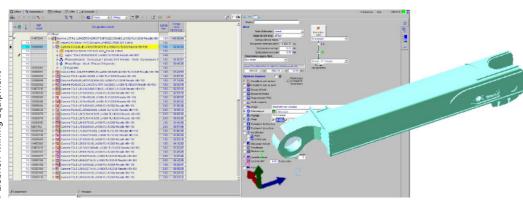
Liebherr-Mining Equipment Controlling production costs thanks to Cetim TechniQuote

Liebherr-Mining Equipment manufactures equipment for mining operations. The company uses Cetim's software for estimating time and cost details in order to assess the quotes issued by the sub-contractors manufacturing assembly parts.



OUR CUSTOMER

Corporate name Liebherr-Mining Equipment SAS

Workforce

approx. 650 employees

Business activity

Liebherr-Mining Equipment designs and manufactures large hydraulic shovels and trucks designed for mining operations in extreme conditions (gold, coal, platinum mines, etc.) at its site in Colmar, Alsace, France. Its machines are powered by diesel engines or electric motors and are used worldwide.

iebherr-Mining Equipment, based in Colmar (Haut-Rhin, France), manufactures hydraulic shovels and trucks: complex assemblies combining machined parts and sheet metal entrusted to its sub-contractors. "We needed sophisticated software able to simulate/calculate manufacturing costs in order to question the rates suggested by our suppliers on an equal footing", explained Frédéric Kieffer, a corporate cost optimisation engineer. In 2016, the industrial firm opted for Cetim's TechniQuote. In practice, the user drags and drops a CAD file in the software window. TechniQuote will automatically detect the types of parts (geometry and associated technical data) and can then be used to configure the geometry of weld seams. The software then estimates manufacturing

lead times and cost for each part and the entire assembly. This quote is supported by a full-scale "virtual plant", i.e. a massive database for materials and machines. Liebherr-Mining Equipment uses this software to produce quotes for assemblies ranging from 30 to 80 parts, and sometimes more.

Cost reduction

"The cost of each part is analytically broken down in TechniQuote, considering procedures, phases, shapes and

Cetim's asset



Cetim's TechniQuote tool can estimate the costs of complete sheet metal or machining assemblies either manually or automatically. The software extracts geometric and technical data from 3D CAD files in order to estimate costs to match the user's assemblies as closely as possible.



operations in order to identify which are the most costly, and above all, why", explained Cetim's Maryse Provost. TechniQuote can also be used

to compare the prices of the different manufacturing alternatives. The Liebherr- Mining Equipment engineering team uses both of these functions to boost the design of its parts. "We start with a "top 5" for the most expensive parts, and discuss how we could reduce the inherent costs in-house,

e.g. by modifying the design, the

material used, or the associated

quality requirements, and then

we advise our design team",

TechniQuote has been up-

graded since its launch, with

the addition of a sheet metal

module. Thanks to a pilot

version proposed to various

stakeholders, including

Liebherr, the module has been

adapted to field requirements

and part types are automati-

cally identified by the software.

detailed Frédéric Kieffer.