

[Tous les Produits](#) / [Composants Optiques](#) / [Éléments Optiques Diffractifs \(DOE\)](#)

## Convertisseurs de Faisceau Diffractifs HOLO/OR



- Convertissent les faisceaux gaussiens en profil à intensité uniforme
- Forme de sortie carrée avec une intensité uniforme
- Conceptions pour les lasers Nd:YAG de 532 nm
- Compatibles avec les faisceaux mono-modes

### Spécifications

#### Propriétés physiques et mécaniques

Épaisseur (mm): 3.00 ±0.1

#### Propriétés optiques

Longueur d'Onde de  
Conception DWL (nm): 532

Substrat: [Fused Silica](#) (Corning 7980)

Traitement: Laser V-Coat (532nm)

Forme de Sortie: Square

Damage Threshold,  
Reference: [See Link for More Details](#)

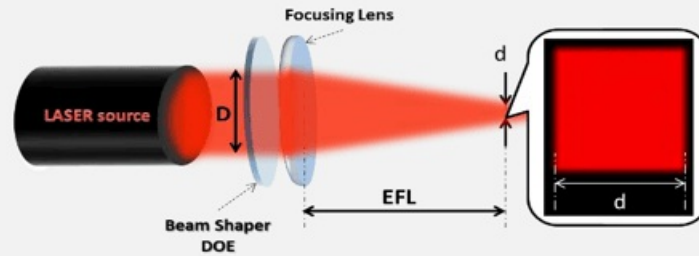
# Informations techniques

## OPERATION PRINCIPLE

© Holo/Or Ltd

A Top Hat (TH) Beam Shaper is an optical element, mainly based on diffractive technology (Diffractive Optical Element - DOE), and used to transform a Gaussian (TEM00) incident laser beam into a uniform-intensity spot of either round, rectangular, square, line or other custom well defined shapes. The most canonic set-up in the Beam Shaper application consists of a laser, a Beam Shaper element, a focusing optics and a surface to be treated. A typical Set Up with Top Hat beam is shown in fig.1 below.

Figure 1: Typical Set Up



Each beam shaper is designed for use with a specific set of optical system parameters:

- Wavelength
- Input Beam Size ( $D$ )
- Output Spot Size ( $d$ )

Note: using values of these parameters that are outside of the recommended narrow tolerances will degrade the performance of the Top Hat Beam Shaper element, and possibly render it useless for the application.

## Produits

Titre	Numéro de Stock	Prix	Achat
Convertisseur de Faisceau Diffractif, 532 nm, 25,4 mm de dia	<a href="#">#14-680</a>	€4.866,75	3 In Stock
Convertisseur de Faisceau Diffractif Stable, 532 nm, 20 mm de dia	<a href="#">#14-679</a>	€2.564,70	2 In Stock



Copyright 2023 | Edmund Optics, Ltd Unit 1, Opus Avenue, Nether Poppleton, York, YO26 6BL, UK

Téléphone: 1-800-363-1992 :

[www.edmundoptics.com](http://www.edmundoptics.com)