

*Sanjiao / Haiger, April 2023.*

## **Contract with Chinese company Shanxi Datuhe for the supply of 3 shaft hoisting systems for 2 vertical shafts**

SIEMAG TECBERG group, together with its Chinese subsidiary Tianjin SIEMAG TECBERG, is pleased to announce the signing of a supply contract between **Shanxi Datuhe Coal Industry Co. Ltd.** and **Tianjin SIEMAG TECBERG Machinery Co. Ltd.** for the supply of shaft hoisting systems and further equipment for the Shanxi Linxian Guangming Mine on March 15, 2023.

### **The customer**

The client Shanxi Datuhe with a registered capital of 1 billion yuan is a wholly-owned subsidiary of Shanxi Datuhe Coking Co., Ltd. and is a leading enterprise and major taxpayer in Lvliang City.

### **The underground mine**

The Shanxi Linxian Guangming Mine is an underground energy resources mine. The Chinese mine is located in Kangjiagetai village, Sanjiao township, Linxian county, Lvliang city, Shanxi province. The planned production capacity of the mine is 2.4 million tons per year and the mine life is 92.6 years. The construction of the mine with its two new shafts (1 main shaft for production / 1 service shaft) is listed as a key project of Shanxi province in 2022. Energy resource reserve is estimated at 215.48 million tons with recoverable reserves of 145.388 million tons. The mine covers an area of 23.5588 km<sup>2</sup>.

### **Scope of supply**

The current contract requires SIEMAG TECBERG to undertake the engineering, production, delivery, supervision of assembly and commissioning of the following equipment:

#### **OEM-hoisting technology for the production shaft with Ø 6m used for energy resources production**

- The hoisting system consists of a 20t double skip system with a floor-mounted 4-rope Koepe winder with Ø 4m directly driven by an AC motor with 3,300 KW power (56 rpm), designed for an hoisting distance of

675 m and a hoisting speed of 11.74 m/s, including a type ST3-F hydraulic braking system and 4 head sheaves Ø 4 m for deflection.

#### OEM-hoisting technology for the service shaft with Ø 8,5 m used for material hoisting and men-riding

- Set 1 hoisting system consists of a big double cage system with a floor-mounted 4-rope Koepe winder with Ø 4,5 m directly driven by an AC motor with 1,800 kW power (36 rpm), designed for an hoisting distance of 640 m and a hoisting speed of 8.48 m/s, including a type ST3-F hydraulic braking system and 4 head rope sheaves with Ø 4,5 m for deflection.
- Set 2 hoisting system consists of a small transportation cage system with a 4-rope Koepe winder with Ø 2.25 m indirectly driven by a motor with 280 kW power (740 rpm) via gearbox, designed for an hoisting distance of 640 m and a hoisting speed of 7.58 m/s, including a type ST3-F hydraulic braking system and 4 head rope sheaves with Ø 2,25 m for deflection.

#### Further equipment

- The total length of head ropes included in the scope of delivery is 2,830 m
- The total length of tail ropes included in the scope of delivery is 2,210 m
- Equipment for loading/unloading is included in the scope of supply, but is purchased from a third-party supplier. Tianjin SIEMAG TECBERG acts only as general contractor for these trades. The engineering for these equipment parts is carried out by the supplier.

This project of Tianjin SIEMAG TECBERG is yet another example of the confidence that the underground mining industry in China places in the shaft hoist technology and competent engineering services of the SIEMAG TECBERG Group. The worldwide expertise of SIEMAG TECBERG engineers is based on hundreds of references from a wide variety of individual customer projects, each with its own technical requirements. Based on this wealth of experience, the SIEMAG TECBERG group designs shaft hoisting technology at the highest level, enabling customers to operate highly efficient underground mining operations in the field of raw material extraction.

## *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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