

# microjet®

A SOLUTION TO EVERY APPLICATION



## YOUR BENEFITS

### Tools

Longer tool service life, reduced tool friction.

### Workplace and working environment

Cleaner workplace, dry workpieces.

### Machines

Shorter downtimes thanks to less maintenance and shorter set-up times.

### Production

Production rise through increased cutting parameters and tool service life. Improved manufacturing quality.

### Cleaning

Costs for cleaning workpieces, machines and their immediate environment can be considerably reduced.

### Safety

Reduced risk of accident thanks to clean, oil-free floors, no skin diseases caused by bacteria or fungus infections, none of the resulting staff failures.

### Economy of operation

Shortest pay-off time, often less than a year. Lubricant savings of up to 80%. Profitable recycling of raw materials.

## OUR ADDRESS



**microjet**  
GmbH  
Minimum-quantity lubrication systems

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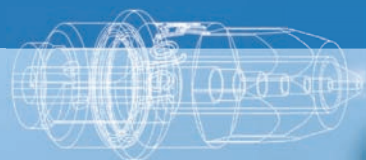


MINIMUM QUANTITY OF SPRAYING  
Nozzle technology

**microjet**  
GmbH  
Minimum-quantity lubrication systems

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## NOZZLE TECHNOLOGY



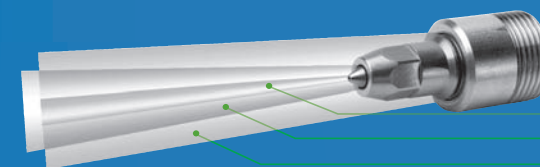
**microjet® Nozzle technology**  
The patented two-phase nozzle features an internal mixer chamber in which the liquid is atomized using compressed air. Simultaneously, the compressed air flows within an annular channel parallel to the mixing chamber and forms an air jacket/air bell when escaping out of the nozzle end.

That technology prevents the particles of liquid from undesirably dispersing in the surrounding air, and simultaneously imparts the mixture jet a stable direction. A fog cannot form.

### Technological lead through innovative nozzle engineering

- Most precise and directional stable mixture jet
- Mixture jet directed to the machining point within an air jacket
- No nebulizing of liquids
- Low noise level
- Minute compressed air consumption in comparison with conventional needle nozzles
- Application of reproducible quantities
- Reliable metering of both low- and high-viscosity liquids

Thanks to our nozzle technology (nozzles from Ø 4 mm) we are in a position to offer a solution to any application.



Air/Liquid mixture  
Air Jacket  
Air Belt

## PRODUCT LINE



Two-phase nozzle Ø 7 mm.  
Properties: Small sizes for applications within reduced mounting space.



Two-phase nozzle Ø 8 mm.  
Properties: Standard nozzle, dense spray jet.



Two-phase nozzle Ø 8 mm with air jacket generator.  
Properties: Additional air bell, accurate narrow spray jet.



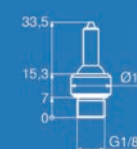
Two-phase nozzle Ø 8 mm with wide jet attachment.  
Properties: Wide spray jet, spraying width up to 50 mm, also suitable for high-viscosity liquids (up to 400 mm<sup>2</sup>/s)



Articulated nozzle Ø 4.4 mm.  
Properties: tiltable by 30°, rotatable by 360°, narrow spray jet.  
For short distances and low-viscosity liquids.



Articulated nozzle, short.  
Properties: Small size, tiltable by 60°, rotatable by 360°.



Articulated nozzle, long.  
Properties: Standard nozzle, tiltable by 60°, rotatable by 360°. Dense spray jet up to 200 mm.



Atomizing head for lubrication through the tool spindle.