Reliability, quality and efficiency “made in Germany”

On the northern edge of the HARZ region in Germany, midst a lovely hilly landscape on the bank of the river Bode, one finds the thousand year old town of Quedlinburg. It is also the hometown of Walzengiesserei & Hartgusswerk Quedlinburg GmbH.
The foundry has demonstrated its craftsmanship for over 140 years now. To this very date still, a knowledgeable and qualified team of experts complies with the requirements of numerous customers in a global market in which rolls and wear-resistant cast products have demonstrated their value in various sectors of industry.

Walzengiesserei & Hartgusswerk Quedlinburg GmbH selected GEMCO for the engineering and realization of a new centrifugal casting plant. The new plant is located right opposite their existing (foundry) works. The company produces -wear resistant- castings such as high quality rollers from nodular iron and cast iron in alloyed and non-alloyed grades for all industries. Since 1865, the company WHQ stands for reliability, quality, economy and efficiency "Made in Germany". The new foundry and new technology allows WHQ to secure their valuable assets such as their know-how and their capacity to innovate.

The aim of this project was to build a future-oriented roll foundry with the objective to produce specific parts of their product range more efficiently and economically, with the potential to double the production capacity. Since the foundry is located in the vicinity of a residential area, it was important to meticulously comply with the noise- and the emission legislations.
The planning of the new centrifugal casting facility began with the preparation for the approval of building permits (BimSch application). Simultaneously, the layout of the building, equipment and subsequent planning and specifications were determined.
The building construction was carried out by WHQ with decisive input from GEMCO. Furthermore, the scope of supply encompassed the complete foundry logistics and process-technical concept, the design and supply of equipment, the expandability, the coordination of all suppliers, the complete installation and commissioning.

A high cost factor in the existing works was the separation of the cast rolls into individual rings by rotary cutting, which is very labor-, material - and tooling intensive. For the new foundry, after careful investigation, analyses and cost calculation, GEMCO achieved to convert this operation into an unmanned 24-hour saw cutting production cell. The new saw-cutting also significantly reduces waste.

With the prospect to double the capacity of this competitive centrifugal foundry, expansion possibilities have already been taken into account in the planning and construction, including future utility requirements. It would require little effort and minimum time to realize further expansion of the facility.

WHQ and GEMCO worked in close cooperation, resulting in a successful realization of the new foundry facility.