

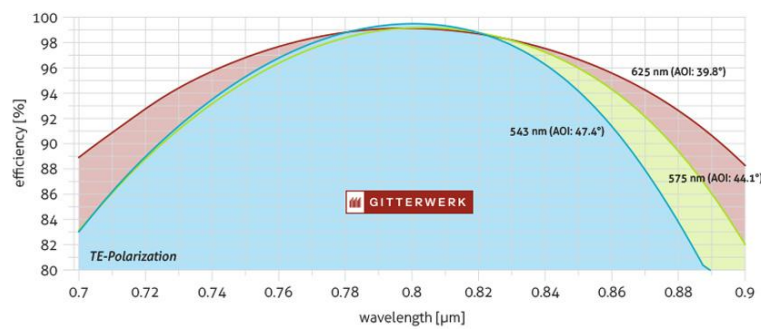
800 nm transmission grating

best gratings for high power and ultra short pulse lasers

The new standard for 800 nm: Transmission gratings

The powerful and high quality diffraction gratings for 800 nm wavelength are the best choice for Ti:Sa ultra short pulse lasers (USP-Lasers).

Until now, metal coated and reflection gratings are the best-known components for this wavelength range. However, with the new transmission gratings from Gitterwerk you will get the highest efficiency over a broad range of wavelengths and unparalleled power handling capabilities.



“Efficiencies up to 99.5% – incl. AR-Coating!”

5% higher Grating Efficiency = 20% more Laser Efficiency – Due to 4-passes of the compressor gratings.

“Perfect Transmission Gratings for ultrashort pulse laser!”

Advantages of transmission gratings for 800 nm:

- very high diffraction efficiency
- simple handling and easy adjustment
- perfect for high power and ultra short pulse lasers (< 10 fs)
- no degradation (in contrast to metal gratings)

Industrial Applications:

- Spectroscopy
- Semiconductor Industry
- Material processing
- Life Science / Medical Technology

Product Details:

- VERY GOOD HOMOGENEITY, up to 135 mm diameter
- TYP.3 OR 6.35 MM SUBSTRATES,high mechanical stability
- ALL-DIELECTRIC and ultra-pure fused silica
- NO STITCHING/PERIOD VARIATIONS,low wavefront distortions
- OPTIMAL EFFICIENCIES-due to individual Design