APPLICATION SOFTWARE AND PLANT AUDITS

SIMULATING AND SUCCESSFULLY OPTIMISING PROCESSES

Computer technology provides you with a glimpse into your plant’s future

Lechler uses in house developed application software programs in order to work out optimum solutions. This enables nozzle configurations to be simulated, analysed and depicted.

Lechler configuration programs have also been used successfully for many years during the design of new plants. Nozzle data from Lechler measuring technology forms the basis here for reliable calculations that reflect reality.

Solidification model for continuous casting machines

So that we can also be a competent consultation partner with regard to questions relating to the optimisation of nozzle configurations in continuous casting machines, Lechler has developed a solidification model with which benchmarking can be carried out within the context of a plant audit. On the basis of this and in line with the aims, it is then possible to investigate optimisation potentials in detail.

Lechler DESCALE

With the introduction of the SCALEMASTER® descaling nozzles in 1992, Lechler was the first nozzle manufacturer to develop and successfully use a configuration program. Since then, most descaling plants of the largest and most renowned plant builders have been designed and constructed with Lechler DESCALE software.

Hundreds of descaling spray headers throughout the world have been optimised in this way. In all cases, with this tool Lechler has also made a crucial contribution towards increasing surface quality and plant efficiency.

Roll cooling, strip cooling and lubrication

Lechler has developed a special computer program for optimising work roll cooling. The measured nozzle data and the installation conditions can be used to graphically depict (in the form of flow diagrams), analyse and improve the liquid distribution on the roll surface.

Strip cooling, cleaning and lubrication solutions can also be derived in this way.

Temperature profile of a continuous casting machine

The Lechler DESCALE software optimises the nozzle arrangement on a descaling spray header

Liquid distribution for strip cooling

Visualisation of the nozzle arrangement for strip cooling