Continuous casting turret

The ‘turret’ is the tower system bringing the ladles on top of the tundish, such that the actual casting can be done.

A virtual engineer, fully dedicated to the state-of-health of your installation: **InfraLytics®**

Slewing bearing health

Every time the ladle has been emptied, the tower is continuously, but slowly, rotated 180° around its central axis. The structure, and more specifically the swivel or slewing bearing, can suffer from extensive degradation, locally, or over a more extended section. A dedicated monitoring, coupling process information such as weight of the charge and rotational angle with data generated through high-frequency, high-sensitivity 3D accelerometers, current coils, inclinometers and temperature probes in a smart way provides a way of continuously, tracking bearing health.

Motor health

Motors are essential for both the rotational movement as well as the casting (tilting) operation. Failure or malfunctioning is best predicted well in advance. Combining a follow-up based on vibrations, temperatures and electrical currents or pneumatic pressures the state-of-health of the motors can be tracked continuously, deviations detected in an early stage and unwanted standstills prevented.

Process deviations

Using the data available in the Historian or SCADA system the operation of the installation is continuously parametrised. The different stages of the process are automatically identified and matched with structural vibrations or inclinations. When properties start deviating or unexpected values, trends or resonance ohenomena are detected, a warning is sent. The follow-up is based on process knowledge as well as models trained on the behaviour of the specific asset followed.

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