Patina

Homogeneous Cooling for Optimal Strand Quality

PATENTED

MELTING & CASTING TECHNOLOGIES

YOUR CHALLENGE

Consistent Quality at the Billet Corners

In continuous casting, uniform cooling is crucial for product quality. In particular, the corners of the billet are prone to depressions and cracks due to more intensive heat dissipation – a well-known issue that affects both the quality and cost-efficiency of production.

Corner cracks in the billet caused by uneven cooling

OUR SOLUTION

Homogeneous Cooling Through Targeted Insulation

cunova's new and patented Patina mould tube offers a smart solution: a strategically applied thermal insulation layer on the outer corners of the mould tube locally reduces heat flow, resulting in a more balanced cooling distribution – without any modification to the cooling system.

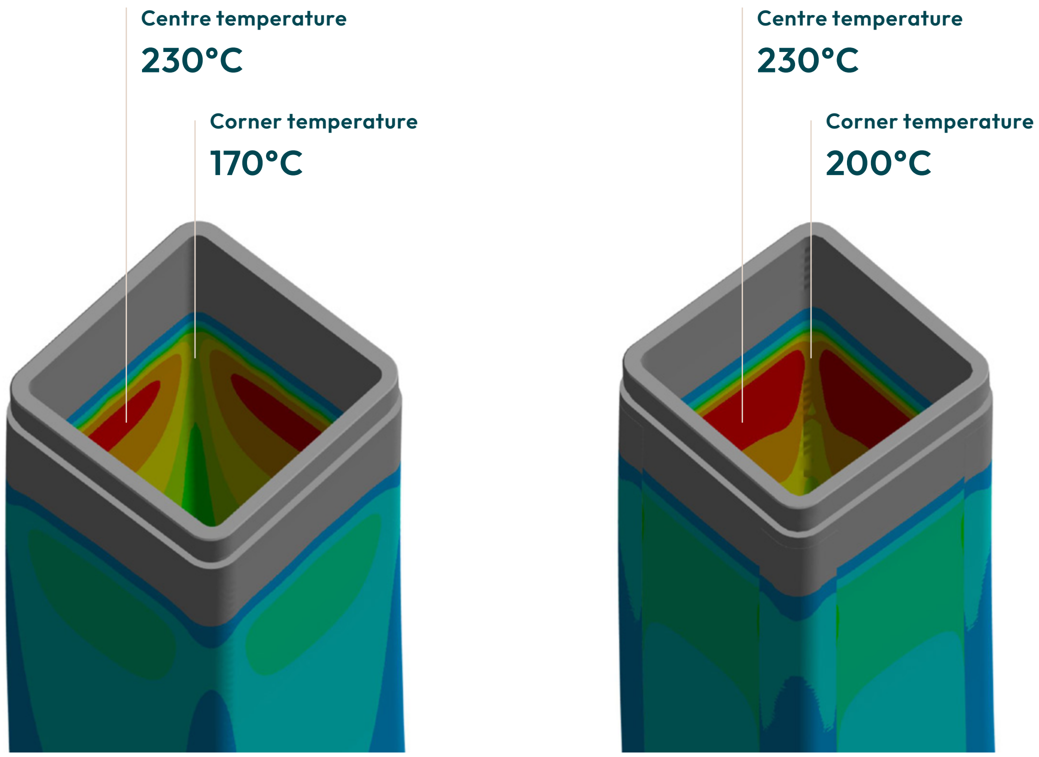
The result: greater process stability and less scrap.

YOUR BENEFITS

Smart Design for Enhanced Process Reliability

The Patina coating has a thermal conductivity more than 200 times lower than that of pure copper. Applied to the outer corners of the mould tube, it acts as a thermal barrier and precisely reduces heat dissipation.Depressions and corner cracks are significantly reduced, the billet shape remains stable – and casting quality improves.

Your key advantage: Cooling system, process parameters, and plant components remain unchanged – implementation is efficient and straightforward.



Mould tube without Patina

Mould tube with Patina

Want To Learn More About Our New Mould Tube?

Our Experts Are Happy To Advise You:

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