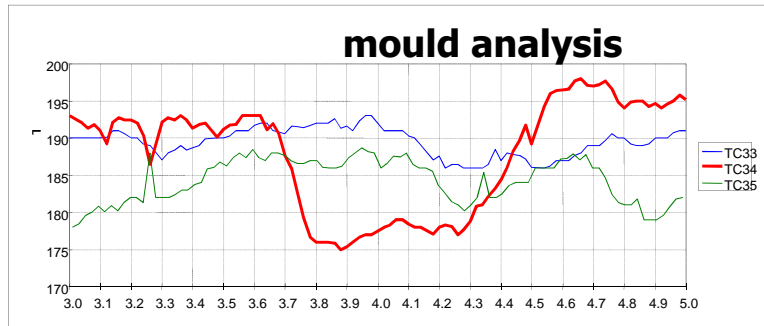




CaStMaster

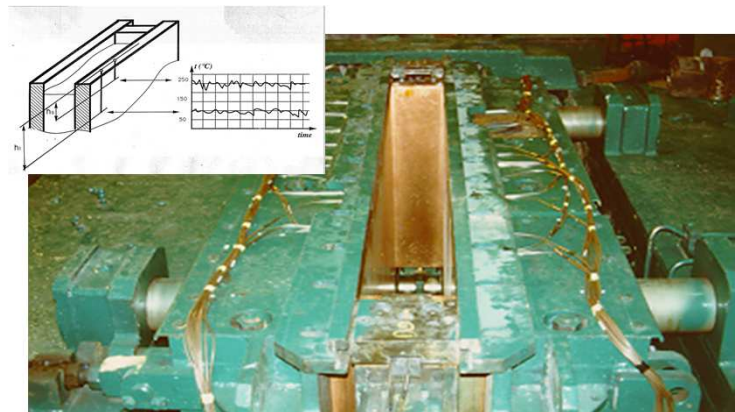
Problem:

During continuous casting, anomalous conditions can evolve, inducing surface defects on slabs, blooms and billets. Visual inspection followed by conditioning is then required.



Solution:

- CaStMaster is a software tool that embodies plant based knowledge about correlations between process variables, mould heat transfer and defect analysis of slab, bloom and billet surface.
- Global variables (i.e. speed) identify perimetral defects (i.e. deep OSM), while local variables (by in-mould thermocouples) help identifying local defects (i.e. longitudinal defects)



Benefits:

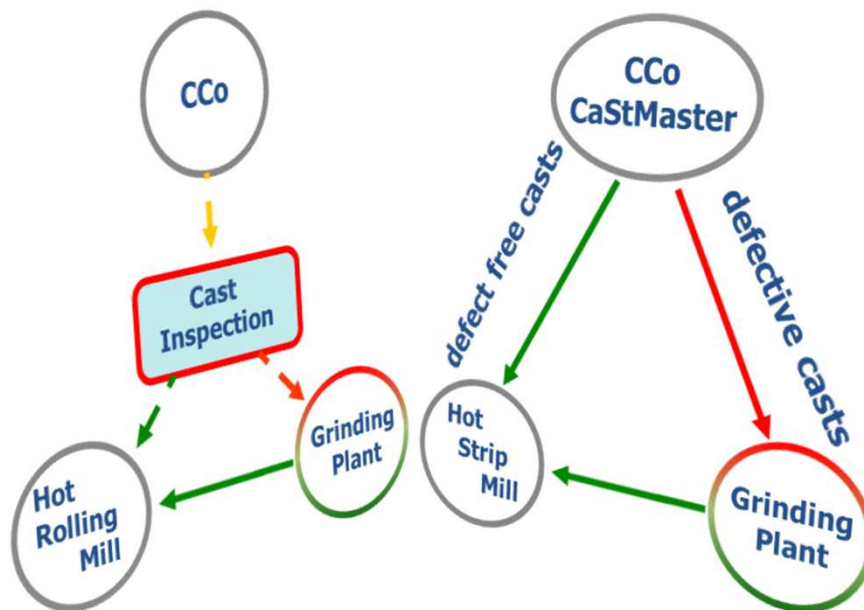
- In-line identification of defect-free slabs/blooms, to be directly hot rolled.
- In-line identification of defective slabs/blooms requiring grinding: longitudinal depression, deep OSM.
 - Cost reduction for inspection.
 - Build up of knowledge on casting

Industrial Arrangement:

Mould with built-in thermocouples in specific points.

L1 and L2 data available.

Solidification and secondary cooling models available.



castView, coolingView, BarCHECK and Q-pro² are other tools available to improve continuous casting process and quality of the cast products.

