Application Examples of InnoSlab Lasers

**Rapid Tooling**
Wave length: 1064nm or 532nm
Beam profile: □
Pulse length: ns or ps
Rep rate: 100kHz to 2MHz
Volume rate: up to 1mm³/s

**Cutting of Tempered Glass or Sapphire**
Wave length: 1064nm or 532nm
Beam profile: □
Avg. Power: up to 200W
Pulse length: ps or fs
Volume rate: 2mm³/s
Cutting speed: 1000mm/s

**Cutting of Stents**
Wave length: 1064nm or 532nm
Beam profile: □
Pulse length: 10ps
Pulse energy: up to 300μJ
Rep rate: up to 1MHz

**Cutting of Glass**
Wave length: 532nm
Beam profile: □
Pulse energy: 0.4mJ
Pulse length: ns
Rep rate: 100kHz
Thickness of glass: 1mm
Cutting speed: 10mm/s

**Surface Structuring**
Wave length: 1064nm
Beam profile: □
Pulse length: 10ps
Pulse energy: 30μJ
Structure size: μm + nm

**Electrode Slots in Glass e.g. Solar**
Wave length: 532nm
Beam profile: □
Pulse energy: 0.4mJ
Rep rate: 50kHz
Slot size: 2mm x 4mm
Cycle time (2 slots): 10sec

**Cutting of CFRP**
Wave length: 1064nm
Beam profile: □
Pulse length: 10ps
Pulse energy: 30μJ
Rep rate: up to 1MHz
Volume rate: 80mm³/min

**Particle Image Velocimetry**
Configuration: dual oscillator
Wave length: 532nm
Beam profile: □
Aerosol seeding
Frame rate: 2 x 10000fps

**Cutting of PCB**
Wave length: 355nm
Beam profile: □
Pulse length: 10ps
Pulse energy: 30mJ
Rep rate: 1MHz
Cutting speed: 1000mm/s

**Pumping Dye Lasers**
Wave length: 355nm or 532nm
Beam profile: □
Pulse energy: 10mJ/30mJ
Pulse length: 7ns
Rep rate: 10kHz

**Ablation of Thin Film e.g. Solar**
Wave length: 532nm or 1064nm
Beam profile: □
Pulse energy: 10μJ-1mJ
Rep rate: 50kHz-20MHz
Energy density: 7J/cm²

**High Speed OH-LIF**
Excitation: 283nm
Emission: 308nm
UV pulse energy: 22μJ
Rep rate: 5kHz
Frames speed: 5.000fps

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