



## **INDUSTRY**

Aerospace

#### **APPLICATION AREA**

Manufacturing

#### COUNTRY

The Netherlands

## **CHALLENGE**

Insight into the impact of different uncertainties in a production process during the design and start—up phase.

#### **RESULTS**

- Fokker was able to make founded decisions during the design phase regarding the production schedule, required capacity and production control.
- During the operational phase
   Fokker always achieves the
   required Key Performance
   Indicators, by correcting the
   production based on the results of
   the simulation analysis.

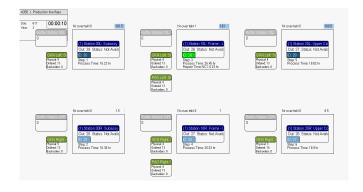
# Fokker always achieves the required Key Performance Indicators by using simulation software!

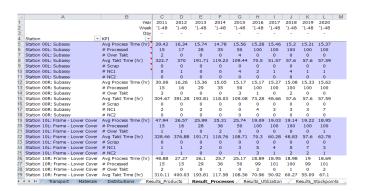
# **FOKKER AEROSTRUCTURES**

Fokker Aerostructures is working on the design and start—up of an assembly line for wing components of the Airbus A350. In the coming years, Fokker will supply these parts in large numbers. The quality requirements of the components are high and there are strict delivery conditions defined.

Within the production process Fokker has to deal with many different uncertainties. For example: processing times are variable, process times will change due to learning effects and at different points the process is dependent on material availability. To understand the impact of these aspects in relation to the intended production control system, Fokker has chosen to work with the simulation software Enterprise Dynamics.







## **BENEFITS FOR FOKKER**

With Enterprise Dynamics a simulation model is developed of the entire production process including internal transport. With this simulation model, various scenarios were tested to get insight into the effects of the variations. In this manner, Fokker was able to make founded decisions during the design phase regarding the production schedule, the required capacity and production control.

Fokker is planning to use the simulation model regularly in the future for new analyzes, based on current data from the production process. Based on the results, the production can be corrected and therefore always achieve the required Key Performance Indicators.