

### Measurement Tool of Choice in Automobile and Aircraft Manufacturing

## LASER COMPONENTS USA to Demonstrate Structured Light Sources at Automate 2019

**Bedford, NH (USA):** At this year's Automate 2019 (Chicago, IL, April 08 – 11, 2019), LASER COMPONENTS USA, specialized provider of components and services in the laser and optoelectronics industry, demonstrates a versatile set of FLEXPOINT laser modules for complex measurement tasks in automobile and aircraft manufacturing. They enable seamless assembly and operation of parts in which the laser acts as an alignment aid or non-contact measurement tool. In combination with low-cost detectors or a camera and evaluation software, laser technology achieves more accurate and reproducible measurements in a short time – no matter the shape of the part – unlike traditional methods using taper gages, slip gauges, and Vernier calipers.

With the FLEXPOINT laser series, LASER COMPONENTS provides the automobile and transport industry new solutions to old manufacturing problems. Where rotational wobble threatens with wear, tear and lowered performance efficiency, the exactness of the dot or line laser can quickly ensure optimal alignment in the manufacturing process. Where gaps and seams threaten mechanical integrity, the line laser can raise the flag before the problem leaves the factory. In an era where superior engineering is signified by alluring body design, the ideal 3D form analysis can be generated by the right diffractive optical element and laser module.

FLEXPOINT laser modules consist of a cw laser diode (405-905 nm) or a DPSS (diode pumped solid state) module (532 nm), application-specific optics (dot, line, cross-hair, or DOE optics), electronics, and a potential-free housing. Different wavelengths and power levels as well as different drivers with digital or analog modulation increase the flexibility of the miniature laser system. A variety of FLEXPOINT laser modules feature a digital laser controller which is an important component for integration in modern Industry 4.0 control systems.

Since no two applications are alike, LASER COMPONENTS USA offers its customers the option of developing a custom laser module that is suited directly to the application and then produce it in series.

The range of FLEXPOINT lasers are being demonstrated at Automate at the LASER COMPONENTS USA booth 8536.

### Trade Shows

**Automate**, April 08 – 11, 2019, Chicago, IL, USA, **Booth 8536**  
**SPIE DCS**, April 16 – 18, 2019, Baltimore, MD, USA, **Booth 524**  
**Photonex Glasgow**, June 05, 2019, University of Strathclyde, UK, **Booth G25**  
**Sensors Expo & Conference**, June 25 – 27, 2019, San Jose, CA, USA, **Booth 419**  
**LASER World of PHOTONICS**, June 24 – 27, 2019, Munich, Germany, **Booth B3.303**  
**SPIE Optics+Photonics**, August 13 – 15, 2019, San Diego, CA, USA, **Booth 425**

### The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 230 employees worldwide.