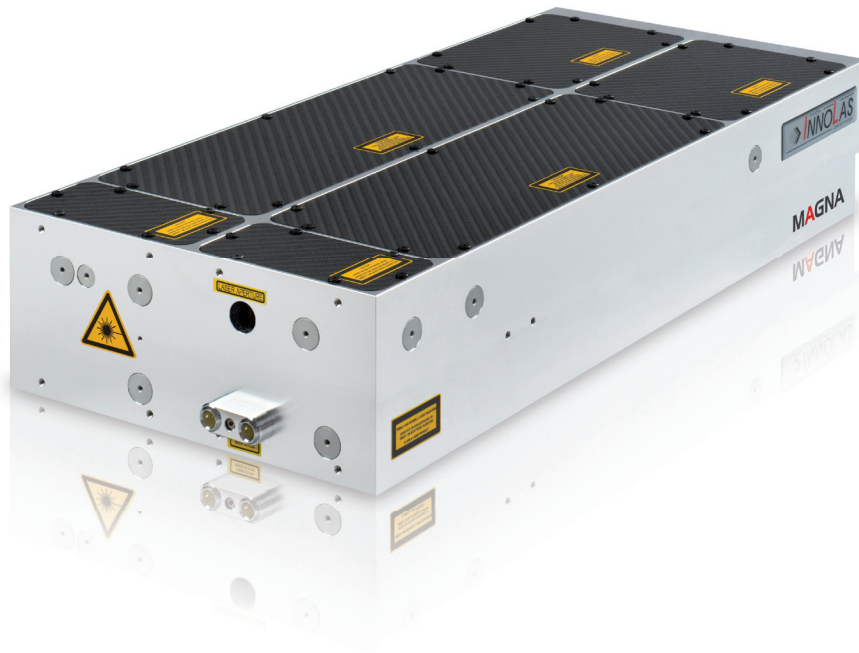


MAGNA

High-Energy Sub-ns Lasers

MAGNA

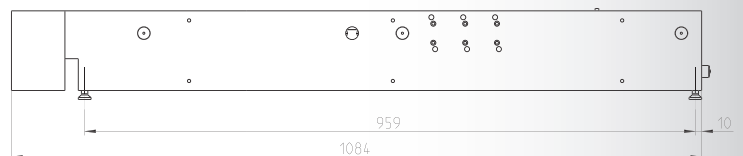
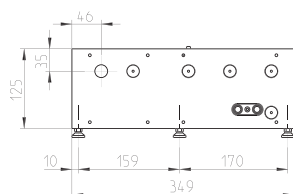


Features

- * High energy: up to 2 J at 500 ps pulse width
- * High peak power: up to 4 Giga-Watt
- * Sub-nanosecond oscillator and amplifier integrated in monolithic housing
- * Active Q-switch, < 400 ps Jitter
- * High-energy sub-nanosecond pulses enable new experiments
- * Quick and easy exchange of flashlamps
- * Maintenance-free pumping chambers with ceramic reflector
- * Excellent beam quality and pointing stability

MAGNA

Model	MAGNA I	MAGNA II	MAGNA III	MAGNA IV
Repetition Rate	1 to 20 Hz	1 to 20 Hz	1 to 20 Hz	1 to 10 Hz
Energy				
Pulse Energy @ 1064 nm	> 200 mJ	> 400 mJ	> 1000 mJ	> 2000 mJ
Pulse Energy @ 532 nm	> 100 mJ	> 200 mJ	> 500 mJ	> 1000 mJ
Pulse Energy @ 355 nm	> 50 mJ	> 100 mJ	> 250 mJ	> 500 mJ
Energy Stability at 1064 nm (RMS)	< 1.2%	< 1.2%	< 1.2%	< 1.2%
Energy Stability at 532 nm (RMS)	< 1.6%	< 1.6%	< 1.6%	< 1.6%
Energy Stability at 355 nm (RMS)	< 2.5%	< 2.5%	< 2.5%	< 2.5%
Beam Parameters				
Pulse Width	< 600 ps	< 600 ps	< 600 ps	< 600 ps
Divergence	< 0.5 mrad	< 0.5 mrad	< 0.5 mrad	< 0.5 mrad
Pointing Stability	< ± 50 µrad	< ± 50 µrad	< ± 50 µrad	< ± 50 µrad
Beam Diameter	7 mm	12 mm	12 mm	16 mm
Temporal Jitter	< ± 400 ps	< ± 400 ps	< ± 400 ps	< ± 400 ps
Operating Parameters				
Lamp Lifetime	> 20,000,000 shots	> 20,000,000 shots	> 20,000,000 shots	> 20,000,000 shots
Electrical Supply	208/240 VAC, 50/60 Hz, 2.5 kW	380 VAC; 50 Hz; 5 kW	380 VAC; 50 Hz; 5 kW	2 x 380 VAC; 50 Hz; 5 kW
Cooling	8 l/min; 2-6 bar; < 15 °C	8 l/min; 2-6 bar; < 15 °C	8 l/min; 2-6 bar; < 15 °C	8 l/min; 2-6 bar; < 15 °C
Dimensions				
Dimensions Laser Head IR (L x W x H)	1084 x 200 x 125 mm	1084 x 349 x 125 mm	1084 x 349 x 125 mm	1084 x 533 x 125 mm
Dimensions Power Supply (L x W x H)	560 x 400 x 425 mm + 19" 1 RU	560 x 400 x 425 mm + 19" 1 RU	560 x 400 x 425 mm + 19" 1 RU	2x 560 x 400 x 425 mm + 19" 1 RU



InnoLas follows a policy of continuous product improvement. All specifications are subject to change without notice.

InnoLas Laser GmbH is DIN EN ISO 9001 certified.

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