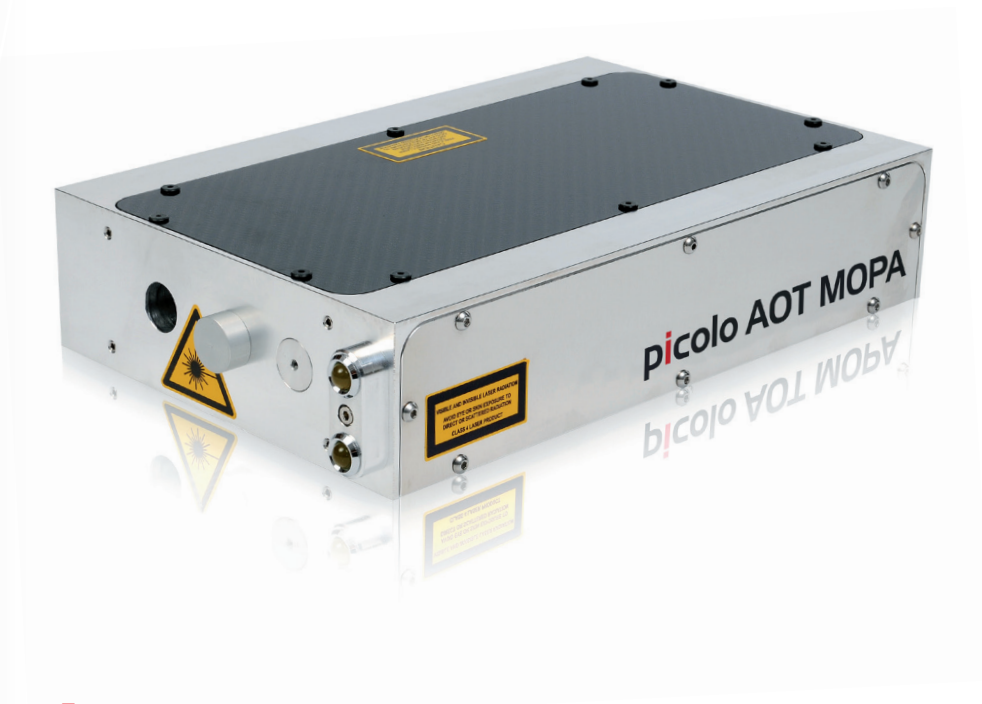


# picolo

Sub-Nanosecond Lasers

## picolo AOT MOPA

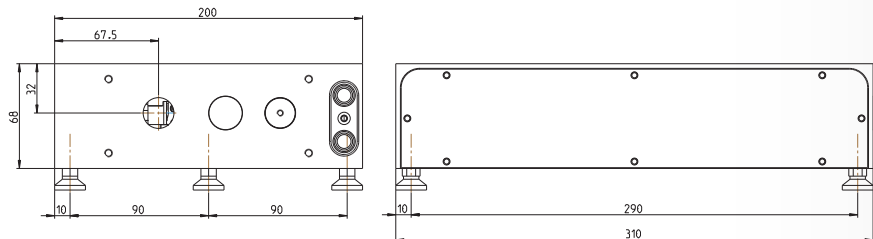


### Features

- \* 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

# pico AOT MOPA

Model	pico AOT 1-MOPA	pico AOT 25-MOPA	pico AOT 50-MOPA	pico AOT 100-MOPA	pico AOT YAG
Max rep-rate	up to 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 $\mu$ J	70 $\mu$ J	50 $\mu$ J	25 $\mu$ J	300 $\mu$ J
Max. Pulse Energy at 532 nm	60 $\mu$ J	30 $\mu$ J	20 $\mu$ J	12 $\mu$ J	120 $\mu$ J
Max. Pulse Energy at 355 nm	30 $\mu$ J	20 $\mu$ J	12 $\mu$ J	6 $\mu$ J	70 $\mu$ J
Max. Pulse Energy at 266 nm	15 $\mu$ J	10 $\mu$ J	4 $\mu$ J	2 $\mu$ J	20 $\mu$ J
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	< $\pm$ 0.4 ns				< $\pm$ 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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