



# SINTEC NEWSLETTER

Sintec Optronics

Laser Expert in Singapore

November 2018 Issue

www.Sintec.sg

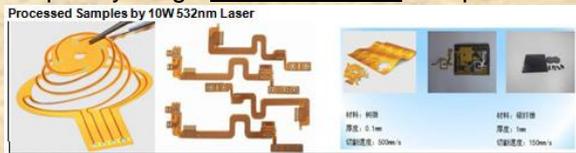
www.SintecOptronics.com

## Quality and Excellence, presented by Sintec Optronics

### \*NEW\* 532nm & 355nm DPSS Q-switched laser

In order to meet the requirements of precise processing in industrial, we developed a 532nm end-pumped Q-switched laser. The adoption of water cooled system allows laser source to have stable performance, smaller size, compact structure and low power consumption. The output laser beam is the fundamental mode, the beam quality is good, and the peak power is high, which can meet most industrial precision processing requirements.

Features:  
Thanks to the integrated design, the product has compact structure, small size, light weight, low power consumption, stable operation over time and good beam quality. The laser's driver has a simple design and a user-friendly operation interface. It is extremely convenient for user to install and debug it, besides user also can adjust and control the laser power and repetition frequency output at any time in order to meet various need. We currently have up to **60W** of output power with frequency range **60KHz-100KHz** and pulse width of **<15ns** !



Cutting of FPC boards



Marking



Painting removal

### Applications:

The DPSS green laser is suitable for processing and marking characters, patterns, batch numbers, production dates, Bar code, logo on a variety of materials, such as nylon, ABS, PVC, PES, coating materials, spray materials, plastic rubber, epoxy resin and others. The marked graphics are high resolution and beautiful. At present, the DPSS green laser marking machine has incomparable performance in many fields such as craft craving, electronic devices, pipeline materials, and film etching, which other types of laser marking machine cannot achieve.

### \*NEW\* 200W portable Laser cleaning machine for cleaning rust

We are now offering 200W portable laser cleaning machine for cleaning rust and paint removal.



Standard mobile cabinet with rollers and integrated laser cleaning head



Sample: propeller gear shaft  
Base material: 40Cr  
Laser Eraser: Standard Type  
Erasing Efficiency: 1400mm<sup>2</sup>/s  
Erasing Effects: surface undamaged and no rust left behind

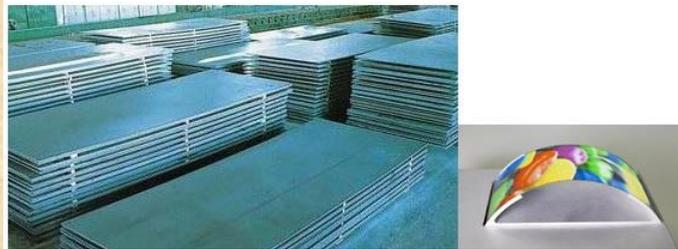


Sample: chuck  
Base material: alloy steel  
Laser Eraser: Standard Type  
Erasing Efficiency: 1700mm<sup>2</sup>/s  
Erasing Effects: surface undamaged and no rust left behind



Solar

Drilling of sapphire



Welding & cutting of aluminum-coated zinc plate



## Laser Flash lamps

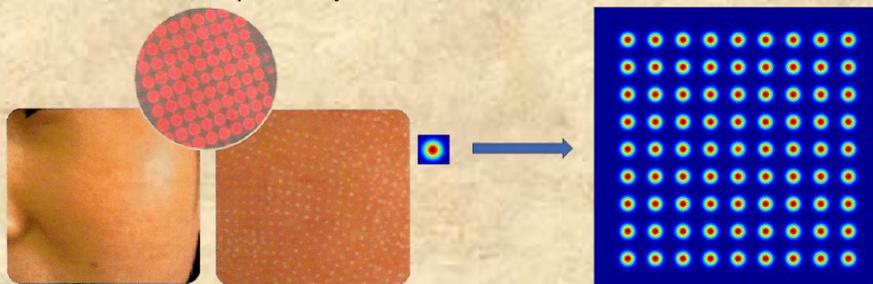
Laser lamps are mercury-free gas discharge lamps used to pump solid-state lasers in many laser applications like welding, cutting and marking. They are especially suitable for high-power lasers or lasers with high precision requirements.

Also for non-laser applications like IPL hair removal, ultraviolet (UV) curing, sun simulation and rapid thermal processing of silicon wafers, pulsed laser lamps are increasingly used. Their main advantages in these applications are their broad spectral output and their high powers.

Check our catalog: <http://www.sintec.sg/products/LaserParts/1238.html>

## NEW\* Diffractive Optical Element (DOE) for skin resurfacing

Skin resurfacing includes a wide range of treatments meant to rejuvenate the appearance of the skin from imperfections caused by many factors, including acne, scarring, and excessive sun exposure. Multispot elements have proven to be effective in assisting with more efficient skin resurfacing procedures. Creating a 2D matrix of smaller laser beams covers more area of the skin than a single laser beam, thus reducing procedure time. Moreover, healing time is shorter and more effective because the laser affects the skin in an even pattern, and the unaffected skin between spots allows for a shorter migration path for epidermal stem cells to develop and rejuvenate the skin.



Relevant products: Beam splitter  
Common wavelengths: 10600 nm (CO2), 2940 nm (Er:YAG)

## NEW\* Diffractive Optical Element (DOE) End of the Year Stock Clearance!

15-20% discount on all in-stock Diffractive Optical Elements (DOE)!! Valid on orders placed before December 27th, for items available from stock (limited to 3 pieces per PN). Inquire our DOE catalog now !

## NEW\* ITAP exhibition in Singapore (16-18 Oct 2018)

We exhibited at ITAP exhibition in Singapore from 16-18 Oct 2018.



## Promotional items!

We are currently overstocked on items such as Q-switch drivers, laser lamps, CO2 focusing lens and CO2 f-theta lens, high power fiber cable, ceramic reflectors, Optical galvanometers that supports 12-30mm apertures, and galvo drivers. Inquire about our stock items now and receive large discount! Our LSLC-DIGI self-tuning scanheads are on offer too!

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