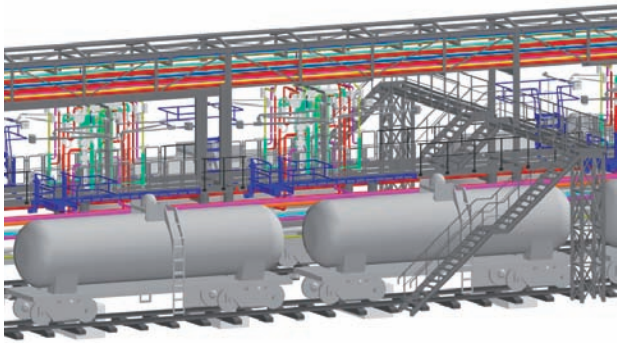
Case Study

Engineering office R. Großmann GmbH & Co. KG

The engineering office of R. Großmann, Bad Ditzenbach Gosbach, is active in the areas of civil engineering, construction engineering, environmental protection, building of energy installations, heat engineering, electrical engineering and control engineering. As a general contractor, IB Grossman carries out the complete project handling from one source, right from the planning of the authority engineering, to the purchase of all components as well as the installation management and commissioning.

For some years the engineering office has strengthened its presence in foreign markets, particularly in Russia. As a result a separate office was set-up in Moscow, in order to be able to provide better service to the customers.

One of the IB Großmann planned and installed railway tanker loading stations.



This is how the 3D-CAD-Planing looks with TRICAD MS.

Project: 'Permneftegaspererabotka' (Russia) — **Industrial Sector: Petrochemical**

Project	For the transport of the liquid gas/gasoline products between the fuel depot and the associated loading station, the new construction of a complete pumping station including piping systems as well as ET I&C electronics technology is necessary. In order to enable an automated loading activity, the existing plant components for the area of ET I&C electronics must be adapted to the up-to-date valid standards, i.e. the existing valves are to be exchanged. The goal of this measure is to be able to comply with the increased security requirements. There are altogether 72 liquid gas loading arms DN 80 and 72 gas reconducting arms DN 50 including the necessary measurement and control equipment which need to be installed at the loading platform.
Length	434 m
Capacity	72 Cars (36 on each side)

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The task

The Großmann engineers possess great know-how in the conception of loading plants for road tankers, railway tank cars and ship loading plants for liquid and gaseous mineral oil products. In addition, they also have expertise in the planning of railway tanker loading stations with top-loaders for the loading of liquid gas.

Because of this, IB Großmann received the contract from Russia for the planning of the worlds largest railway tanker loading stations so far: The loading station for liquid gas is precisely 434 m long. 72 railway trucks (36 on each side of the station) can be filled simultaneously from the nearby fuel depot.

The solution

In order to be able to complete this extensive order quickly and also to make it visually comprehensible for the client, IB Grossmann changed to TRICAD MS. The reasons: "Besides the technical planning advantages and the matured status of the TRICAD software, it was an important aspect for us, that we keep the door open to the automobile industry. Since there, this software is virtually specified as a standard for the building services planning", says Großmann project engineer Edgar Kastner.

The advantage

"The change over to 3D-CAD and TRICAD MS was a clear leap in quality – for us as well as for our clients. We save time, because we have different planning views or complete material lists available to us at the push of a button. Also, we plan qualitatively simply better, and can for example exclude collisions as far as possible", reports Edgar Kastner and his colleague Jutta Wagner.

Important: The Freeze point, from which the planning is rounded off and may not change any more, can clearly take place earlier, there remains more time for a precise tender, and orders for components can clearly take place earlier – for a general entrepreneur such as IB Großmann it is an advantage relevant under quality such as cost criteria. And: "The TRICAD model helps us through to the assembly instructions and assembly monitoring, because we can very clearly show to the Russian assemblymen, what is to be installed where."

„Clear quality-leap through 3D-CAD with TRICAD MS"

Kontakt

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