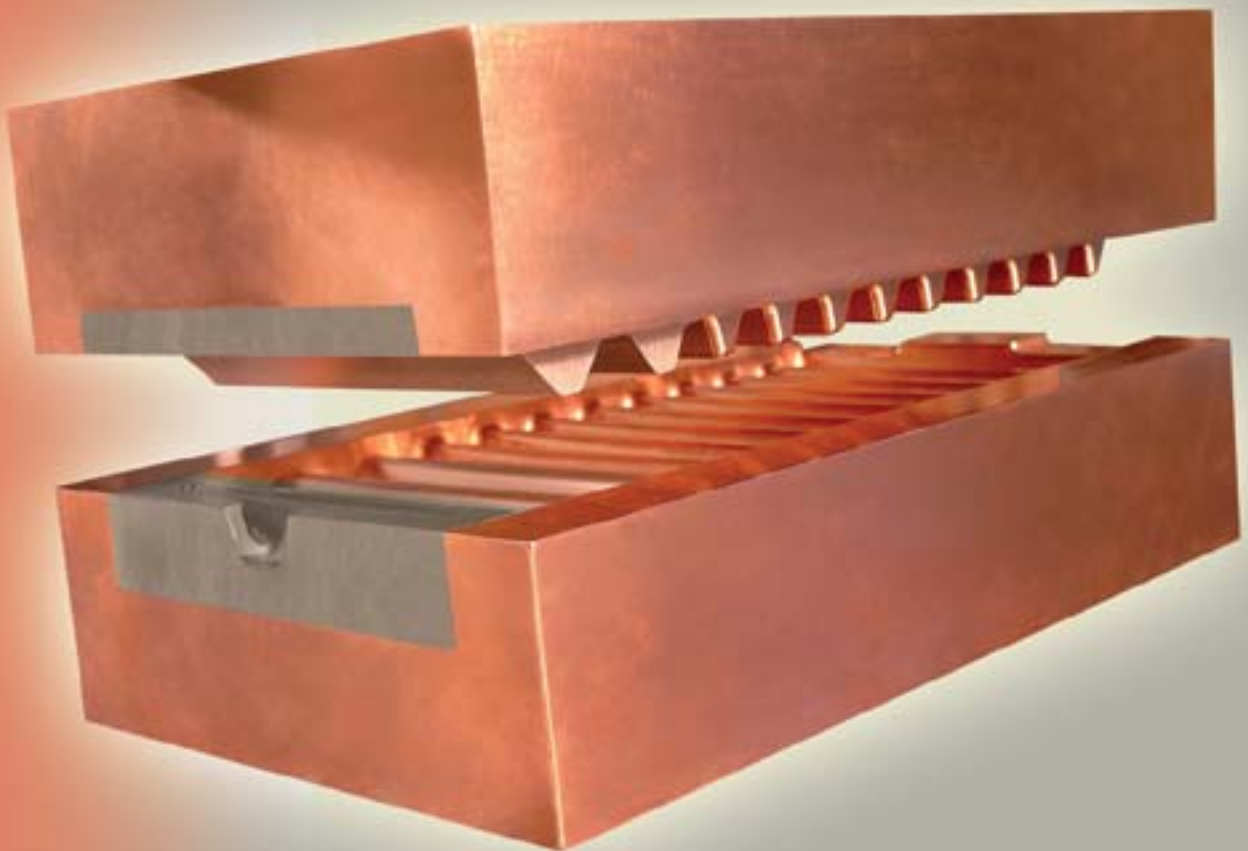


# *OptiVent*

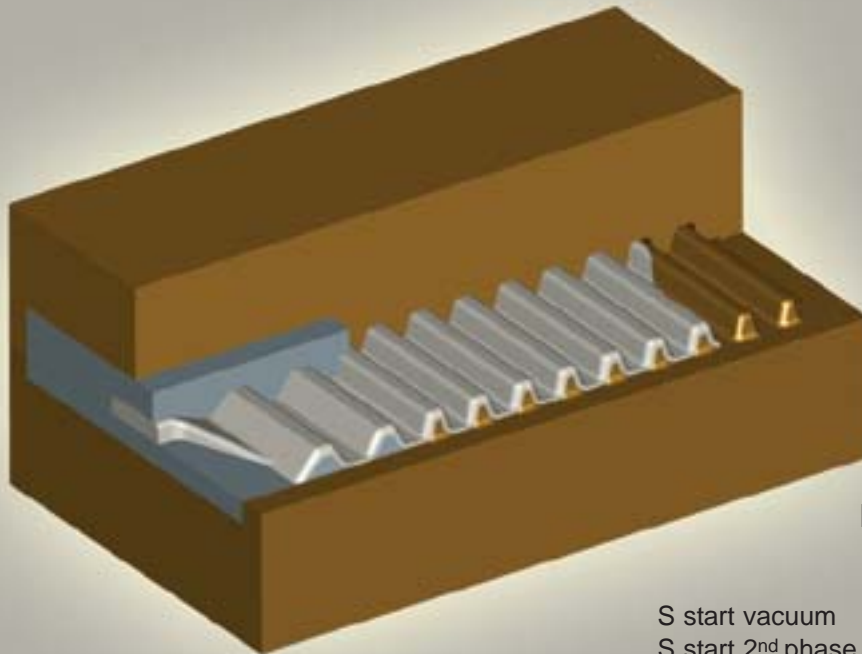


*THE* solution  
for die venting!

# OptiVent

## Venting - Block OptiVent

A newly developed design with increased cooling surface combined with a material having high thermal conductivity and a wear and temperature resistant insert that allows a larger venting profile and at the same time a guaranteed solidification of the aluminium or magnesium. The venting clearance is up to 1,5 mm. OptiVent does not require cooling or ejector pins.



### Necessary venting area Vacuum

S start vacuum	$S_{SV}$	mm	170
S start 2 <sup>nd</sup> phase	$S_{S2.Ph}$	mm	465
Velocity 1 <sup>st</sup> phase	$V_{1.Ph}$	m/s	0,15
Biscuit thickness	$d_{PR}$	mm	60
Piston diametre	$K_D$	mm	130
<b>Venting Area</b>	<b><math>F_E</math></b>	<b>mm<sup>2</sup></b>	<b>154,50</b>

- High venting or suction efficiency
- Minimum maintenance required (no moving parts)

CAD design and CNC machining allow individual adjustments to existing die designs and short lead times.

