

Introduction

cards PLM Solutions, based in the Netherlands, is a *Preferred Tecnomatix Business Partner* of Siemens UGS PLM Software. Our focus is on the simulation technology of *Plant Simulation* (formerly known as eM-Plant). Our highly skilled consultants have more than 8 years of expertise in the modeling, analysis and optimization of all kinds of processes. We have provided our services in a variety of industries, such as manufacturing, warehousing, healthcare, airport logistics and more. cards PLM Solutions implements the Plant Simulation software and delivers on-site consultancy, customized trainings and help-desk support. The customer case below is a short overview of a Manufacturing Optimization project that we have performed in the past.

DAF Trucks

Company overview



Founded in 1949, Van Doorne's Automobiel Fabriek (DAF, a wholly owned subsidiary of Paccar, Inc.) has grown to one of the leading truck manufacturers in Western Europe. The company is renowned for its quality designs, build quality, and excellent customer service. It is no surprise that DAF Trucks has won many "International Truck of the Year" awards.

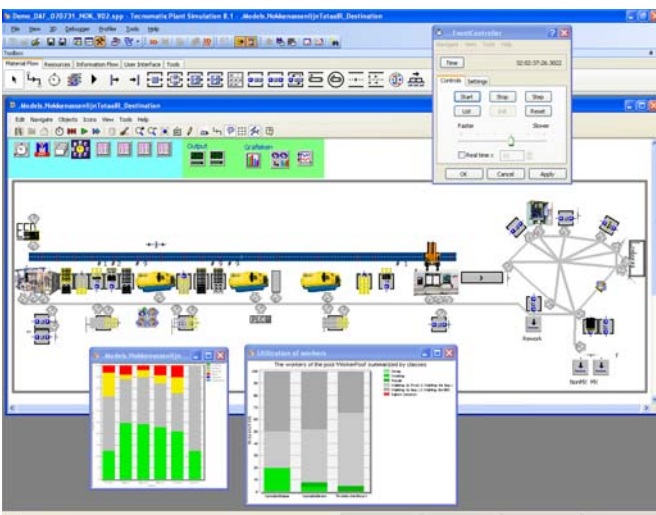
Business case

DAF Trucks' successful growth required the optimization of its current processes, and the design of new manufacturing facilities. Since its manufacturing systems are complex and dynamic, simulation was the tool of choice for DAF Trucks. In this project, the production of camshaft was analyzed and optimized. Process Engineers from DAF Trucks' Engine Plant were trained in the use of Plant Simulation. Together with a consultant from cards PLM Solutions, a very accurate model was built and many scenarios were studied.



Benefits and results

- The study indicated the maximum output that could be achieved by the current camshaft production line.
- Simulation helped DAF Trucks to make the right investments; this single project had an ROI > factor 10.
- Simulation fostered knowledge and discussion about the design of DAF Trucks' manufacturing processes.



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