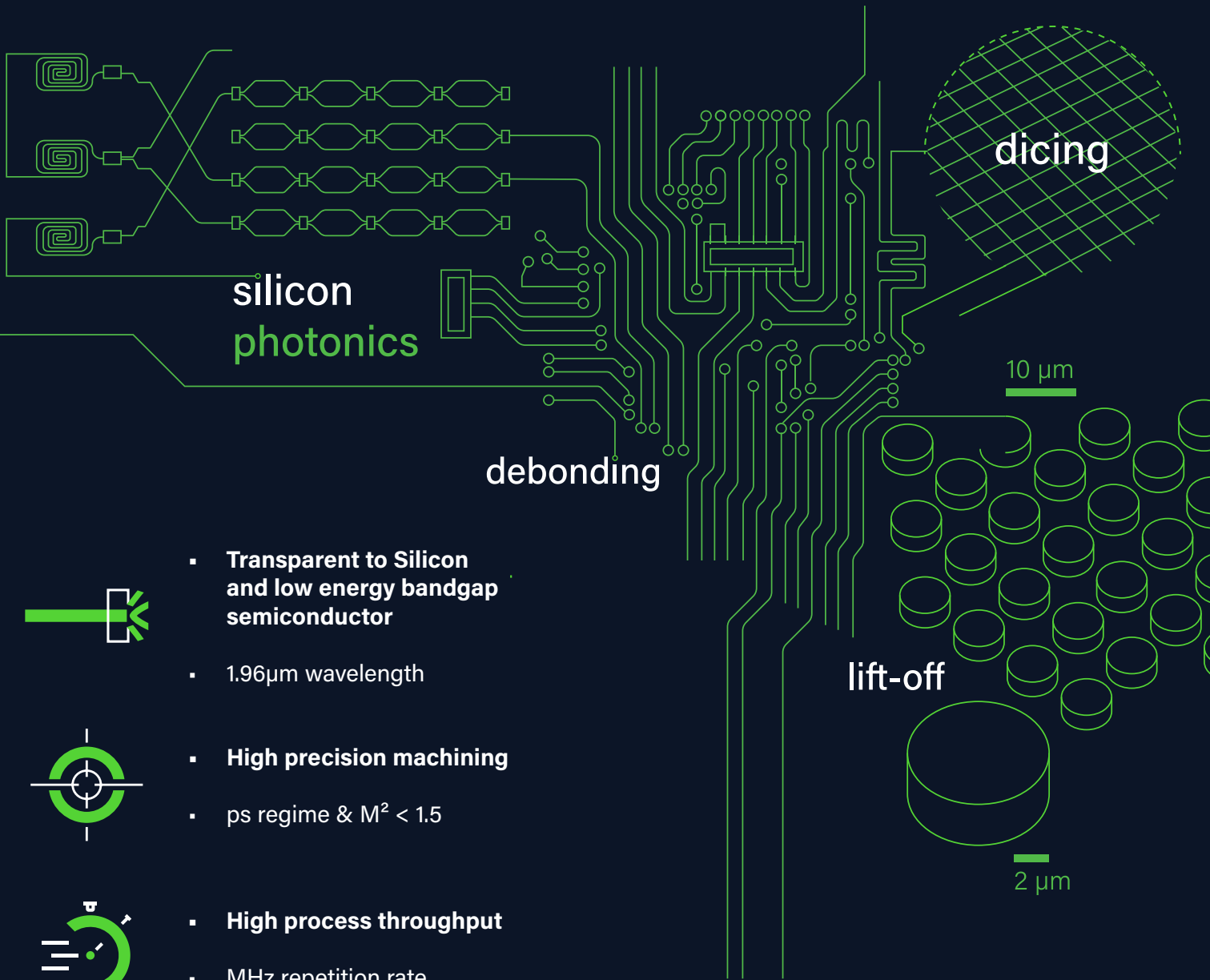


The mid-IR μ J class laser

Brevity High Power (BHP) is a turn-key picosecond fiber laser emitting at 1.96 μ m. The very high peak power associated to the long wavelength allow the use of this laser in a wide range of industrial applications. Taking advantage of semiconductor (silicon) transparency around 2 μ m, BHP is particularly suited for any application in the filed of microelectronics and display needing to process through the silicon (lift-off, wafer debonding) or in the bulk of a wafer (stealth dicing, waveguide scribing). BHP is then your best candidate when conventional wavelength does not meet your demand!



- **Transparent to Silicon and low energy bandgap semiconductor**



- 1.96 μ m wavelength
- **High precision machining**
- ps regime & $M^2 < 1.5$



- **High process throughput**
- MHz repetition rate



- **Rock solid**
- All fiber oscillator and amplifier design

The mid-IR μ J class laser

Optical specifications

_____	Central wavelength	1.96 μm \pm 20 nm
_____	Average power	> 1 W
_____	Pulse energy (at 100kHz)	> 1 μJ
_____	Repetition rate	1 MHz* - Burst mode operation compatible
_____	Pulse width	< 2 ps (FWHM assuming sech² fit)
_____	Average power stability (RMS over 8 hours)	< 2 %**
_____	Pulse energy stability (RMS over 1000 consecutive shots)	< 2 %
_____	Beam pointing stability	< \pm20 μrad/K
_____	Laser output	Collimated
_____	M ²	< 1.5
_____	Polarization state	Linear (PER > 20dB)

Options / accessories

_____	Process shutter	Pulse on demand operation
_____	Variable attenuator	10 - 100% transmission

Electrical specifications

_____	Operation voltage	100-240 V VAC 50/60Hz
_____	System cooling: water cooling	Water cooling (Water-Air chiller included)
_____	Operating temperature	+20°C to +30°C

* Lower repetition rate on demand

** Upon stable environmental conditions 21°C \pm 2°C

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