

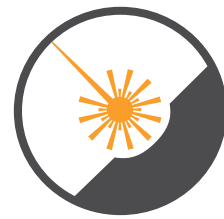
Dental and medical solutions



**Laser
welding**



**Additive
manufacturing**



**Laser
marking**

MYSINT100 selective laser fusion 3D printer for metal powder



Technical data

	MYSINT100	MYSINT100 Dual Laser
Building volume	Ø 100 mm x 100 mm	Ø 100 mm x 100 mm
Laser source	Fiber Laser 200 W	2x Fiber Laser 200 W
Precision optics	Quartz F-Theta Lens	Quartz F-Theta Lens
Laser spot diameter	55 µm	2x 55 µm
Typical layer thickness	20 µm - 40 µm (adjustable)	20 µm - 40 µm (adjustable)
Power supply	220-240 V 1ph - 50/60 Hz	220-240 V 1ph - 50/60 Hz
Max power absorbed	1,53 kW	1,9 kW
Inert gas	Nitrogen, Argon	Nitrogen, Argon
Inert gas supply	6 mm / 2.5 ÷ 5bar @ 35 L/min	6 mm / 2.5 ÷ 5bar @ 35 L/min
Inert gas consumption	<0,3 L/min @ 0,5% O ₂	<0,3 L/min @ 0,5% O ₂
O ₂ concentration	0,3%	0,3%
Machine dimensions (LxWxH)	1390 x 777 x 1600 mm	1390 x 1084 x 1600 mm (LxWxH)
Net weight	650 kg	720 kg

Materials

Cobalt chrome, precious metals, bronze, steel alloys, nickel alloys

selective laser fusion 3D printer for metal powder **MYSINT300**



Technical data

MYSINT300

Building volume	Ø 300 mm x 400 mm
Laser source	Fiber Laser 500 W on the substrate
Laser spot diameter	from 100 µm to 500 µm (variable)
Typical layer thickness	min 30 µm, typical 60 µm
Production rate (Stainless Steel)	Up to 25 cm³/h
Inert gas	Nitrogen, Argon
O ₂ concentration	< 100 ppm
Compressed air requirement	min 4 atm - max 10 atm
Power supply	400 V 3 ph – 50/60 Hz
Max power absorbed	10 kW
Machine dimensions (LxWxH)	3400 x 1400 x 1970 mm
Net weight	3500 kg + 600 kg (filtration unit)

Materials

Cobalt chrome, steel alloys, nickel alloys, aluminium alloys, titanium alloys



Technical data	ZERO	UNO
Building area (XY)	96 mm x 54 mm	124,8 mm x 70,2 mm
Z axis	200 mm	200 mm
XY resolution	50 µm	65 µm
Light source	UV LED@405 nm	UV LED@405 nm
Projector technology	DLP FullHD (1920 x 1080 px)	DLP FullHD (1920 x 1080 px)
Layer thickness range	min 25 µm - max 200 µm	min 25 µm - max 200 µm
Printing speed	up to 6 min/cm	up to 6 min/cm
Dimensions	Ø 411 mm x h 870 mm	Ø 411 mm x h 870 mm
Network 3D printer	yes (Ethernet 10/100/1000 - WiFi)	yes (Ethernet 10/100/1000 - WiFi)
Electrical input	100/240 V AC - 50/60 Hz	100/240 V AC - 50/60 Hz
Electrical output	24V DC with power supply	24V DC with power supply
Weight	27,5 kg	27,5 kg

Materials

EVERES Dental Cast, EVERES Dental Model, EVERES Denture, EVERES Gingiva Flex Mask, EVERES Self Hiding, EVERES Temporary, EVERES Tray



- 4K UHD Projector, 3840 x 2160 px resolution
- Touch-sensitive retractable control screen, which allows viewing of the process progress and print performance
- Two print volumes, variable base from 115.2 x 64.8 mm to 226.6 x 127.4 mm and maximum height of 450 mm
- Two XY resolutions, variable at 30 or 59 μm
- Double resin cartridge loading positions and additional supply tank, for a very high productivity without interruptions

Materials

EVERES Dental Cast, EVERES Dental Model, EVERES Denture, EVERES Gingiva Flex Mask, EVERES Self Hiding, EVERES Temporary, EVERES Tray

LM-D series manual laser welding systems



Technical data	LM-D READY		LM-D	LM-D
	150	180	180	210
Average laser power	60 W	80 W	80 W	85 W
Max peak power	7,5 kW	9 kW	9 kW	10,5 kW
Energy at max pulse duration	150 J	180 J	180 J	210 J
Laser source type	Nd: YAG (flash lamp)		Nd: YAG (flash lamp)	Nd: YAG (flash lamp)
Wavelength	1064 nm		1064 nm	1064 nm
Pulse duration	0,3 ms - 20 ms		0,3 ms - 20 ms	0,3 ms - 20 ms
Pulse frequency	up to 50 Hz		up to 50 Hz	up to 50 Hz
Spot diameter	0,2 mm ÷ 2 mm		0,2 mm ÷ 2 mm	0,2 mm ÷ 2 mm
Smart Spot	X		✓	✓
Power supply	230 V ±10% 50/60 Hz		230 V ±10% 50/60 Hz	230 V ±10% 50/60 Hz
Dimensions	567 x 744 x 512 mm		567 x 730 x 612 mm	567 x 730 x 612 mm
Weight	60 kg		60 kg	60 kg



Technical data	200F EP	3000	500F EP	7000
Laser source	Fiber: Yb	Fiber: Yb	Fiber: Yb	Fiber: Yb
Pulse frequency	1 ÷ 1 MHz	30 ÷ 80 kHz	1 ÷ 1 MHz	70 ÷ 140 kHz
Pulse duration	6 - 500 ns	50 - 200 ns	6 - 500 ns	50 - 200 ns
Max pulse energy	0,03 - 1 mJ	1 mJ	0,03 - 1 mJ	0,8 mJ
Beam quality (M²)	≤ 1,6	≤ 1,6	≤ 1,6	≤ 1,6
Laser spot diameter	20 µm	20 µm	20 µm	20 µm
Waveforms	40	/	38	/
Working temperature	10 ~ 35° C			
Cooling system	Forced-air cooling			
Z axis stroke	290 mm			
4th axis	Optional			
Power supply	230 V ± 10% 50/60 Hz 1ph			
Dimensions (WxDxH)	560 x 760 x 770 mm			
Weight	85 kg			



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