



## Quality and Excellence, presented by Sintec Optronics

### Ceramic CO2 Lasers \*NEW

The leading reliability issue with metal-tube lasers is that the metal is highly reactive with the gas mixture. Over time, as internal components wear, "scrub" each other's surfaces, exposed Aluminium oxidizes and changes the composition of the original gas mixture. Ceramic CO2 laser tube technology solves these problems by moving all the reactive components to the outside of the laser tube leaving only pure clean Alumina ceramic in contact with reactive gasses. Alumina does not react with the gas. The ceramic CO2 laser tube is also the optical backbone that holds the resonator optics. The thermal expansion of alumina is 1/3 that of aluminum. Due to this thermal stability, our Ceramic CO2 laser tube has significantly better stability performance when compared with metal-based CO2 lasers. Ceramic CO2 laser tubes allow for high pressure gas mixes and provide for faster rise and fall speed as well as much better power stability.

#### Features

- **3 times more stable** compared to metal-based CO2 lasers
- **50,000 hours lifetime guaranteed** compared to 20,000 hours offered by metal-based CO2 lasers
- **Replace laser for free if failure before 50,000 hours!** (but not for any electronics fault)
- Warranty of 2 years
- No need to recharge gas for 7 years!



### MoTex zoom beam expander

MoTex is a zoom beam expander, designed for automated applications. It combines 5 separate lenses to provide variable magnification from x2,5 to x12. Control solution of the beam expander is versatile - making it controllable either remotely from computer or directly with control buttons. Driver and all the motors are integrated in the casing of beam expander, even though it is compact and convenient for usage. Standard wavelengths are 1st-3rd Nd:YAG harmonics, but any custom wavelength is available on request.



### Customized Picosecond laser processing machine \*NEW

We have developed a picosecond laser processing machine inspired by user requirements! This laser machine uses a high pulse energy picosecond laser source (average powers available from 10W to 50W). This laser machine is capable of high precision marking applications on user-required materials. The height requirement of this machine was to mark on huge metal cylinders. The short pulse width of the laser pulses means that the peak power is very high but average power is reduced so that it is able to do "cold" marking on certain flammable material without igniting flames! This is a unique laser machine showcasing our capabilities to customize our laser machines to the user requirements! Inquire to us about your laser machine customization needs now!



### 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!

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