The solution for high-cavitation moulds.

Micro-manifold technology
The use of EWIKON micro-manifold technology allows the process-reliable processing of polyolefines in compact and very stable high-cavitation moulds. Target sectors are the packaging and medical industry where an efficient large-scale production of parts with small shot weights is required.

For polyolefines and small shot weights.

The solution for high-cavitation moulds
Standardised design

High-cavitations mould designs are based on standardised 16-drop clusters with 4 micro-manifolds each.

Complete hot halves are available in the following versions:

- 16-drop
- 32-drop
- 64-drop
- 96-drop
- 128-drop
- 192-drop

Product features + Benefits

- Micro-manifolds with four screwed-in heat conductive tip inserts each and very homogeneous temperature profile for the process-reliable processing of polyolefins
- Easy design of moulds with up to 192 cavities based on standardised 16-drop clusters combined with a bridge manifold
- Fully balanced flow channel layout with short flow path lengths, reduced pressure loss and minimised residence times
- Only one control zone required per micro-manifold. Considerably reduced control expenditure
- 30 mm distance between cavities within a micro-manifold
- High maintainability. Easy exchange of tip inserts after removal of the mould inserts
- Reduced space requirement for electric wiring allows very compact moulds with maximum stability
- Cooling supply integrated into the hot half with transition to the mould inserts
Compact and stable mould design

With only one control zone per micro-manifold the amount of cables and thus the space in the manifold frame plate which is required for wiring of the system is considerably reduced. Furthermore, no flexible cables are installed in hot areas. A part of the saved space can be used to integrate additional support sleeves or domes into the plate. Therefore, mould designs with micro-manifold technology are not only particularly compact but also very stable.
**Integrated cooling supply**

The cooling supply with transition to the mould inserts is directly integrated into the hot half. This facilitates the layout of the cavity cooling.

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**Easy maintenance**

The screwed-in tip inserts can be exchanged easily after removing the mould inserts without having to dismantle the mould from the machine.
Micro-manifold system
Dimensions for hot half

View on tip inserts
Micro-manifold system
Assembly note for mould insert
and cooling supply

View on tip inserts

16-drop
Micro-manifold system
Dimensions for hot half

View on tip inserts

Technical data

32-drop
Micro-manifold system
Dimensions for hot half

64-drop

View on tip inserts
Micro-manifold system
Dimensions for hot half

View on tip inserts
Micro-manifold system
Assembly note for mould insert and cooling supply

View on tip inserts
Micro-manifold system
Dimensions for hot half

View on tip inserts

128-drop
Micro-manifold system

Dimensions for hot half

View on tip inserts
Micro-manifold system
Assembly note for mould insert
and cooling supply

View on tip inserts

Technical data

128-/192-drop
Micro-manifold system
Assembly note for tip inserts