

Superba

Designing safe machines

Superba's top management called on Cetim's operating safety specialists in order to quickly react to the forecast performance of a competitor machine which stood a chance of challenging the company's strategy and results. As a result an innovative curling machine, providing a 99.9% availability, was created and became the market leader.



OUR CUSTOMER

Corporate name
Superba

Sales turnover
35 to 40 million euro

Activity
Manufacturer of textile machinery, Superba group markets thermofixation lines for carpets and fitted carpet in more than 75 countries spread on five continents. 90 % of the production are exported

Workforce
200 people

As of the first stages of design, the operating reliability methods bring an efficient help for improving machines performances. At Superba, the challenge was important. "We were confronted with a competitor's offer which was likely to destabilize markedly the market, explains Michel Mazoyer, in charge of the design department Development at Superba. *We had to react quickly and propose our customers a curling machines answering their needs and having a guaranteed reliability.*"

Close to 100% availability

Assisted by experts of Cetim, Superba's engineers then defined the mission profile, the production goals and the efficiency required for this new curling machine.

The goals having been defined, it was necessary to split the future machine in functional sub-assemblies, list the possible failures, establish the performance criteria for each module (MTBF: mean time between failures - MTTR: mean time to recovery) and to define a global availability allowing to reach the goal.

"We wanted a machine operating without stop 340 days - 8.100 hours - a year and requiring a maximum of 220 hours of cumulated adjustment times for the batch changes", states Michel Mazoyer. Having stated the constraints, each functional component had then to be designed so that, brought together, they satisfy the expected goals.

"Cetim assisted us during all the development stages of the availability computations",

says Michel Mazoyer. And the success came!

Based on a new concept, the MF/4 ensures a significant increase in production compared with former machines. The lay down speed reaches 600 m/min and 48 threads can be treated simultaneously. The MF/4 curling machine was put on the market extremely quickly and is available 99,9% of time. Outstanding performances which immediately became an international reference, allowing the company not only to block foreign competition, but also to win important market shares.



Cetim's asset

For more than 15 years, Cetim has supplied the industrial companies with the benefits of its experience in the implementation of equipment reliability methods.