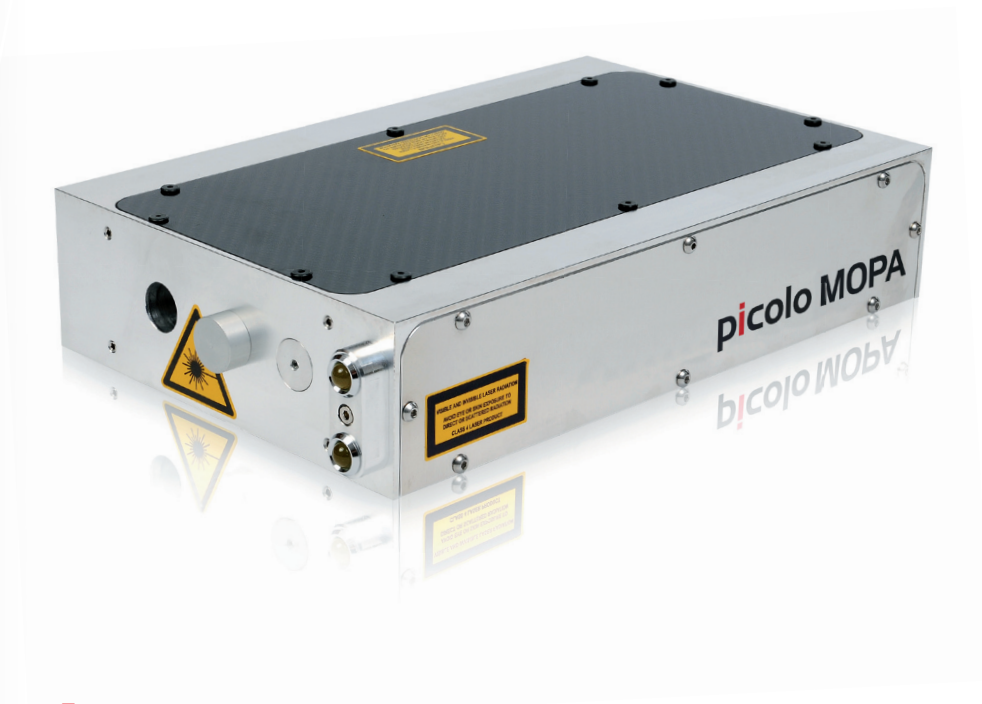


# picolo

Sub-Nanosecond Lasers

## picolo MOPA

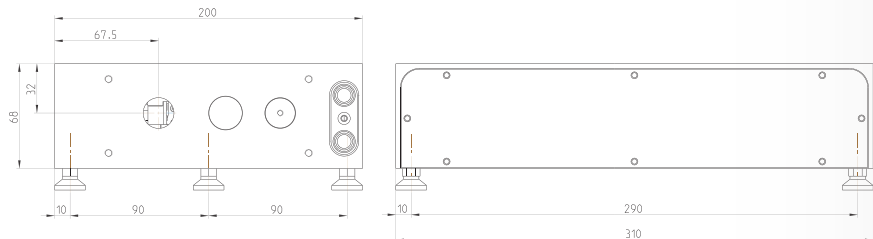


### Features

- \* Oscillator/Amplifier Lasersystem
- \* Compact laser head and power supply with small footprint
- \* High efficiency
- \* No external cooling required
- \* TEM<sub>00</sub> pulses down to 500 ps
- \* Rep-rates up to 100 kHz
- \* Ext triggering/synchronisation to < 200 ps jitter
- \* Oscillators to 2 W and > 125 kW peak
- \* Osc/amps to > 4 W and > 300 kW peak
- \* IR, Visible/UV (harmonic) and fibre optic delivery options
- \* Laboratory or customised OEM units

## picolo MOPA

Model	picolo 1-MOPA	picolo 25-MOPA	picolo 50-MOPA	picolo 100-MOPA	picolo YAG
Max rep-rate	up 5 kHz optimized for 1 kHz	up to 25 kHz	up to 50 kHz	up to 100 kHz	up to 10 kHz
Max. Pulse Energy at 1064 nm	160 µJ	70 µJ	50 µJ	25 µJ	300 µJ
Max. Pulse Energy at 532 nm	60 µJ	30 µJ	20 µJ	12 µJ	120 µJ
Max. Pulse Energy at 355 nm	30 µJ	20 µJ	12 µJ	6 µJ	70 µJ
Max. Pulse Energy at 266 nm	15 µJ	10 µJ	4 µJ	2 µJ	20 µJ
Pulse Width at 1064 nm (FWHM)	< 800 ps @ 1 kHz	< 1000 ps @ 25 kHz	< 1100 ps @ 50 kHz	< 2000 ps @ 100 kHz	< 3000 ps @ 10 kHz
Power Stability at 1064 nm (RMS)	< 5%	< 5%	< 5%	< 5%	< 7%
Max Average Power	800 mW	1700 mW	2500 mW	3000 mW	1750 mW
Bandwidth	< 1 nm				< 1 nm
Polarisation	> 1:100 plane polarised				> 1:100 plane polarised
Spatial Mode	TEM <sub>00</sub>				TEM <sub>00</sub>
Beam Waist Size	0.20 mm (nominal)				0.20 mm (nominal)
Beam Divergence	7.0 mrad (nominal)				7.0 mrad (nominal)
Beam Ellipticity	< 10 %				< 10 %
Operating Environment	ambient 15-30 °C and above dew point				ambient 15-30 °C and above dew point
Jitter to external trigger	< ± 0.4 ns				< ± 0.8 ns
Electrical Supply	110-250 VAC, 50/60 Hz				110-250 VAC, 50/60 Hz
Power Consumptions	< 100 W				< 100 W
Dimensions Laser Head (L x W x H)	310 x 200 x 68 mm				310 x 200 x 68 mm
Dimensions Power Supply (L x W x H)	438 x 44 x 465 mm				438 x 44 x 465 mm
Weight Laser Head	7 kg				7 kg
Weight Power Supply	5.8 kg				5.8 kg



InnoLas follows a policy of continuous product improvement. All specifications are subject to change without notice. All specifications at 1064 nm unless otherwise noted.

InnoLas Laser GmbH is DIN EN ISO 9001 certified.



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