



ENERGY

CPA based system with
up to 150 mJ pulse energy

FEATURES

- wavelength: 1030 nm +/- 1 nm
- up to **150 W** average power
- pulse duration: 1 ns, compressible to < 2 ps
- pulse energy from 15 mJ up to **150 mJ**
- repetition rates from **1 kHz** to 10 kHz
- power modulation 0-100%: < 10 s
(< 500 ms optional)
- shutter closing time: 100 ms
- power stability: < 1.5% RMS
- pulse energy stability: < 4% RMS
- warm-up time: < 30 min

Beam Parameter

- high beam quality ($M^2 < 1.4$)
- beam astigmatism: < 10%, best effort: < 5%
- beam diameter: 6 mm; beam circularity: > 90%
- beam waist inside laser
- external optical feedback allowance: > -20 dB
- beam pointing stability: < 50 urad
- polarization: vertical (extinction ratio > 100:1)

INTERFACE

- visual control interface, programable
- safety interlock, laser sync output

ELECTRICAL CONTROL

- external trigger frequency dithering: > +/- 5%
- external trigger input/ laser sync output : TTL

DIMENSIONS/WEIGHT

- laser head 650 kg, (80 x 70...190 x 30) cm³
- compressor 450 kg, (80 x 70...190 x 30) cm³
- rack 200 kg, (100 x 80 x 56) cm³
- connection rack/head: 3 m (7 m optional)
- chiller (dry) 150 kg, (100 x 108 x 38) cm³

OPERATING CONDITIONS

- power supply 3 phases 380 V, 50 Hz + N + ground, CEE 32 A plug
- power consumption < 4 ... 6 kW
- cooling water requirements:
20 l/min @ 5 °C – 40 °C, 3 ... 5 bar, barbed fittings 13 or 16 mm inner diameter, water quality filtered 80 µm recommended, low chlorine concentration (< 200 mg/l)
- laser head purged with dry air
- 20 – 25 °C, low humidity, +/- 1K



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