mouldView

Problem:

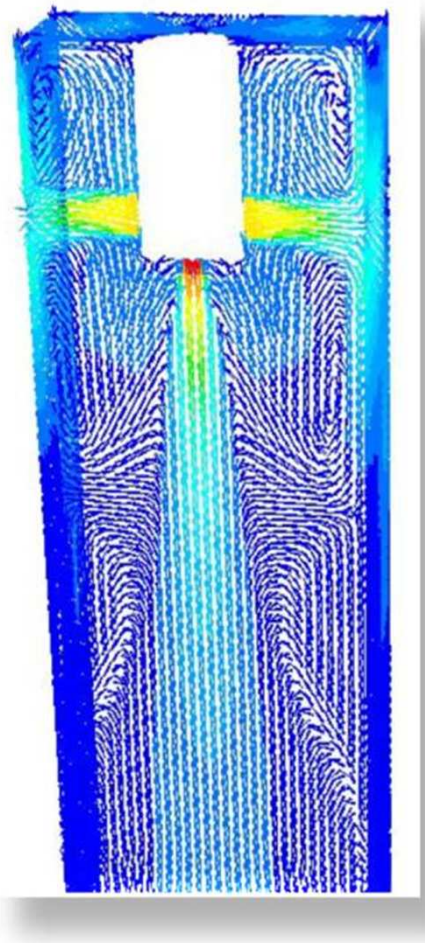
The mould is the heart of the continuous casting process.
If thermal and fluid dynamics phenomena occurring in the mould are not properly addressed, casts can be affected with cracks, slag entrapments and other minor defects.

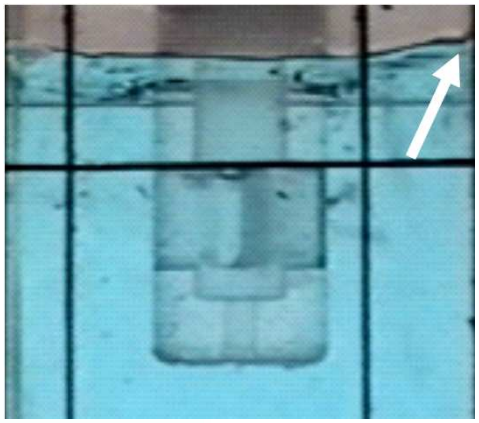
Solution:

mouldView is a service CSM offer to its Customer in order to define the most suitable SEN geometry design, its immersion depth, the working conditions of stirrer.

mouldView is based on a 3D Finite Element mathematical code applied to actual mould and SEN design, in order to visualise transient conditions.

A 1:1 water physical model is built to have a visual representation of steel flows in steady conditions.
Mathematical and physical models help to define the complete geometry of SEN and also immersion depth.





Benefits:

- Optimisation of SEN design
- Minimisation of slag entrapment in transient conditions
- Improving of steel thermal homogenisation

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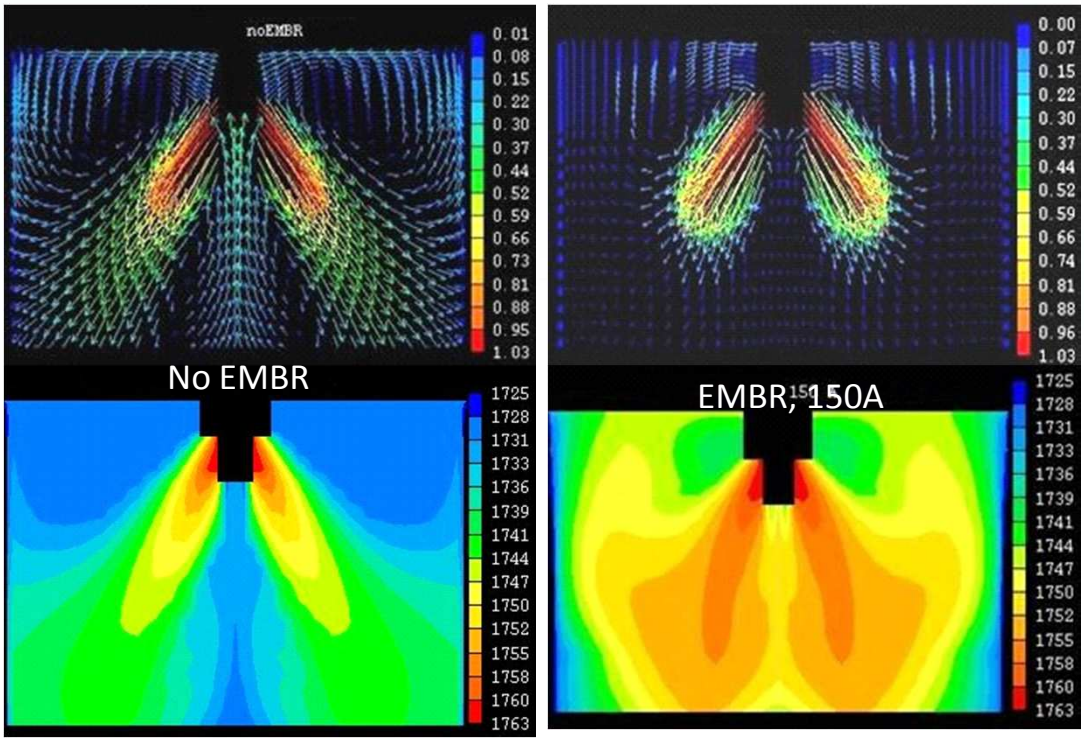
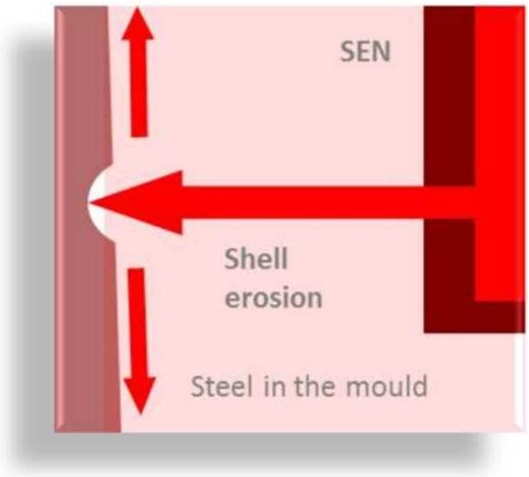
Data request:

Present mould and SEN design, operative practices, casting powder datasheets.





mouldView, when applied systematically with the other products of castSuite (tundishView, powderView, taperView, coolingView) can allow to define the optimal operative practices of continuous casting of any kind of steel grade.

contact:
Centro Sviluppo Materiali SpA
www.c-s-m.it
marketing.steel@c-s-m.it