

Emhart Glass SA, Cham, CH

# InVertiFlow Improves Blank Mould Cooling

*Emhart Glass has recently released InVertiFlow, a new blank mould cooling system that is part of the service-proven VertiFlow technology introduced by the Company in 1988. This new cooling technology is now available for 5½" double gob IS machine configurations. Other configurations are under development.*

InVertiFlow cooling offers several unique advantages over other types of cooling.

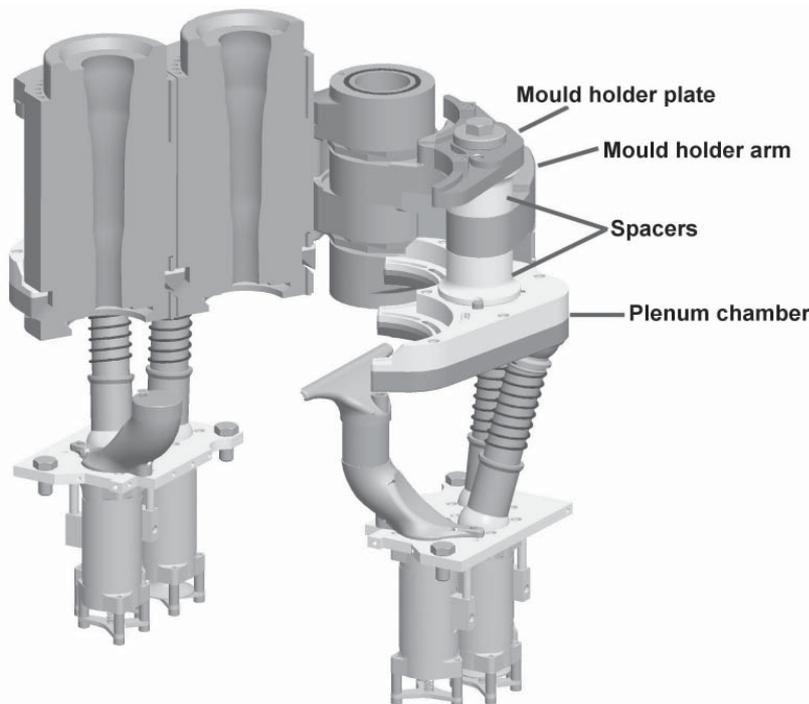
- Higher cooling efficiency leads to potential production speed increase
- Individual cooling of mould halves helps to optimise cooling conditions.
- There is no heat load to section and fumes are carried away, resulting in improved working environment

- Easier mould change by the absence of the plenum chamber on top, which reduces downtime.
- Existing VertiFlow blank moulds can be easily converted to InVertiFlow, allowing either VertiFlow or InVertiFlow cooling to be used.

Like VertiFlow, InVertiFlow conducts cooling air through a pattern of vertical holds bored into each mould half. VertiFlow uses plenum chambers on top of the blank moulds, passing

cooling air through the vertical holes to the bottom of the blank moulds. With InVertiFlow, the airflow has been inverted, passing the air from plenum chambers at the bottom – or lower end – to the top of the blank moulds.

The InVertiFlow cooling system is designed to accept existing blank moulds used with the VertiFlow cooling system. Blank moulds used with conventional stack cooling also may be used, as long as the cooling holes will not interfere with the cooling fins. The system consists of a universal mould holder arm, upper mould holder plates, plenum chambers, on/off controls, and neck ring cooling. Installation of InVertiFlow cooling into existing section frames requires only minor modification. Emhart Glass IS section frames delivered after January 2004 already have these modifications.



Picture: InVertiFlow components.

Photo: Emhart Glass

## About Emhart Glass

Emhart Glass, a division of Bucher Industries AG, is headquartered in Cham, Switzerland, with offices and manufacturing facilities located throughout the world. The company is a leading supplier of machines, controls, and parts to the glass container industry.

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