Diode Lasers & Solid-State Lasers for Medical Applications
Hair Removal & Dermatology

Safe, gentle & effective hair removal as well as treatment of vascular lesions, wrinkles, acne, fat cells or pigments and tattoo removal.

JOLD-x-QA-2x8A

QCW diode laser stack in housing
Peak power: up to 1,600 W
Wavelength: 808, 940 nm

Features:
- Up to 120 J / cm² @ 400 ms pulses
- Passively or tap water cooled
- Light weight (98 g)
- Version with FA collimated beam available
- > 1 GShot

JOLD-x-CANN-xA

Vertical diode laser stack, actively cooled
Power: up to 1,200 W, cw / pulsed
Wavelength: 760, 808 and 9xx nm

Features:
- Version with FA/SA collimated beam available
- Available with 4, 6, 8, 10, 12 submounts
- > 1 GShot

Ophthalmology

The application of photocoagulation of the human retina is the most common laser surgery. This therapy treats age-related macular degeneration (AMD) or diabetic retinopathy.

JenLas® D2.mini

Diode-pumped thin-disk laser, frequency-doubled
Power: 2, 3, 5, 8 W, cw
Wavelength: 532 nm

Features:
- Small footprint
- Low heat dissipation
- OEM design
- Available with electronic & fiber-coupling units

Customized Laser Modules

Plug-in units including laser sources, electronics and optomechanics from one hand

Features:
- Certified as medical electrical equipment (IEC 60601-1)
- Combination of laser sources with driver & control electronics and heat management
- Aiming beam
- Power monitoring (redundant)
- Fiber-coupling with redundant inductive detection
- Customized interfaces
Surgery

Medical diode lasers can be used for coagulating blood vessels or cutting tissue (frenectomy). The laser vaporisation is an effective method for removing cancer cells.

**JOLD-20-FCM-14**

Fiber-coupled diode laser, passively cooled

*Power:* up to 20 W, cw

*Wavelength:* 1,470 nm

**Features:**
- Fiber core diameter of 400 μm (NA 0.22)
- Integrated aiming beam and 2 power monitors
- 2 Internal fiber detectors (can be used for interlock)
- Exchangeable blast shield

**JOLD-x-CPXF-1L**

Fiber-coupled diode laser, passively cooled with integrated TEC

*Power:* 30 / 45 / 75 W, cw

*Wavelength:* 808, 880, 915, 940, 976 nm

**Features:**
- Fiber core diameter of 400 μm (NA 0.22)
- Aiming beam and power monitor
- TEC integrated

Lasers for Medical Applications by Jenoptik

Today’s medical equipment integrates a great variety of laser systems with different performance features. The demand for cost efficient and reliable lasers in medical treatments increases due to the aging population and the quest for beauty.

Jenoptik offers high-brightness and reliable OEM diode lasers as well as compact OEM solid-state lasers that are cost effective and ideal for integration into medical therapy systems.

Compact, efficient and easy to integrate

JENOPTIK Optical Systems GmbH offers the entire technology chain in the field of OEM laser sources. Starting from high-quality unmounted semiconductor materials to reliable high-power diode lasers towards solid-state lasers, e.g. thin-disk lasers. You will get components and systems from one reliable supplier.

JENOPTIK Optical Systems GmbH belongs to the Jenoptik Group and is a company of the Light & Optics division having its business in the high-tech center of Jena in Germany.

Note: Customized designs, other output powers and wavelengths on request.