scope 180 / 210
Item #	830-1580 / 830-1581	830-1582 / 830-1584
Source Type	Nd: YAG (Lamp)	Nd: YAG (Lamp)
Wavelength	1064nm	1064nm
Laser Power	60W / 80W	80W / 85W
Pulse Duration	0.3-20ms	0.3-20ms
Pulse Frequency	0-50 Hz	0-50 Hz
Max Peak Power	7.5 kW / 9 kW	9 kW / 10.5 kW
Max Pulse Energy	150J / 180J	180J / 210J
Spot Diameter	0.2/2mm (0.1mm optional)	0.2/2mm (0.1mm optional)
Smart Spot Tech	NO	YES
Modes	Eco	Eco, Performance, and Quiet
FPS (First Pulse Suppression)	NO	YES
DisplayPort	NO	NO
Power Supply	230V, +/- 10%, 50/60 Hz	230V, +/- 10%, 50/60 Hz
Dimensions: Length x Width x Height	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 / 60 kg	132 lbs / 60 kg
Warranty	2 Year (Flash Lamp Included)	2 Year (Flash Lamp Included)

Due to the technical nature of these products, some details may change. Please call or visit our website for the most up-to-date information.

ACCESSORIES



Metal Varibench Table and Deluxe Extra-Large Adjustable Saddle Stool

Variable height bench operated by a powered rocker switch, can be raised or lowered for an ergonomic and comfortable welding height (31" - 51"). The Varibench is set on locking casters with a sturdy aluminum table top with 90° X 10mm cut corners, custom made to fit all Sisma tabletop models. Welders fit perfectly without sliding during operation. Essential where space is valuable. Made in USA.

Stool seat measures 16" by 17" and 2" thick to provide maximum comfort. Base is 26" wide to provide extra stability. Foot-rest ring is 18.5" in diameter. Height-adjustable 8" to 13.5". Seat height ranges from 25" to 35". Five smooth rolling casters. Made in China.

Metal Varibench Table	810-1819	\$1,495.00
Deluxe Saddle Stool	810-1816	270.50

Speed Wire Dispenser Kit

Ideal for laser-welding repairs and applications allowing for increased productivity saving time! Cleverly designed pen-style dispenser comes pre-loaded with five feet of 30-gauge wire (non-refillable). Each dispenser is 4.5" long and color-coded/labeled. Wire stays clean and free of kinks.



Speed Wire kit	830-2800	\$363.95
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Speed Wire Dispensers

(Sold Individually)

14K Yellow Gold	830-2795	\$63.00
18K Yellow Gold	830-2796	84.00
19K White Gold	830-2797	95.00
Platinum/Iridium	830-2798	99.00
Hard Silver	830-2799	22.00

Prices as of 01/20/2020, subject to change with current metals market.

DisplayPort plug for digital video output

USB & Ethernet ports for remote diagnostics and troubleshooting

Intuitive 10.1" high definition LCD screen with digital zoom from 10X to 13X

10X Leica microscope

High Power! Available in 150, 180 & 210 Joule models (150 Joule available in LMD Ready Model only)

Simplistic alignment adjustment

LM-DT180

YAG sightglass for safety & visibility

Oversized door with large work chamber

LM-DT Dual Model
Shown

Large comfortable arm openings

Convenient internal mouse control



LM-D Vision 180 / 210	LM-DT Dual 180 / 210
830-1583 / 830-1585	830-1890 / 830-1891
Nd: YAG (Lamp)	Nd: YAG (Lamp)
1064nm	1064nm
80W / 85W	80W / 85W
0.3-20ms	0.3-20ms
0-50 Hz	0-50 Hz
9 kW / 10.5 kW	9 kW / 10.5 kW
180J / 210J	180J / 210J
0.2/2mm (0.1mm optional)	0.2/2mm (0.1mm optional)
YES	YES
Eco, Performance, and Quiet	Eco, Performance, and Quiet
YES	YES
YES	YES
230V, +/- 10%, 50/60 Hz	230V, +/- 10%, 50/60 Hz
22.5" x 28.75" x 24" (567 x 730 x 612mm)	22.5" x 28.75" x 24" (567 x 730 x 612mm)
132 lbs / 60 kg	132 lbs / 60 kg
2 Year (Flash Lamp Included)	2 Year (Flash Lamp Included)

Easy-Go Series

The Easy Go 200/300 fiber optic laser marker, engraver and cutter by Sisma is the latest addition to their expansive line of machinery. Equipped with a motorized z axis for exact focal distance, a user friendly interface, and unsurpassed Sisma quality reassurance, the Easy Go machines are quality you can rely on. Available in 20 watt and 30 watt configurations, this introductory machine has all accessories sold separately.

Easy Series

The mainstay of Sisma's machining comes with the all-inclusive Easy Series of laser markers, engravers and cutters. Available in 20, 30, and 50 watt fiber optic configurations, the Easy Series comes with everything you need to incorporate hallmarking, personalized engravings, depth with 3-D impressions, and automated cutting. Focal distance is automated with a dynamic measuring device, while the machine is air cooled so maintenance is virtually non-existent. Can achieve depths of 2µm in a single pass, with mark speeds up to 2,000 mm/second. This system can be integrated with CVS (Coaxial Vision System) and pattern matching software.



Smarmy Series

Power, depth, clarity and speed are what encompasses the Smarmy Series of fiber optic laser markers, engravers and cutters. Available in 50 watt and 70 watt configurations. The 50 watt machine has the same detail in fineness and precision as the Easy series, with a larger chamber. The 70 watt, because of its larger focal lens, is a work horse for those interested in heavy cutting, and thus suited for those in mass production.

For all machines, fume extractor/dust collection system, vacuum box, guide plate dragger and computer systems are sold separately.



Technical Data	Easy-Go 200 (20W) / 300 (30W)	Easy 200 (20W) / 300 (30W) / 500 (50W)	Smarmy 500 (50W) / 700 (70W)
Item #	821-5970/ 821-5972	821-5955 / 821-5956 / 821-5957	821-5958 / 821-5959
Source Type	Yb (Fiber)	Yb (Fiber)	Yb (Fiber)
Wavelength	1060-1085nm	1064nm	1064nm
Average Laser Power	20W / 30W	20W / 30W / 50W	50W / 70W
Pulse Frequency	1-500 kHz	1-500 kHz	1-500 kHz
Pulse Duration	120 ns	40-260 ns	40-260 ns
Max Pulse Energy	1 mJ @20 kHz	0.21-1 mJ	0.21-1 mJ
Beam Quality	≤ 1.8 M2	≤ 1.6 M2	≤ 1.6 M2
Beam Spot Diameter	20 µm	20 µm	20 µm
Max Marking Speed	2000 mm/s	2000 mm/s	2000 mm/s
Z Axis Stroke	340 mm	290 mm	400 mm
Power Supply	230V, +/- 15%, 50/60 Hz	230V, +/- 15%, 50/60 Hz	230V, +/- 15%, 50/60 Hz
Dimensions: Length x Width x Height	21.8" x 27" x 31.3" (555 x 685 x 795mm)	22" x 30" x 30.3" (560 x 760 x 770mm)	21.8" x 37.2" x 37.5" (555 x 945 x 955mm)
Weight	165 lbs, 75kg	187 lbs, 85kg	330 lbs, 150kg
Warranty	2 Year	2 Year	2 Year

Due to the technical nature of these products, some details may change. Please call or visit our website for the most up-to-date information.



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