

MasterCooler SMART®

The air mist nozzle for every slab caster

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These air mist nozzles are now equipped with a plate bolted vertically onto adaptor plates. Small diameter fluid feed pipes are no longer necessary. All nozzles are mounted outside of the framework at the rear side of the segment. Only the nozzle pipe, which carries the spray tip reaches down to the spray position. A very rigid header pipe and a self-aligning nozzle are the result.

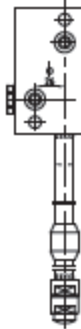
The nozzle spray position is always secured. A "hoseless" fluid supply system also becomes possible.

The mixture between compressed air and water takes place away from the hot zone inside the mixing chamber, which is an internal part of the vertical plate. Hence, only one single nozzle pipe, exempt of any restrictions, supplies the premixed fluids to the nozzle tip.

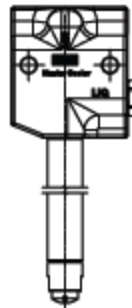
Nozzle staggering between the roller gaps within one segment becomes much easier since different nozzle positions can be served from only one header pipe manifold. Nozzle staggering is one method of equalizing the water distribution along the strand's length dimension with the intention of eliminating surface defects and cracks.

Nozzle parameters such as water and air flows, spray angle, extension pipe length, and connection plate details are customized to the requirements of each individual project.

For Danieli Slab Casters



For SMS-Demag Slab Casters



For Siemens-VAI Slab Casters

