



SUSTAINABILITY



Innovative Technologies Lead To Sustainable Manufacturing, Higher Performance And Protect Environment

Sustainability must be a holistic approach

Creating sustainability throughout the entire manufacturing process is the current challenge. To meet this challenge, it is necessary to implement the most modern techniques in the buildings, factories, in the production, in the machines and new technologies. The new technologies accurately monitor the manufacturing process, analyse it to operate effective maintenance that saves costs, conserve materials and ensure that production never stops and moreover deliver high performance. HF has spent a lot of budgets in recent years to upgrade its factories to save CO₂, generate its own energy and to produce CO₂ neutral in a few years. In addition, HF's heating presses are specially insulated to minimise energy loss during heating. Furthermore, in the foreseeable future, we will be able to digitally monitor and analyse the complete heating process to have exact indications for an increase in performance.

CO₂-saving during the tyre curing process by optimised heating systems

With CO₂ emissions and costs linked to it, energy-saving initiatives become of higher relevance day by day, and this is why HF's customers are getting more eager to reduce the overall energy demand per tyre cured. To support its customers with the necessary expertise, HF researched the field of process optimisation and product benchmarking to identify the most promising solutions when it comes to equipping your curing press. Using state-of-the-art technology such as CAE-tools laboratory testbeds to compare single part performance and on-site trials to prove the overall potential of different solutions, HF is constantly expanding its market and technology overview. Based on this knowledge and experience, the company can find the best solution together with its customers.

HF's digital monitoring of the tyre curing process

HF has just started a fascinating development of a digital solution approach for condition monitoring of tyre curing presses. With this solution approach, HF primarily wants to keep the cycle times of curing presses stably low to increase the curing output. Additionally, HF also wants to avoid unplanned downtimes through targeted early warnings, support repair and maintenance measures and intends to reduce the need for spare parts.

Bringing these developments together is giving its customers the edge over the competition.

All these efforts are undertaken to answer the most frequently asked questions by the tyre producers:

- ◆ Do I run my equipment on optimal energy consumption?
- ◆ How can I minimise my operational cost?
- ◆ I want to increase production output. How can we speed up the cycle time and gain an advantage over the competition?
- ◆ How can I reduce:
 - my CO₂ footprint
 - unplanned downtimes due to early warning of incidents such as leakages, wear and tear
 - repair times by indicating root causes for errors and thus support focused countermeasures
 - planned maintenance times by directing the focus of action to issues that need to be taken care of

HF is ready to provide more information on digital monitoring of the tyre curing process if these questions sound familiar. ■

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