



thermoMap

Problem:

During hot rolling, temperature differences between edges and surfaces of blooms and billet or surface anomalies on strips can induce process anomalies and defects.

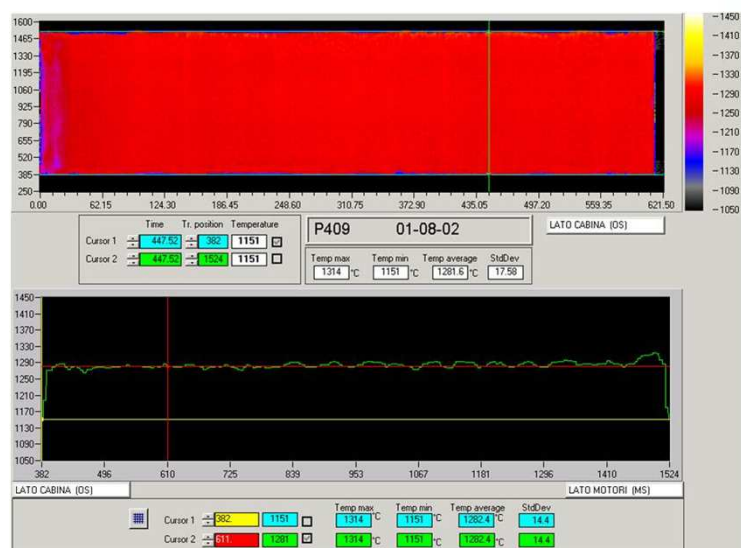
Solution:

thermoMap is ideal for the on line monitoring of the hot rolling process. Applied at the rougher mill, it acquires the thermal status and evolution of the edges and the relevant surface of the product.

Mean temperature value of head, centre and tail are calculated, as so as the Max and Min temperature acquired for a rolling sequence.

Special auto-range routines allow to outline thermal anomalies.

Min and Max allowable temperature limits operate as warning thresholds.

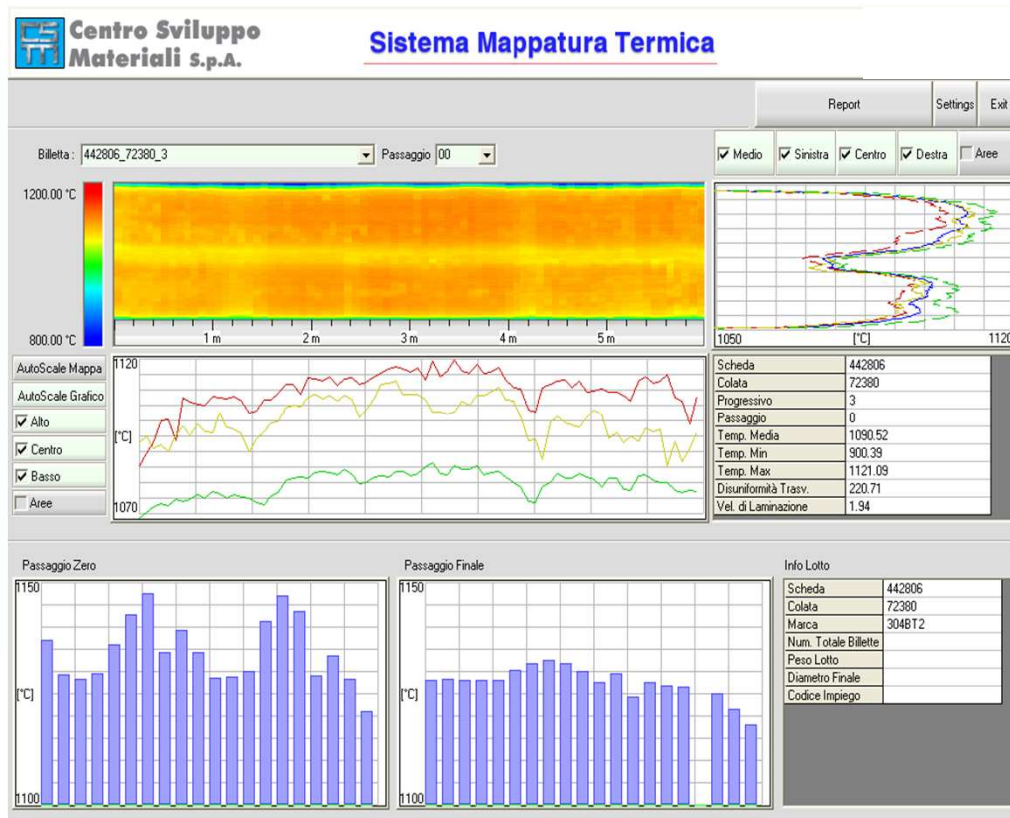


Benefits:

- A powerful tool to qualify the production.
- A help for identifying possible origin of defects during hot rolling process
- Optimization of reheating procedures to equalize edge and surface temperatures.

Industrial Arrangement:

thermoMap is robustly installed at rougher and or finisher stands.
Tracking data are required for the construction of the dataset.
thermoMap includes HW and tailor made SW for storage and data mining.



thermoMap, barCheck and rollingView when used together, help improving hot rolling process knowledge and quality of the rolled products.

Q-pro² is suggested to collect all quality data from thermoMap.