

Manufacturing Complex Fiber Optics

Taper, Cleave, Bundle, Splice: Use One System for All

Taper, cleave, bundle, splice: the CMS can do it all. The new combiner manufacturing system by 3SAE is used to process optical fibers with a high reproducibility in the laboratory. The patented "thermally stabilized plasmaTM" technology ensures stable and, in particular, reproducible conditions across a temperature range of <300°C to >3000°C in order to manufacture tapers, combiners, and fiber bundles and to splice optical fibers and endcaps between 50 µm and 2.5 mm. The assembly prevents the contamination of the glass; this leads to the successful production of ultrahigh-power components for applications into the kilowatt range.

During processing, the user can change both adjustment platforms, the position of the electrodes, and the electric arc settings 25 times per second; this makes it possible to program highly-optimized processes. The handling of the complex system is easy: The taper manufacturing is done by software which is included and with which tapers as long as 175 mm can be designed and produced with different shapes. The integrated cleaver makes it possible to separate components at the desired position with micrometer precision.

More Information

<http://www.lasercomponents.com/de-en/product/3-axis-splicers-suited-for-use-in-the-laboratory-and-production/>

Trade Shows

VISION 2016, November 08-10, 2016, Messe Stuttgart, **Booth 1C33**

Electronica 2016, November 08-11, 2016, Messe München, **Booth B1.306**

SHOT Show, January 16, 2017, Las Vegas, NV, USA

SPIE Photonics West, January 13 - February 02, 2017, San Francisco, CA, USA, **Booth 2023**

Automate, April 3-6, 2017, Chicago, IL, USA, **Booth 2661**

SPIE Defense + Commercial Sensing, April 11-13, 2017, Anaheim, CA, USA

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 200 employees worldwide.