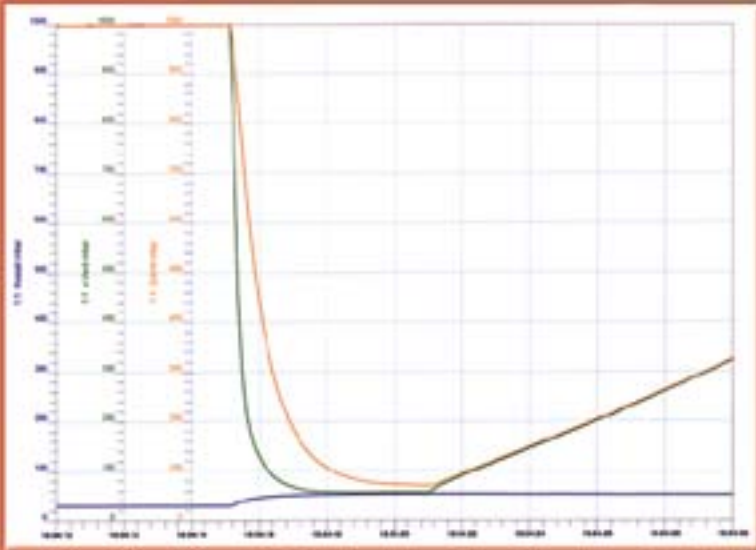
*THE solution  
for die venting!*

# OptiVent

## Benefits resulting from using OptiVent

### Increased quality of the die castings

- Reduced gas porosity
- Improved mechanical properties
- Die castings can be heat treated
- Die castings are weldable
- Less scrap



Pressure progression in the die

Vacuum test stand  
Volume up to 20.000 ccm

### Increased process reliability and productivity

- Reduced injection pressure
- Less machine load
- Reduced die wear
- Minimized flash on the parting area

### Significant cost reduction



*THE solution  
for die venting!*


# OptiVent

## **Additional services**

Computer assisted calculation of the venting system for the die.

Mounting of OptiVent and necessary modification of the venting system in our tool shop or directly in the customer's workshop by our qualified personnel.

For further information:

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