

Case Study – Construction of a HBI plant

Insite LMS Cloud Solution increases quality and reduces error rate



Construction of a HBI plant

For its showcase project in large-scale plant construction, an international group used the software Insite LMS developed by the Austrian software company INSITE IT. After completion, the plant annually produces around two million tons of high quality HBI (Hot Briquetted Iron) as a demanding raw material for steel production.

Software especially for plant engineering

The logistics for such a large-scale project is a highly complex process. In order to manage this complexity, not only the customer, but also their suppliers used INSITE IT's software solution. In this case, Insite LMS was used as a cloud. Thus, all persons involved had constant access to all current data. Around 30,000 tons of single parts were managed via the software. About ten companies were involved in the complex delivery and assembly.

Thanks to Insite LMS, builders and suppliers always had an overview. The data always showed the most current state and thus, the ideal plannability was given. The software also ensured the flexible coordination of the material flow. The result was really impressive: The error rate of the project process has been expressively reduced and the company needed significantly less man hours than comparable projects.

Mobile tablets and cloud servers have for quite some time now been used in many areas of plant engineering. The most well-received aspect of the project was the progress assessment, which is directly linked to the scheduling. These qualified data, which hadn't been available in a comparable depth, were the basis for the extensive optimization during the construction of this plant.



Mobile materials management



Mobile defect detection



Simple reporting



Central cloud platform



Solution

Digital material entry and defect detection
Progress assessment
Elimination of error sources
Less coordination required



Facts & Figures

- Construction time approx. 2.5 years
- Costs of around 550 million Euros
- 30,000 tons of single parts
- 10 companies involved

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Easiest handling and transfer to the cloud via tablet directly at the construction site. In this way, Insite LMS optimized material management at the construction site.



The Insite LMS software is more than just a logistics system. It is used to manage the entire material, deficiency and site management of the large-scale plant.

The latest and largest HBI plant was completed within the shortest possible time

Already during the construction phase, the new direct reduction plant was equipped with smart logistics. All the electrical, electronic and pipeline parts and components for conveyor technology were installed and documented in detail by the Insite LMS software. What happened on the site was transferred to the cloud in real time. The fact that the software Insite LMS was developed especially for plant engineering and that it can be used in the cloud was the decisive argument in this project to commission the experts of INSITE IT.

“The actuality of the detailed data and thus the predictability and flexible coordination of the material flow was drastically improved compared to the traditional method with a lot of paper and Excel files,” summarized the client after project completion. Even after the plant went into full operation, it still impresses with faultless logistics. Insite LMS was a good basis for this project to represent the materials, logistics and defect management as well as the progress assessment of the project.

