

Beam Shaping Optics Nanosecond Lasers Crystals
Spectroscopy Tunable Lasers DPSS/Diode Modules
Picosecond Lasers Femtosecond Lasers
Autocorrelators Optics & Mechanics

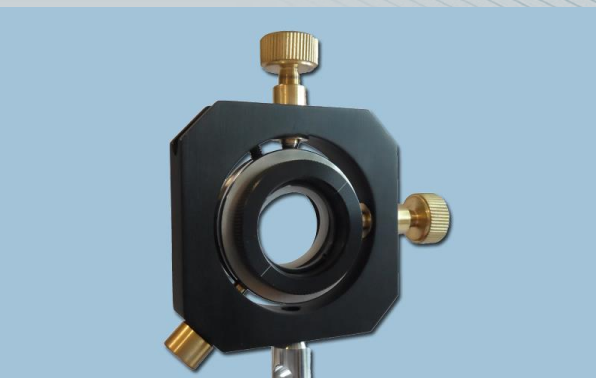
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New Femtosecond Laser FemtoLux30

Laser manufacturer Ekspla presents a new industrial laser with 30W at 1030nm, tunable pulse duration from 350fs to 1ps and up to 4MHz repetition rate. The fiber laser delivers >90µJ max pulse energy and >250µJ using burst mode. The new dry cooling method redefines reliability and requires zero maintenance. FemtoLux30 is a perfect tool for manufacturing microelectronics, structuring of brittle materials like glass, sapphire or ceramics and for high precision micromachining of metals and polymers

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Top Hat Beam Shaper GTH for UV to IR

TOPAG now offers an improved version of her Top Hat Beam Shaper series GTH-S-5.0-16.0 for generating square Top Hat profiles from Gaussian input beams. Required input beam is 5mm, full fan angle 16mrad. By varying focal length it is possible to scale Top Hat size and working distance. Thus, focal length of the additional focusing optic determines Top Hat width which is typically in the range from 500µm to 50mm. The new freeform optics are made of UVFS instead of LF5 which extends the wavelength range from UV to IR. Different broadband coatings are available.

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2021 Innovators Award for Orpheus-MIR

Tunable femtosecond laser Orpheus-MIR from manufacturer Light Conversion received 2021 innovators award from renowned journal Laser Focus World. The optical parametric amplifier is pumped with femtosecond lasers like Pharos or Carbide and delivers broadband femtosecond pulses >800cm⁻¹ in the tuning range from 2.5 to 10µm and pulse durations <100fs. Compared to previous Ti:Sa-based solutions with <10kHz, Orpheus-MIR enables experiments with much higher repetition rates up to 2MHz. Typical applications are broadband SFG, TR-ARPES and high-harmonic generation (HHG).

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Upcoming Events

▲ Lasertagung Mittweida | Mittweida, Nov 10 - 11, 2021