

Change the Spot

Accessories for Diffractive Optical Elements

Holo/OR's diffractive optical elements are mainly used for high-power laser beam shaping and splitting. The specifications provided are only valid for one optical assembly.

In many cases, the use of these elements is economical, despite their limited variability; however, a better variability is demanded. LASER COMPONENTS now introduces two new accessory products to the market: Holo/OR's DOE TUNER and the BEAM EXPANDER.

The DOE TUNER is a variable beam expander with a zoom range between 0.8 and 1.2. If the DOE TUNER is placed before a diffractive TopHat element in the beam path, the smallest ideal spot can be finely adjusted; when placed before multi-spot elements, the spot size can be adapted – without affecting the distance between the spots.

When placing the TUNER behind the DOE and before a focusing lens, the spot size can be adjusted in beam shaping elements; in multi-spot elements, the spot size can be adjusted in combination with the distance between the spots.

The BEAM EXPANDER is used similarly to the DOE TUNER. Instead of a zoom range, it has fixed zoom levels. The BEAM EXPANDER is available in two versions: five times or ten times the magnification. It was optimized for applications in combination with square TopHats and 2-D beam splitters.

Both lens systems feature very small wavefront errors and are especially suited for high-power applications.

More Information

www.lasercomponents.com/lc/optics/optical-components/diffractive-optical-elements/

Trade Shows

Photonex London, April 11, 2016, Imperial College London, **Booth S8**

BREKO Glasfasermesse, April 12-13, 2016, Messe Frankfurt/Main, **Booth 7**

SPIE DCS, April 19-21, 2016, Convention Center Baltimore USA, **Booth 542**

S.E.E., April 19-21, 2016, Kistamässan Stockholm Schweden, **Booth C07:58**

LME, April 26-27, 2016, Cobb Galleria Centre Atlanta USA, **Booth 516**

Control, April 26-29, 2016, Messe Stuttgart, **Hall 1, Booth 1635**

The Vision Show, May 03-05, 2016, Hynes Convention Center Boston Massachusetts USA, **Booth 656**

analytica, May 10-13, 2016, Messe München, **Booth A2.500**

Sensor + Test, May 10-12, 2016, Messe Nürnberg, **Hall 1, Booth 256**

LaSys, May 31-June 02, 2016, Messe Stuttgart, **Booth 4A16**

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.