



方全有限公司

Rapitech Enterprise Co., Ltd.

連續式固態雷射

Continuous Solid-State Laser



Laser
QUANTUM



forte



Forte系列 紅外線雷射

Forte Highly Compact CW Infrared Laser

Typical Applications

- optical tweezers
- imaging systems test
- near IR optical testing

The forte 1064 offers up to 1.0 W of variable output power in a rugged package. The system is available with a choice of power supply units to suit the application. With excellent stability and beam characteristics, this laser is ideal for optical tweezers and nondestructive testing applications.

Specifications

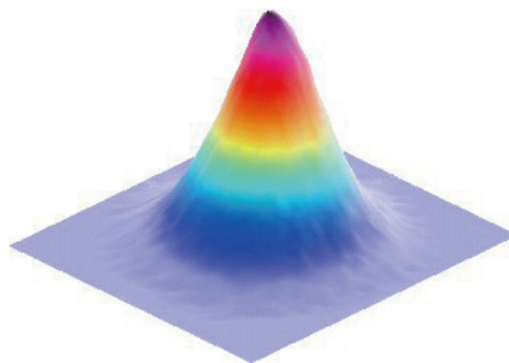
power	0.1 - 1 W
wavelength	1064 nm
beam size	2 mm
ellipticity	2.5
spatial mode	TEM ₀₀
bandwidth	60 GHz
divergence	2 mrad
M-squared	2.5
power stability	< 1.0 % rms * ¹
RMS noise	< 0.5 %
noise bandwidth	1 Hz to 100 MHz
polarisation ratio	100:1
polarisation direction	vertical
coherence length	5 mm
beam angle	1 mrad * ²
operating temperature	10 - 40 deg C
head weight	0.4 kg
umbilical length	1.5 m
warm-up time	10 min

*1. test duration 8 hrs

*2. tolerance relative to head orientation

Features

compact, sturdy design
zero stress,
permanently aligned cavity
hermetically sealed
scientific power supply
extended warranty available
single phase mains driven
diode 18,000 hrs MTBF
diode 18,000 hours MTBF
direct modulation upto 30 kHz



The forte's beam fits a near perfect gaussian profile in both directions.

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