

## 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



### High Tech Coatings GmbH

Dr.-Mitterbauer-Str. 3  
4655 Vorchdorf, Austria  
T +43/76 14/65 41-0  
htc-support@miba.com

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

Innovation in Motion

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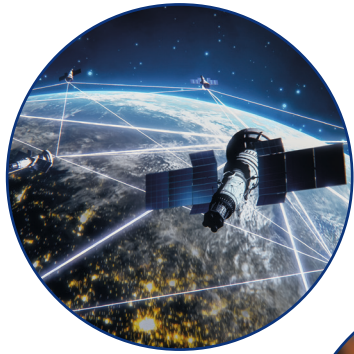
## SUPERFLAT Si surface for mirrors

- Low roughness
- Material independent
- Easy polishable



## TECHNOLOGIES FOR A CLEANER PLANET

# APPLICATIONS



**SATELLITE  
COMMUNICATION**

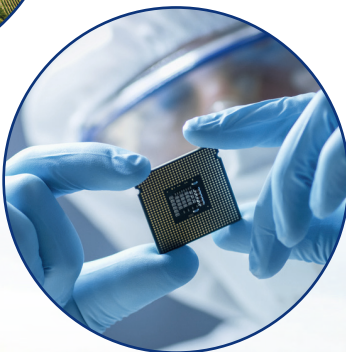
**GALVO SCANNER FOR  
INDUSTRIAL LASERS**



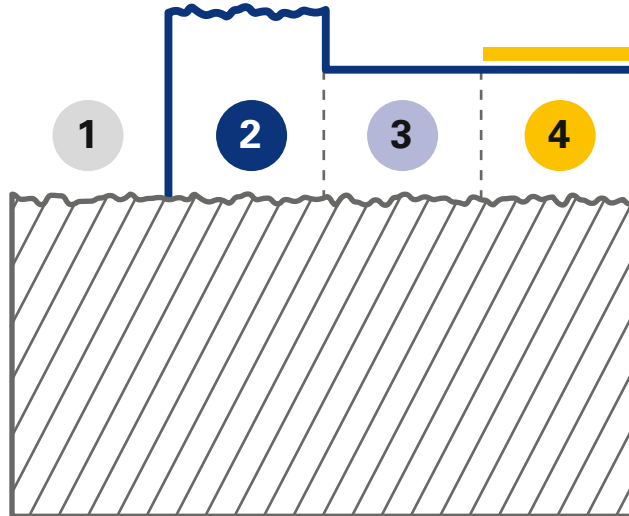
**HIGH RESOLUTION  
IMAGERY**



**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