

Microgel Syncro

Synchronised Microgel

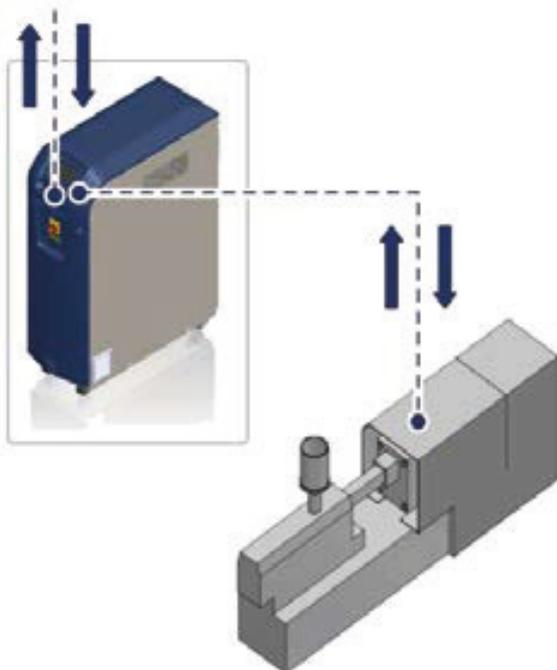
Microgel Syncro is new Frigel technology that revolutionises the temperature control method of injection moulding technical parts.

The Microgel™ Syncro technology allows for a significant reduction in cycle time (up to 40%), guaranteeing very high product quality.

Digitally synchronised with the mould, Microgel Syncro provides cold water only during the cooling phase, reducing drastically the cooling time, while keeping the mould cavities hot during the injection phase.

Advantages

- ▶ Increased production up to 60% thanks to the drastic reduction of cooling time
- ▶ Better product quality in terms of dimensional tolerances, structural characteristics, and aesthetic finish thanks to a better filling of the mould
- ▶ Affordable investment & excellent ROI
- ▶ Easy to configure and use thanks to simple work recipes stored for each mould
- ▶ It does not require modifications to the mould
- ▶ Intelligent use of energy consumption thanks to reduced injection pressure, lower consumption of hot runners and lower closing force.
- ▶ Proven performances thanks to weekly performance report



The NEW CONCEPT of thermoregulation synchronised with the PROCESS

Innovative Functional Features:

- ▶ Digital synchronisation with the mould cycle to find the best part quality and cycle time
- ▶ Microswitch for quick and easy synchronisation with the mould
- ▶ Possibility to memorise and store the parameters for each mould (Recipes)
- ▶ Real-time analysis (kWh/kg)
- ▶ Integrated remote connectivity
- ▶ Online wizard recipe finding for the moulds
- ▶ Weekly performance report focused on productivity and uptime



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A new modern cooling concept

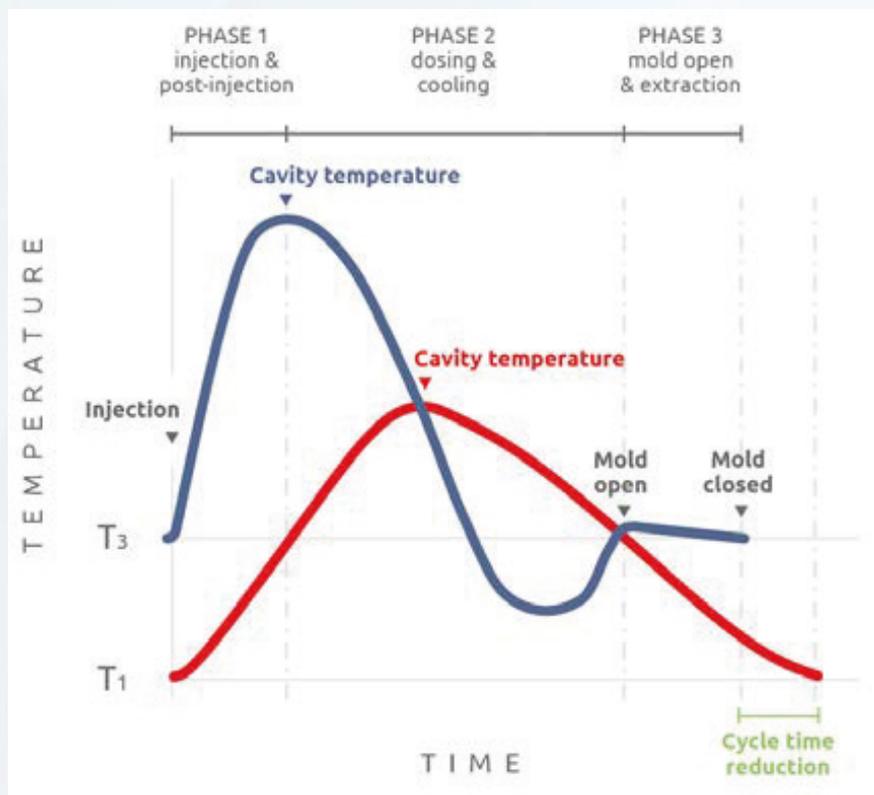
Synchronising the cooling with the injection phase it is possible to:

- ▶ Reduce the cycle time
- ▶ Increase the production rate
- ▶ Optimise the product quality
- ▶ Reduce the operating costs (less scraps and energy saving)
- ▶ Create a full integration between Injection Moulding Machine and Microgel Syncro thanks to signals exchange
- ▶ Have perfect reparability and high productivity
- ▶ Find and memorise the best cooling conditions

Cycle time reduction

During the cooling phase, the plastic develops a crystalline structure and becomes solid with the required dimensions, strength, and aesthetic qualities.

By synchronising the cooling water flow with the moulding cycle, Microgel Syncro drastically reduces the cooling time which, in turn, leads to a significant reduction of total cycle time.



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