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New SIEMAG TECBERG hoisting technology at Sishanling Iron Ore Mine makes convincing progress in installing and commissioning

In April 2022, we reported here for the first time in detail on the successful start of installation work on 3 shaft hoisting systems and other equipment for the Sishanling iron ore mine in China.

Just over a year later, the extensive installation of the rope sheaves and all 3 hoists has been completed and some of them have been put into operation: The two Koepe hoisting machines (4-rope / 6-rope) of the service shaft are already in operation. No-load commissioning was completed for the production shaft's 6-rope Koepe machine; rope-up started on 16.03.2023. Due to the slow construction progress in the area of the main shaft loading and unloading station, the commissioning of this hoist is scheduled for October 2023.

Fig. 1: Already in operation - the 6-rope Koepe hoisting machine of the service shaft.

Fig. 2: Also already in operation - the 4-rope Koepe hoisting machine of the service shaft.

At the moment, Tianjin SIEMAG TECBERG is busy on site with preparatory tasks for the commissioning of the main shaft. Once the ropes for the production machine has been laid, the installation and connection of the shaft switches and the connection of external equipment, such as the loading and unloading stations, is carried out successively. This is accompanied by various safety tests. Finally, the final commissioning of the production machine under load takes place, together with various tests of the control system and the final optimisation of the parameters of the drive and braking systems.

What is striking about this project is the very rapid handling of all project phases so far. In a customer satisfaction survey, the customer also attested to the absolutely professional and high-quality handling of the project by Tianjin SIEMAG TECBERG, from the engineering to the system integration and the installation of

the systems.

Further sources on the project:

- Press Release of SIEMAG TECBERG group dated 04/2022
- Video 1 (Installation Motor of a Koepe Winder; SIEMAG TECBERG group Youtube Channel, available 07.04.23)
- Video 2 (Impressions from the project Sishanling; SIEMAG TECBERG group Youtube Channel)

Fig. 3: The special feature of the three hoisting systems is the central control system. The control room is located in the hall of the hoisting machine of the service shaft. In normal operation the hoisting systems in the production and service shaft are all in automatic lifting operation. Furthermore, the two systems in the service shaft are fitted with wireless communication devices that enable the hoisting equipment to be controlled from the cage direct. This enables personnel to reach different levels direct.

The Company

The SIEMAG TECBERG Group supports its customers in the commodity markets and transport infrastructure with energy-efficient and intelligent hoisting technology as a world‘s leading supplier in this field.

Whether in the extraction of precious metal and industrial metal ores to supply green technologies with the necessary natural resources, or in the extraction of mineral salts for the production of mineral fertilisers - SIEMAG TECBERG Group‘s system-integrative overall solutions always convince with excellent engineering know-how, extensive system tests of the equipment with factory commissioning on heavy-duty test fields and digital service concepts including condition monitoring and service management.

The technical focus of the SIEMAG TECBERG group is on the development, design, manufacture, commissioning and technical service of shaft hoisting systems for the vertical and inclined conveying of raw materials. In doing so, the SIEMAG TECBERG group has distinct engineering competences for mechanics, hydraulics, drive and automation technology. Unique reference projects worldwide demonstrate the overall plant competence and leading position of the SIEMAG TECBERG group. The group offers knowledge-based services for the supply of customized machinery and equipment for the following industrial applications:

Hoisting and conveying technology

- OEM Shaft Hoisting Technology for Underground Mines and -Waste Deposits
- OEM Material Handling Technology
- Systems Integration Automation and Drive Technology

Cooling

- Cooling and Ventilation Technology for Underground Mines, Waste Deposits and special Tunnels
- Systems Integration Controls and Automation

The niche specialist‘s technology emerged from a forge founded in 1871 in Siegerland, which produced equipment for local ore mining and the iron and steel industry in the german-South Westphalian Siegerland region. Following a management buy-out out of the SIEMAG-Weiss-SMS network 2007, SIEMAG TECBERG was founded by Jürgen Peschke, who is CEO and Controlling Shareholder of the SIEMAG TECBERG group.

The SIEMAG TECBERG Group is represented on all continents by at least one subsidiary and works together with cooperation partners worldwide. In addition to the headquarters with the assembly plant in Haiger (Germany) north of Frankfurt am Main, other locations are situated in Rugby (UK), Katowice (Poland) and Moscow, Norilsk, Berezniki and Belgorod (Russia).

Further sites with own assembly plants are located in Tianjin (China), Sydney and Mayfield East (Australia), Johannesburg (South Africa) and Milwaukee/Denver (USA). The group employs about 405 people worldwide.

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