



# Niederwartha Bridge

Meißen -Germany



## The Project

The Niederwartha, cable-stayed bridge was constructed by Plauen Stahl Technologie GmbH on the Elba River between Niederwartha and Meißen at a cost of 13million euros. The bridge, completed at the end of 2008 is 366 metres long and will consist of 1232 tonnes of steel. It will be the first cable-stayed bridge in Saxonia and the longest on in Germany.

## Project Challenges:

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

## Software Solution - Advance Steel

- Creation of the bridge model in modular form
- Updates
- Checking the model for collisions



## Questions for Mr Treet, construction engineer of the Plauen Stahl Technologie GmbH

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

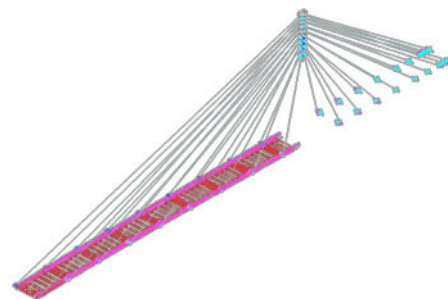
"The Niederwartha cable-stayed bridge will have a total length of 366 meters and a main span of 192 meters. The construction has 1232 tons of steel, including a 77-meter high pylon and 36 steel cables."

### 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."

### 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."



## GRAITEC UK LTD

The Old Forge - South Road  
Weybridge - Surrey - KT13 9DZ

Tel: 01932 858516

mail@gratec.co.uk  
www.gratec.co.uk

**Autodesk**  
Authorised Developer

