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## bgLAB

### Tabletop laser micromachining workstation



This easy to use laser workstation is designed using the highest quality components. Furthermore, this platform meets the most exacting standards, but is small and affordable. This was achieved by using just two automated positioning axes, the others being manually adjustable, which is adequate for many surface-based applications. However, this direct drive stage-based system still allows manufacturing of sub 10 micron features. It can be externally combined with almost any DPSS laser source and run with pulse durations from ns to fs range as well as with wavelengths from IR to UV depending on your laser application. It can also be integrated with your existing laser sources. As there are only two direct drive axes for system automation, controlled is achieved using industry popular software solutions which are the same as used in mechanical processing CNC machines. The result is that even non

laser experts can operate the system. bgLAB is a perfect tool for university and high school laboratories as well as for small job shops and startups who are just beginning their journey into the fascinating World of laser manufacturing technology.

|  |                              |
|--|------------------------------|
| <b>XY positioning</b>                              |                              |
| Travel:  | 120 x 120 mm                 |
| Max speed:   | >500 mm/s                    |
| Accuracy:  | <2 $\mu$ m                   |
| <b>Z positioning</b>                               |                              |
| Manual adjustment of focus position in 50 mm range |                              |
| <b>Beam focusing</b>                               |                              |
| Fixed aspheric lens *:                             | Typical spot size <5 $\mu$ m |
| <b>Laser source</b>                                |                              |
| Pulse duration **::                                | 100 ns – 200 fs              |
| Wavelength **::                                    | 1064 -266 nm                 |

\* Depends on laser source beam quality and wavelength

\*\*Select when ordering. Not adjustable.



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