

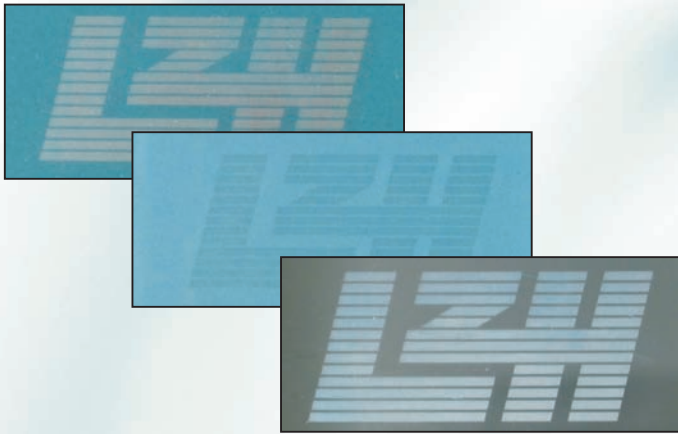
Thin Layer Removal

Process characteristics

- selective removal of metallic layers from glass
- applicable to almost every layer material

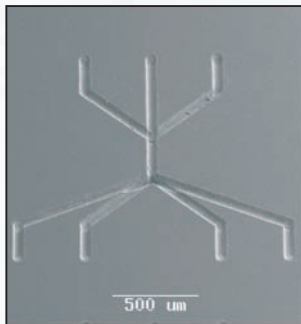
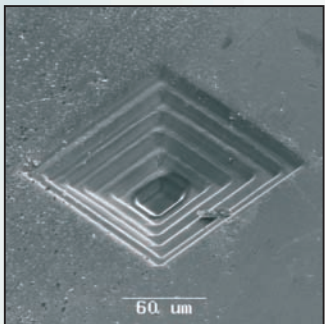
Applications

- (low-e) glass
- structuring of TCO's for thin-film solar cells



Micro Processing

- drilling of flexible shapes
- texturing of channels
- surface modification
- micro cutting



Information and Consulting



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Your Contact

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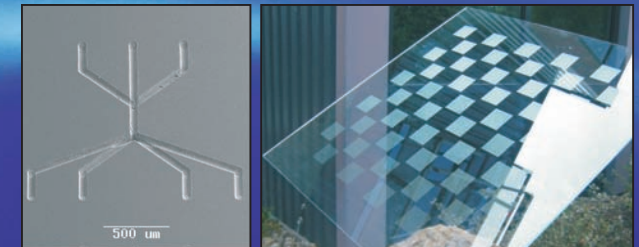
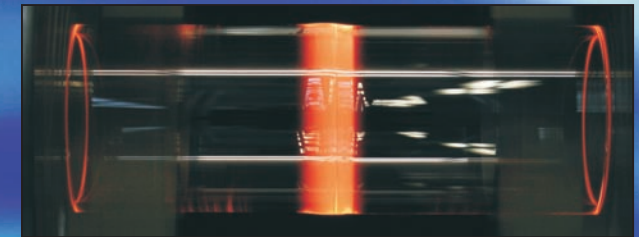
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 LASER ZENTRUM HANNOVER e.V.

When High-Tech meets Glass

**Research, Development &
Consulting for
Laser Processing of Glass**

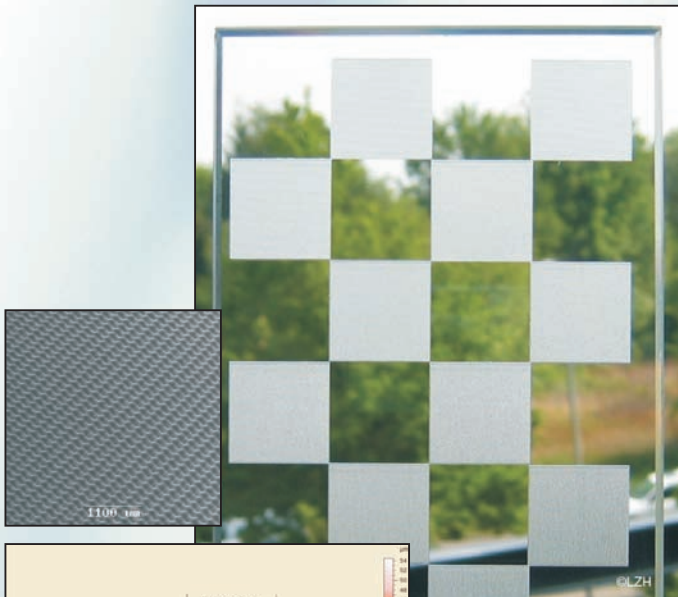


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Structuring of Flat Glass

Process characteristics

- applicable to all glass types
- structuring of TSG
- fast and flexible processing
- large-scale
- no process additions / masks / foils



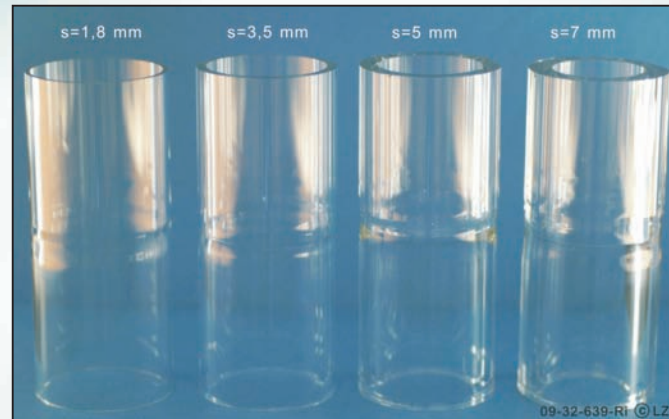
Applications

- architecture (interior & exterior)
- anti-slip properties
- light diffusers

Processing of Solar Receivers

Glass-glass fusing

- applicable to all glass types
- fully automated process
- double speed compared to the gas burner
- controllable stress distribution
- no chemical influence to the glass



Glass-metal fusing

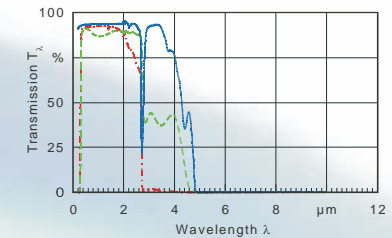
- double speed compared to the gas burner
- temperature controlled
- suitable for vacuum
- long term stability
- without
 - water condensation
 - soot
 - UV radiation



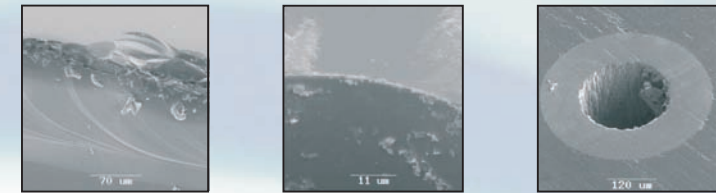
Control, Analysis and Characterization

Transmission and absorption measurement

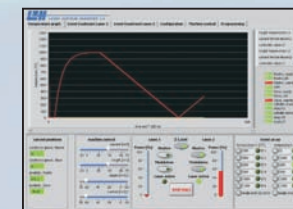
UV / VIS / NIR / IR



Micrographs (SEM)



Temperature Control for Glass Processing



- control loop
- flexible temperature profile
- process visualization
- data recording and export
- simple integration

Stress Measurement

- quantitative measurement of your products

