


# qualified.

Fiber seed lasers for micro-machining systems



## PicoFYb 1030/1064

Cost-effective german quality fiber seed laser

- Highest lifetime: TOPTICA proprietary SESAM modelocking technology
- Highest long-term stability: Perfect spectral matching to amplifier
- Ease of use, most compact and reliable: All-PM fiber technology
- Ideally suited trigger for pulse-picking
- Fiber laser from the expert: Industrial quality Made in Germany 

learn more...



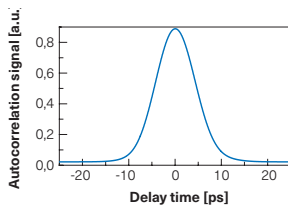
[www.toptica.com/qualified](http://www.toptica.com/qualified)

# PicoFYb 1030/1064

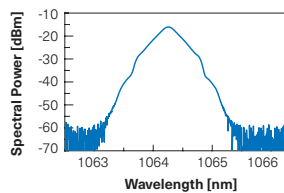


WARNING – VISIBLE AND INVISIBLE  
LASER RADIATION  
AVOID EXPOSURE TO BEAM  
CLASS 3B LASER PRODUCT, EN60825-1:2014

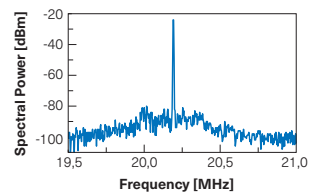
PicoFYb	1030	1064
Wavelength [nm]	1030.5 ± 0.5	1064.3 ± 0.5
Pulse duration [sech <sup>2</sup> ]	typ. 6.5 ± 1 ps	typ. 5.5 ± 1 ps
Average power [mW]	> 20 (typ. 25)	> 50
Output	FC/APC fiber pigtail, 30 ± 2 cm long	
Repetition rate [MHz]	30 ± 0.5	20 ± 0.5
Spectral width [nm]	< 0.4	< 0.5
Polarisation [dB]	PER > 20 dB	
Beam Shape	TEM <sub>00</sub> , M <sup>2</sup> < 1.2	
Trigger Signal (SMA connector)	> 150 mV @ 50 Ohm (300 MHz BW), positive	
Spectral width	< 0.5 nm	
Time-Bandwidth-Product	< 0.5 (typ.)	
RF side mode suppression	> 50 dBc	
Peak-to-peak noise	< 3 %	
Output coupling	SM/PM 980 fiber pigtail with narrow key FC/APC connector, length > 20 cm	
Dimensions laser head	50.2 x 135.1 x 176.5 mm <sup>3</sup> (H x W x D)	
Weight laser head	< 2 kg	
Power supply	12 VDC	
Power consumption	< 10 Watt	
Interfaces	TTL control lines, Switchbox (optional) or remote control (RS-232)	
Environment temperature	15 - 40 °C (operating), 0 - 40 °C (storage and transport)	
Environment humidity	Non-condensing	



Intensity Autocorrelation  
typ. 5.3 ps pulse duration (fourier-limited)



Emission spectrum  
typ. 0.46 nm bandwidth (-3 dB)



High RF noise suppression  
clear signal, < -50 dBc