Beat: Miscellaneous

Firesta “‘ Road & railway civil engineering leader in CEE

One-stop-shop for bridges and other comp

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Wopag - Bridges have been the core product line since founding Firesta in 1989. Firesta always invested into senior inhouse project team in order to ensure first in class technical documentation and perfectly prepared projects. It has paid back many times when challenging structures had to be delivered under tight deadlines. The inhouse project team holds extensive expertise on auxiliary structures and supporting rings. Firesta gradually invested into new technologies and production capacities and soon became one of the CEE leaders in road and railway construction industry. Current production and engineering capacities allow Firesta to deliver complex assignment maintaing all the core high value added activities inhouse. Firesta is aiming to continue differentiate from the rest of the market by being a one-stop-shop for any investor requiring on time delivery of complex project. This position is only possible thanks to experienced inhouse project team that is able to support any stage of production by delivering precise project design documentation.

The inhouse project team delivers design documentation not only for Firesta production centers and plants, but also for other 3rd parties that are in need for complex design solution. Firesta project team supports inhouse production capacities in preparatory phase and in production phase.
In preparatory phase is project team focusing on maximal utilization of inhouse capacities and technologies in order to deliver maximum efficiency and minimize potential time gaps. Preparation of a 3D model became a standard of preparatory phase especially for bridges and other complex structures. Firesta project team is using latest projection technologies like Advance Steel for the 3D models and Scia Engineering for static design.
The project team is playing a key role during production phase while delivering detailed assembly documentation which is also available in 3D in order to avoid potential spatial collision on the assembly.

Picture 2 - A new railway bridge over the Nosický Canal, Púchov - PovaÅ¾skÃ¡ Bystrica, runs a double-track line through the channel of the Nosický Canal VÃ¡h and the adjacent inundation area. The construction consists of six plain fields marked NK1a, NK1b, NK2, NK3, NK4a and NK4b with spans of individual fields 30.60 m + 30.60 m + 124.80 m + 124.80 m + 30.60 m + 30, 60 m

Picture 3 - 3D model in the program Advance Steel, weight of one structure is 1 760 t
Structures NK2 and NK3 consist of a pair of solid beams reinforced by an arch and a lower sheet orthotropic deck with a continuous track bed. The chamber cross-sections of beams and arches are designed as through sections.
Picture 4 - Block assembly of the steel structure, it was necessary to perform gravel backfilling of a large part of the watercourse of the Nosický channel, securing the position during the assembly of the bridge deck, assembly rectification of the structure in both directions.

The main advantage of the inhouse project team is the ability to adjust perfectly to the needs and time requirements of the investor. At the same time - the expertise acquired by the inhouse project team enables adapt each project to inhouse capacities and technologies. Firesta can thus provide a comprehensive service to its customer and investors.

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