

ADVANTAGES AT A GLANCE



LOW ROUGHNESS AND HIGH REFLECTION VALUES

- Roughness less than 1nm possible



SHORTER PROCESSING TIMES UNTIL FINAL ROUGHNESS IS ACHIEVED

- Savings in pre-processing
- Excellent machinability of Superflat Si



FREE CHOICE OF MIRROR MATERIAL

- final machining of Superflat Si and not the mirror material



SIMPLE SHAPE CORRECTION PROCESSING WITHIN THE COATING

- Spherical, aspherical, free-form



WIDE WAVELENGTH RANGE

- From EUV to IR



HOMOGENEOUS CHARACTERISTICS

- Machinable from the first nm

COATING OFFER

Technology independent



Development partner for your high-performance coatings



Advanced concepts for automation and industrialization of the coating process



Full customer service including packaging, logistics and transport



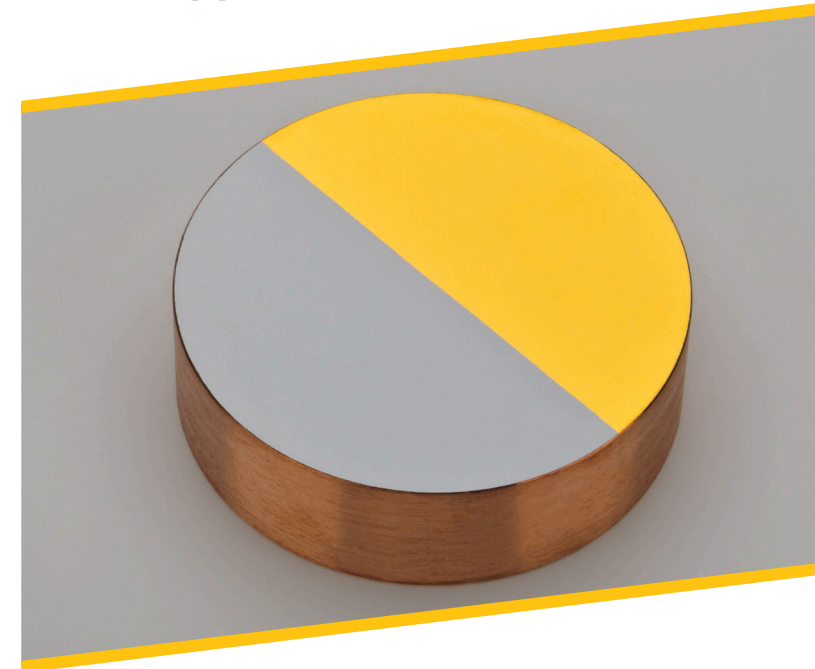
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SUPERFLAT Si surface for mirrors

- Low roughness
- Material independent
- Easy polishable



TECHNOLOGIES FOR A CLEANER PLANET

APPLICATIONS



**SATELLITE
COMMUNICATION**

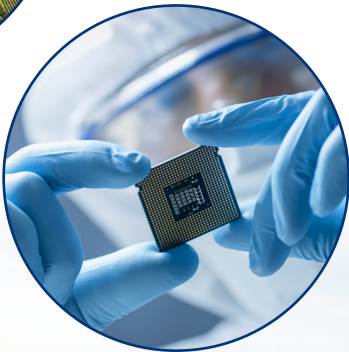
**GALVO SCANNER FOR
INDUSTRIAL LASERS**



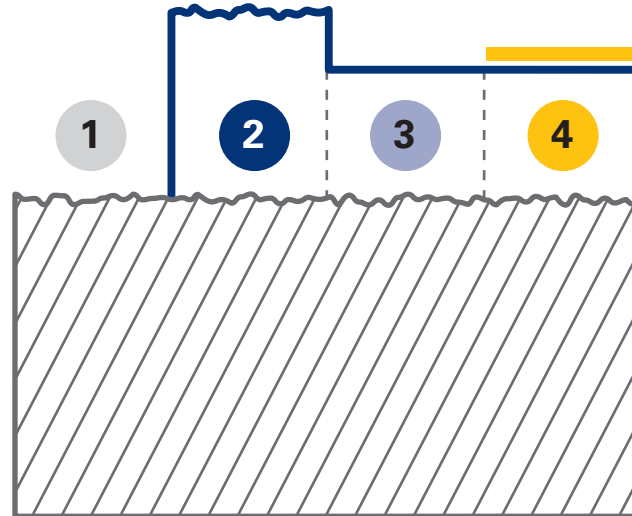
**HIGH RESOLUTION
IMAGERY**



EUV REFLECTION



- 1 pre machined mirror
- 2 Superflat Si 
- 3 Polishing step
- 4 Finished mirror with reflective coating



FREE CHOICE OF MIRROR MATERIAL

- Metals
- Ceramics
- Alloys



PROCESS AND POSSIBILITIES

- Amorphous Silicon PVD Coating
- Single piece and large-scale production
- Component size up to 1300mm feasible
- Layer thicknesses from 1µm to 100µm possible

MECHANICAL POST-PROCESSING

Superflat Si enables versatile mechanical post-processing

UP DIAMOND MACHINING

POLISHING METHODS

ION BEAM MILLING