

# DURACOOOL REVOLUTION IN CONFORMAL COOLING



**SCHAUFLE  
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GROUP**

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## DuraCool

### Goal:

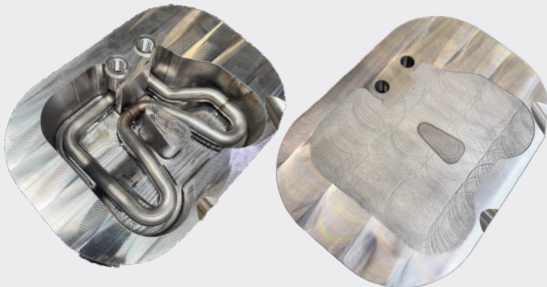
Providing the fastest cooling to achieve shorter cycle time and eliminate cracks into cooling lines

### Solution:

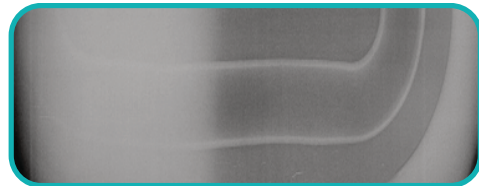
Build a shell with cooling pipes – printed or made of stainless steel – and fill it with a material that has four times higher thermal conductivity than hot working steel!

### Benefits:

- significantly reduced cost compared to 3D printed inserts
- 100 % leak-free – no more cracks into cooling lines
- reduced cycle time and improved casting quality
- faster heat removal from hot spots
- less machine downtime due to extended lifetime



back side of shot block



no porosity



zero leakage



perfect bonding