

Press Release

Motors for mine integrated directly into fan housing

Berlin – When a mining operation in Asia commissioned a new ventilation solution for their pit fans in June 2016, Menzel Elektromotoren from Berlin constructed and delivered two special motors within an extremely short reaction time. The two three-phase squirrel cage motors with 1,700 kW, 992 min⁻¹ and 6000 V required especially adapted housings to match the desired motor dimensions. Since the motors were to be incorporated directly in the tubular fan housing, the connecting cables had to be fed out of the housing.



Illustration: Two long-lasting, robust pit fans with special dimensions for direct installation into the fan housing left Berlin for Asia in June 2016.

The spatial limitations posed a challenge to the engineers responsible for the project. The fan wheel, for instance, which weighs in at more than a ton had to be installed directly on the shaft. Despite the fact that this results in high radial and axial loads on the motor bearings, Menzel was able to configure both motors so as to reliably ensure a calculated service life of more than 100,000 hours as requested by the customer. To this end, the motor manufacturer's engineers implemented an adequate special bearing design in cooperation with

the bearing manufacturer. The two pit motors are now ready to operate in the particularly demanding mining conditions.

Illustrations: grubenluefter Char.s: 1,178
File name: 201606044_pm_ventilator_en Date: 2016-06-29

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.

Contact: Menzel Elektromotoren GmbH

Mathis Menzel

Neues Ufer 19-25
10553 Berlin
Germany

Tel.: +49 30 / 34 99 22 - 0
Fax: +49 30 / 34 99 22 - 999
Email: info@menzel-elektromotoren.com
WWW: www.menzel-elektromotoren.com



gii die Presse-Agentur GmbH
Immanuelkirchstr. 12
10405 Berlin
Germany
Tel.: +49 30 / 53 89 65 - 0
Fax: +49 30 / 53 89 65 - 29
Email: info@gii.de
WWW: www.gii.de