

# NIEDERWARTHA BRIDGE

## MEIßEN - GERMANY

### ► THE PROJECT

*The Niederwartha cable-stayed bridge was constructed by Plauen Stahl Technologie GmbH between Niederwartha and Meißen. The Bridge will consist of 1232 tons of steel and will be over the Elbe River. It will be the first cable-stayed bridge in Saxonia and the longest one in Germany.*

#### ■ Project characteristics

- > Creation of welding preparation and folded plates
- > Exact geometry creation of single components
- > Use of special functions to create difficult folded plates in 3D

#### ■ Solutions

**Software used: Advance Steel**

- > Creation of the Bridge Model in modular form
- > Updates
- > Checking the model for collisions



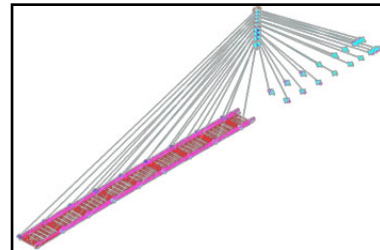
### ► QUESTIONS TO MR STREIT, CONSTRUCTION ENGINEER OF THE PLAUEN STAHL TECHNOLOGIE GMBH

**Mr. Streit, can you please give us some information about the project?**

The Niederwartha cable-stayed bridge will have a total length of 366 meters and a main span of 192 meters. The construction has 1232 tons of steel, including a 77-meter high pylon and 36 steel cables.

**What was the biggest challenge of this project?**

First of all, the bridge was created in a 3D model to define the amount of steel. For the exact definition and creation of the single steel components, welding preparation and folded plates were created in the model. Afterwards, workshop drawings were created for the assembly of single components. Advance Steel is an excellent tool for this project.



**Why did you decide on Advance Steel ?**

In GRAITEC Advance Steel the creation of models as well as the parts lists and NC-files in the DStV-format can be established in a modular way. Since we fabricate steel constructions on our own, the creation of exact geometry and NC-files from the model is very important to us.

The low error-rate and the very good capability of the drawing updates enable us a clearer and more exact construction. The use of Advance Steel was a complete success for our work.

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