



MORE LIGHT

JenLas® *pico 16*

New ways in laser micromachining and marking enabled by Jenoptik's industrial ultrafast lasers.

Applications

JenLas® *pico 16* is a class 4 OEM laser source for

- Black marking appropriate for unique device identification (UDI) of medical devices
- High contrast marking on ceramics & polymers
- Scribing, engraving & drilling of ceramics & metals
- Selective thin film ablation
- Suitable for thermal sensitive & brittle materials (e.g. NiTi, glass)

Features

- MHz Burst mode
- High pulse energy
- Completely air-cooled, no water in the system
- Customer access to worldwide sales & service support
- Optional: SHG module, pilot laser, safety shutter, external-dimmer
- Compact mechanical design
- Designed for straight-forward machine integration
- Any mounting orientation
- Minimized thermal effects by picosecond laser processing
- Low cost of ownership
- Completes Jenoptik ultrashort laser product portfolio

Picosecond laser for micromachining and marking

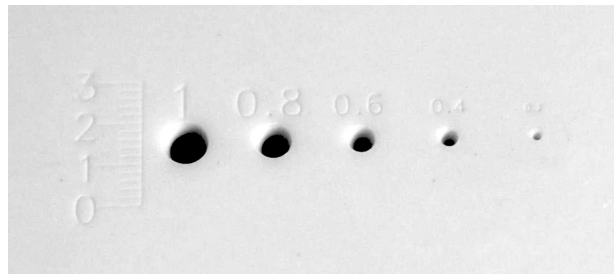
JenLas® *pico 16* | Specifications

General Properties	JenLas® <i>pico 16</i>
Wavelength	1064 nm
Maximum average output power	16 W @ 500 kHz
Pulse energy	max. 300 µJ (20 kHz)
Pulse repetition rate	20 – 500 kHz and single shot
Burst mode	2 – 20 pulses (65 MHz)
Beam quality M ²	< 1.5
Typical pulse width (sech ²)	< 15 ps
Polarization	linear
Control Interfaces	
Interface connection	USB
Software	GUI/DLL (windows 7 or above)
Operating Conditions	
Ambient temperature	20 – 30 °C
Cooling	air cooled
Electrical Properties	
Power supply	100 – 240 VAC, 50/60 Hz, 600 W
Mechanical Properties	
Dimensions (W x H x L) / weight	Laser head: 302 mm x 200 mm x 480 mm / 38 kg Power supply: 19" x 4 RU x 482 mm / 23 kg
Cable length laser head/power supply	2 m

Application examples



Corrosion-resistant black marking on an orthopedic implant



Cold marking and drilling of Al₂O₃ ceramics

It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.