



## JenLas<sup>®</sup> disk IR70

IR disk laser, tunable pulse length



### Advantages:

- Laserparameter adjustable
- Passively-cooled diodes
- High pulse repetition rate
- Fast AOM power control
- Disk laser design

### Benefits:

- Optimized application
- Long Life Performance
- Fast processing
- Flexible application
- Superior beam quality over power range

### Applications:

- Solar cell processing
  - MWT (Metal Wrap Through)
  - EWT (Emitter Wrap Through)
  - LFC (Laser Fired Contacts)
- Wafer dicing / scribing
- Microcutting (e.g. Stents Cutting)
- Microdrilling
- Microstructuring
- Engraving

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## IR disk laser, tunable pulse length

### Specifications

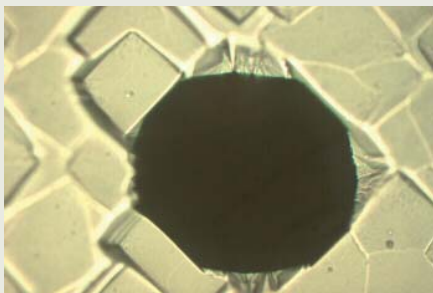
Parameters	Basic Features	With Pulse & Frequency Control (Parameter Set of „Basic Features“ are included)
Laser	Disk laser	Disk laser
Wavelength	1030 nm	1030 nm
Output power	> 65 W @ 30 kHz	> 58 W @ 30 kHz
Polarization	linear	linear
Beam Quality	$M^2 \leq 1.2$	$M^2 \leq 1.2$
Beam Diameter	1.4 mm	1.4 mm

Q-switched operation		
Pulse energy	> 7 mJ @ 8 kHz	> 6 mJ @ 8 kHz
Pulse repetition rate	8 ... 30 kHz	8 ... 100 kHz
Pulse length (typ.)	650 ... 1600 ns (dependent on repetition rate)	200 ... 1100 ns (independently adjustable)
Options	Aiming Laser Beam Expander	Aiming Laser Beam Expander

Mechanical specifications	
Laser head	
Dimensions (L x W x H)	865 mm x 340 mm x 184 mm
Weight	approx. 50 kg
Power supply	
Dimensions (W x H x D)	19" x 4 RU <sup>1)</sup> x 500 mm
Weight	approx. 15 kg
Chiller	
Dimensions (W x H x D)	19" x 7 RU <sup>1)</sup> x 650 mm
Weight	approx. 65 kg

<sup>1)</sup> RU = Rack Unit (1 RU = 1,75 inch = 44,45 mm)

### Applications



Drilling of Si wafer for back contact of solar cells (MWT technology)



Drilling microstrainer pattern in 0.3 mm stainless steel



Deep engraving in a refractory Titanium alloy

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



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