

A VISION OF EXCELLENCE



Holo/Or is the world leader for Diffractive Optics

1989 2020 1994 2013 2017 2019 Steady growth in laser • Continuous growth New POG Strategic partnership • Holo/Or First commercial with **TechInvest** leads to re-organization established use of CO₂ usage begins showing product line and enables wafer level affect on Holo/Or's **Holding Ag** (Scanlab) diffraction limited DOEs demand production DOE

- First to deliver DOEs for commercial use
- Break through technology
- Vast experience & expertise
- Diverse and extensive collection of beam shaping solutions

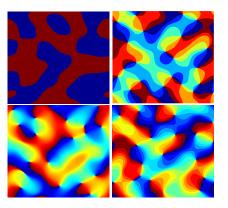






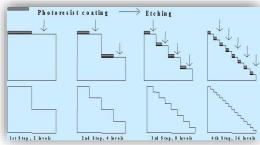
Holo/Or develops, designs and manufactures DOEs

- DOEs are thin diffractive windows that shape light
- Any desired intensity profile or shape
- In many applications DOEs significantly improve system performance
- DOEs advantages:
 - High (absolute) angle precision
 - High LDT
 - Thin & compact
 - Flexible shaping in single surface









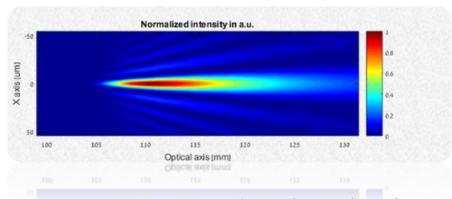




The power of Diffractive Optics

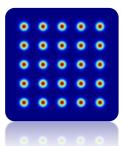
Main DOE families:

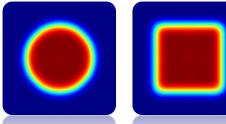
- **Beam Splitters**
- **Beam Shapers**
- Beam Foci (Focal shapers)

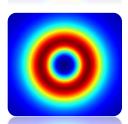


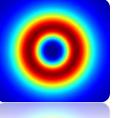








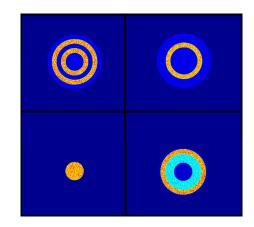


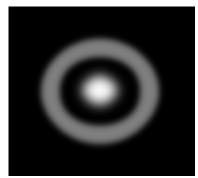


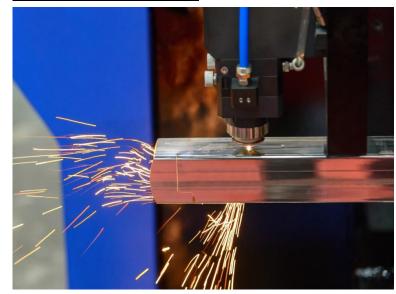


Adjustable shaping for Cutting & Welding

- Welding with a ring shape has been shown to have process advantages in speed & weld quality
- Some solutions use special sources with different fiber coupling
- Requires specific laser, high cost
- Fast switching not usually needed in real time process





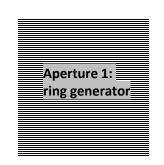




Adjustable shaping for cutting & Welding

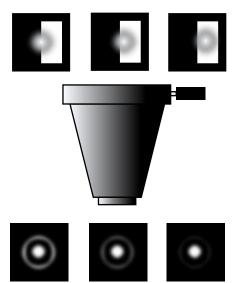
- Ratio of central spot and ring controlled by single axis shift
- Other concepts based on rotation also available





Aperture 2: smooth glass







Thank you!

Feel Free To Ask Questions

For more detailed follow-up, contact us at : holoor@holoor.co.il



