

Press Release

Multitasking inside a steel mill

Custom-made auxiliary motor shaft for Spanish plant

Berlin – Menzel Elektromotoren from Berlin has recently engineered a specially adapted replacement motor for a compressor drive in a Spanish steel mill. The squirrel-cage induction motor with 3,400 kW rated power, 6000 V voltage and a speed of 1,490 rpm not only must ensure the compressed oxygen and nitrogen supply to the mill, but also has to drive a lubricant pump. Due to these requirements, the motor had to be equipped with a second auxiliary shaft end. Menzel Elektromotoren were awarded the contract for this project by their longtime customer, because the family-owned company has successfully implemented numerous sophisticated solutions before and gathered extensive relevant experience in the process.



Illustration: Labours for two: custom-made motor with two shaft ends operates a compressor and oil pump in Spanish steel mill

In order to ensure the absolutely reliable interchangeability of the legacy unit and new system, the motor manufacturer dispatched two staff to Barcelona prior to construction to determine the exact operational and structural requirements on site. Based on that data, the replacement motor was then built

with the required dimensions, an identical terminal box system, the vibration monitoring system requested by the customer, and two shaft ends for the compressor and the oil pump. Furthermore, the Menzel engineers devised a custom-dimensioned frame to accommodate the additional pump. The new unit is now ready to be commissioned and will soon take up regular operations.

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About Menzel Elektromotoren

Based in Berlin, Menzel Elektromotoren GmbH has been manufacturing and distributing electric motors for more than 85 years. The medium-sized company specializes in the delivery of large electric motors, including special models, within the shortest possible time. The product range comprises high and low voltage motors, DC motors, transformers, and frequency inverters. Services include motor production and short-term adaptation of stocked motors to application-specific requirements. In order to ensure fast deliveries to the customer at all times, the company maintains a very extensive inventory including more than 20,000 motors with a maximum performance of up to 15,000 kW. Qualified engineering, experienced staff, and state-of-the-art production and testing facilities help Menzel provide excellent reliability. Menzel operates subsidiaries in the UK, France, Italy, and Sweden, and cooperates with numerous partners worldwide.

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