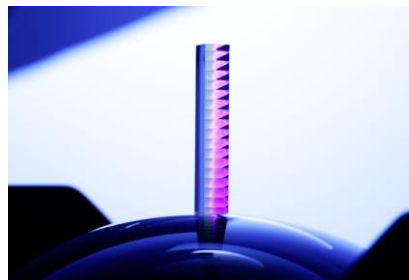




## TECHNOLOGY DESCRIPTION

Microlens arrays with superior form accuracy are used in applications where reliability and the highest efficiency are crucial criteria. They are employed for tasks such as collimation of fibre bundles, beam transformation for fibre coupling, and homogenisation of laser light. The lateral dimensions of the arrays range from a few millimetres at the micro-scale up to 45 millimetres at the macro-scale. The dimensions of the array structures are typically in the sub-millimetre range. A unique production technique allows for the maintenance of shape and pitch accuracy in the submicron range. Customised microlens arrays are available, from lens design, prototyping, and small batch production to mass production.



## INNOVATIVE ASPECTS

- monolithic array
- highest transmission due to minimised transition zones
- highest level of precision and uniformity
- reliable and stable quality
- manufacturing process highly economical at large quantities
- high flexibility with respect to geometry



## TECHNOLOGY READINESS (in space application)

TRL 9 (2024)

## COUNTRY OF ORIGIN

Germany

## LATEST UPDATE

06/2024

### TAGS

#microlens

#array

#monolithic

#minimised

#high quality

#macro-scale

### APPLICATION AREAS

Aviation

Energy

Electrical &  
Electronic  
Engineering

Chemical  
Engineering &  
Biotechnology

Health

Safety and  
security

Space  
technologies

SPACE  
FOR BUSINESS  
BUSINESS  
FOR SPACE

# TECH CARD

