# Plant Computation more Quickly Practicable

The basic concept behind the Engineering Tool CADISON® is the data continuity in all modules and the automatic data adjustment in case of modifications. Mainly this data consistency convinced the plant constructor LTH Dresden. The company saves up to 50% of time by adapting the catalogue module MATPIPE (pipe specification and catalogue management) in tender preparation and compilation of required spare parts.


## Automated Computation

LTH Dresden has been using the installed Engineering Tool CADISON® since 2004. Automatic data adjustment in case of planning modifications has been the decisive aspect for selection of this tool. Mr. Andreas Hiegelsberger, Project Engineering Manager of LTH reports: “We have been looking for a tool that may reliably bring together all drawing components in one computation list.” One of the standard features is the generation of a current parts list as Excel table “by pushing a button”. LTH went one step further with CADISON® and developed an automatic compilation method – the result is a ready-made quotation as Word report.

## Reduced work load

Since LTH submits about 800 quotations per year, adoption of the system results in reduced workload for project design engineers. “While the project is running through several phases at tendering stage – and this happens frequently in practice – enormous time and cost savings are possible. And we are always sure that calculation and quotation are in accordance with the current state of planning”, said Mr. Hiegelsberger. Time saving is convincing: “For a project with a value of 3 to 4 million we today need some 20 hours for preparation of the first quotation – and in the years before we had to invest double the time.” Specifically in case of large-scale projects the company had been successful and could convince many customers through prompt submission of quotations.

Now LTH went another step further: The MATPIPE Catalogue had been extended through the category “Spare parts”. In the phase of project implementation, customers expect even a list of vital spare parts at a very early stage already, including the prices. The focus in this list is laid on most essential spare parts recommended by manufacturer.

## Spare parts

The project design engineer requests from the supplier the information about relevant spare parts for each component (pump, valve, mixer etc.). The planning engineer does not only handle the spare parts in an Excel list but even sets link-ups in Matpipe in the new category “Spare Parts”: For example, the valve 3315 is linked up with the spare parts 4516 and 8314. This method becomes standard for all future planning work: In case the planning engineer re-selects the valve 3315 from the catalogue in a project to be handled later, the engineer will automatically get the listed associated spare part(s). Thus each component is associated with the background information about spare parts that the customer should keep in store.

This new approach is very attractive for a company with many hundreds of quotations to be submitted each year. In former years the employees had to invest up to 100 hours for