



Sintec Optronics

June 2016 Issue

SINTEC NEWSLETTER

Laser Expert in Singapore

<http://www.SintecOptronics.com>

Quality of Excellence, presented by Sintec Optronics

Laser Cleaning machine*NEW

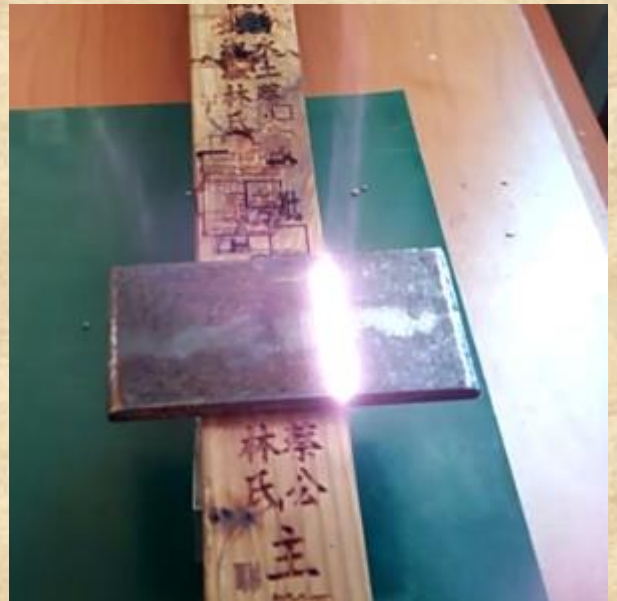
Last month, we mentioned in our newsletter that we are developing Laser Cleaning Machine. Now, we are very pleased to announce our brand new prototype laser cleaning machine is completed!!! We only have low power 50W version available now. Please see the video to see how quick the cleaning is: <https://youtu.be/6vHzInoz0CE>

We developed a special customized head which focusses the laser beam into a line. The head is specially designed to be handheld and light, so that a human can easily hold it and move it around as you can see in the video! The focused laser beam quickly reacts with the light-absorbing coatings and removes rust/oxides, oil grease and production residues. Since metals are highly reflective, once the contaminants are removed, the newly exposed metal will reflect most of the laser light, thus sustaining no damage to the metal! This is great for industrial, military, and shipyard – production intensive de-coating.

We are working very closely with local polytechnic to continue to develop higher power versions up to 1000W or more to enable faster cleaning !

Applications:

- Rust-removal
- De coating
- Paint removal
- Labeling & Marking
- Micro-structuring on surfaces
- Mold cleaning and De-oiling
- Pre-treatment for adhesive bonding



Inquire about our 50W laser cleaning machine now !

UV Laser marking*NEW

We have done new testing on our UV 355nm marking machines. Our 355nm end-pumped diode laser is suitable for marking on various materials, such as nylon, ABS, PVC, PES, steel, titanium, copper, plating materials, coating materials, sprayed materials, plastic, rubber, epoxy resin etc.

Diode end-pumped laser has excellent applications in various fields, such as mobile phone, jewellery, crafts, scribing, film removing, laser marking & engraving, resistance trimming, range finding, scientific research, LED scribing, FPC cutting, micro-drilling (<10um in diameter), flexible PCB marking & scribing, silicon wafer micro-drilling and blind hole drilling etc.

Features

- Unique split type design
- Good beam quality. It is TEM00 with $M^2 \leq 1.2$. It can be used to mark fine lines, suitable for high precision marking applications.
- Fiber coupled diode pumping with high pumping efficiency & long lifetime (>20,000 hrs).
- The laser is sealed and it is anti-dusty.
- High performance price ratio.
- Simple control design for easy installation and operation.



See the pictures below for more examples of UV laser marking on different materials!



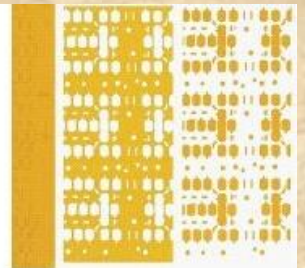
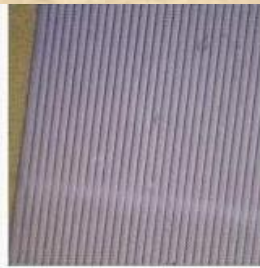
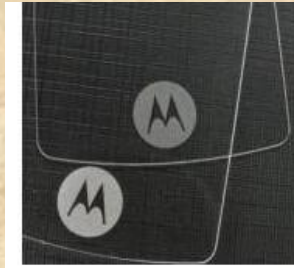
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LSSL-BC series

Our LSSL-BC series of scan heads are now faster and cheaper! With impressive dynamics, LSSL-BC is perfectly tailored for typical laser marking applications. The scan head achieves 800 characters per second with good marking quality, thus setting new standards in its class. LSSL-BC's 10-mm aperture is ideal for use with typical fiber lasers. And the housing's minimal volume facilitates integration into even the tightest spaces. LSSL-BC is available for three laser wavelengths (355 nm, 1064 nm or 10600 nm) and combinable with a number of objectives. Control is via the widely-used digital XY2-100 protocol.

Key benefits:

- Very fast writing speed
- Ideal for fiber lasers (full 10-mm aperture)
- Ultra-compact scan head, for easy integration
- Excellent price/performance ratio
- Dependable quality – *Made in Germany*



Promotional items!

We are currently overstocked on items such as Q-switch drivers, laser lamps, CO2 focussing 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!

Price reduction over all our products!

Our prices have also recently reduced over all our product range! Please inquire our sales for updated price lists !

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