

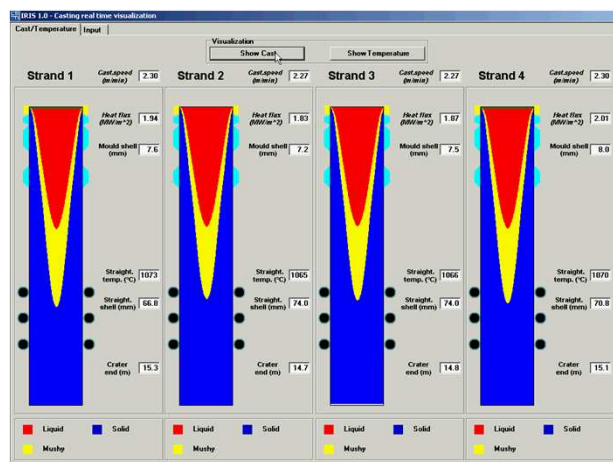


castView

Problem:

Solidification is a complex phenomenon.

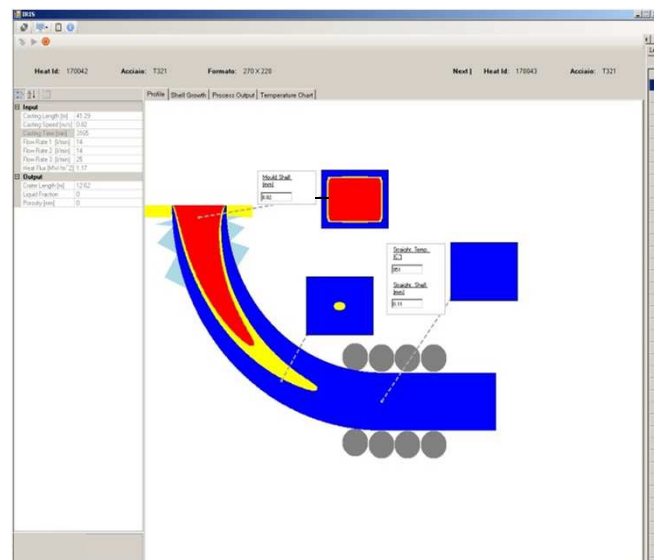
When process and plant design are not fully correct, slabs, blooms and billets could present different kind of defect.



Solution:

castView is a fully 3D thermo mechanical tool able to calculate and on-line visualize the extent and evolution of the different liquid, mushy and solid phases along the strand.

The correct evaluation of the position of the closure of liquid pool is the main output to address the position of secondary stirrer.



Benefits:

- Visualisation of the evolution of the solidification process.
- Optimisation of continuous casting process.
- On-line indication of casts (slabs, blooms, billets) with high probability of internal cracks and/or central porosity.

Industrial Arrangement:

castView is designed to exchange data with L1, L2 and L3 systems. Specification for hardware and data interfaces are supplied by CSM. After installation a tune up period is required.



castView data can be included in Q-pro² quality database, in order to allow historical analysis on the evolution of quality levels of final products.

Coupling castView for solidification with coolingView for secondary cooling allow the optimal management of the process for any steel grade.

