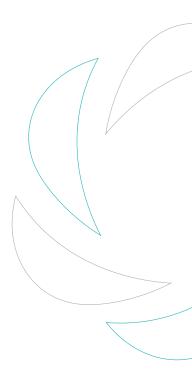
DURACOOL REVOLUTION IN CONFORMAL COOLING





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





no porosity



zero leakage and less corrosion



perfect bonding even on sharpe edges
- the image shows an example;
in the practical process, we design
maximum radii in critical areas
and on contour sides