

# microMARK™ MCL

## MAINTENANCE-FREE DPSS UV LASER MARKING SYSTEM

3D-Micromac's microMARK™ MCL is a compact and maintenance free DPSS laser system to meet customer's demand for high-quality laser engraving with significantly decreased cost of ownership. The system is utilized for visible, invisible as well as for technical engravings of all kind of spectacle lenses as well as marking of hard and soft contact lenses. The use of a UV DPSS laser source achieves a high-quality marking result comparable to excimer laser engravings.

### HIGHLIGHTS

- High-quality laser engraving
- Accurate contrast adjustment
- Low investment and operating costs
- Maintenance-free laser source
- Plug-and-play replacement of main components directly by the customer





## microMARK™ MCL - SYSTEM CONFIGURATION



### Benefits:

- High-quality engraving with accurate contrast adjustment on a variety of spectacle lenses and coatings
- Low investment and operating costs
- Maintenance-free due to on-site installation and plug-and-play replacement of main components directly by customer
- Easy retrofit of automated handling system at customer's site on request

Suitable for	<ul style="list-style-type: none"> <li>• Branding and technical marking of blocked lenses</li> <li>• All kinds of materials including CR39, polycarbonate, high-index materials and even mineral glass</li> <li>• Technical and UDI marking of hard and soft contact lenses</li> <li>• Adapter for unblocked lenses and contact lenses available</li> </ul>
Productivity	<ul style="list-style-type: none"> <li>• 150 blocked lenses per hour with automatic handling</li> </ul>
System accuracy	<ul style="list-style-type: none"> <li>• ± 0.1 mm</li> </ul>
Laser source	<ul style="list-style-type: none"> <li>• Maintenance-free DPSS UV laser</li> </ul>
Beam delivery unit	<ul style="list-style-type: none"> <li>• Galvanometer scanner with F-Theta objective</li> <li>• Marking field of Ø 80 mm</li> <li>• Power regulation</li> </ul>
Software	<ul style="list-style-type: none"> <li>• Control software microMMI (convergent to existing laser solutions)</li> <li>• VCA/OMA interface prepared for the main surfacing line manufacturer</li> <li>• Easy-to-use layout editor including vector, bitmap &amp; logo import</li> <li>• Remote connection to client included</li> <li>• Data backup on request</li> </ul>
Options	<ul style="list-style-type: none"> <li>• Automatic handling system</li> <li>• Branding adapter solutions</li> <li>• Service and installation kit</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• 500 x 700 x 850 mm<sup>3</sup> (W x H x D) - as stand alone system</li> <li>• 1,050 x 1,600 x 2,200 mm<sup>3</sup> (W x H x D) - with automated handling</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• Laser class 1</li> </ul>

Other configurations on request.