

OLYMPIC SKI JUMP

GARMISCH-PARTENKIRCHEN – GERMANY

► THE PROJECT

The new ski jump for the Olympic Winter games was constructed by Bitschnau GmbH from Austria. The commission of the Bitschnau GmbH included the realization with workshop drawings and assembly of the ski jump, the referee tower and other steel elements of the jump. The ski jump consists of 655 tons of steel.

■ Project characteristics

- Modeling of curved beams
- Creation of Workshop drawings
- Fundamental beams are 90 percent by welded beams

■ Solutions

Software used: Advance Steel

- Increased productivity
- Profile libraries



► QUESTIONS TO MR. HUBER, MANAGER OF BITSCHNAU GMBH



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

The steel construction has a total weight of 655 tons. The single steel parts were prefabricated on the ground and finally assembled to a height of 35 meters by using screw and welding connections. The ski jump was completed in December 2007 and it was inaugurated during "Vierschanzen-Tournee" 2007/2008.

Can you give us a special characteristic of the project?

The supporting profiles are created out of welded beams, which are 90% of the fundamental beams. They change their cross-section permanently. Due to the function of the "intelligent connections" in Advance, the sections change themselves regardless of where the profiles are cut. Each profile can be cut at any place but the geometry is never the same.

Additionally the profile libraries provided our construction engineers a wide range of profiles, which where necessary for the construction of the ski jump.

Why did you decide on GRAITEC Advance?

Advance increases our productivity and, therefore, also our work. The software was an excellent support when designing the jump, especially regarding all the constructive challenges.

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