

## DBS-4x4 4x4 Diffractive Beam Splitter

### PRODUCT FEATURES

- ▲ Separation of the input beam into sixteen beams
- ▲ Thin single optical element

### APPLICATIONS

- ▲ Parallel laser material processing
- ▲ Parallel laser scanning
- ▲ Laser perforation
- ▲ Optical measurement

### RELATED PRODUCT

- ▲ Rotation mount HSF03 for rotation /alignment of the spot array



4x4 beam splitters diffract the input beam into 16 beams. Each beam has > 4.6 % of total input power. The uniformity error  $(I_{max} - I_{min}) / (I_{max} + I_{min})$  is < 2.5 %. Besides, the power in the highest unwanted diffraction order is < 0.3 % (of input power).

### SPECIFICATIONS

Efficiency	> 74 %
Uniformity error	< 2.5 %
Light in 0th order beam	< 1 %
Strongest unwanted beam	< 0.3 %
Dimensions <sup>1)</sup>	dia. 25.4 mm / thickness 3 mm
Active area <sup>1)</sup>	dia. 23 mm
Material <sup>1)</sup>	fused silica
Damage threshold	10 J/cm <sup>2</sup> @ 1064 nm, 10 ns 5 J/cm <sup>2</sup> @ 532 nm, 10 ns 3 J/cm <sup>2</sup> @ 355 nm, 10 ns

Incl. AR/AR coating

<sup>1)</sup> Others on request

### AVAILABLE SEPARATION ANGLE $\alpha$

1064 nm	1030 nm	532 nm	515 nm	355 nm	343 nm
2.903 °	2.811 °	1.452 °	1.405 °	0.969 °	0.936 °

Model No.: DBS-4x4-wavelength-separation angle

Other angles or wavelengths on request.

