

Press Release

Innomotics and OLKO achieve key certification for innovative mine winder braking system

- Innomotics and OLKO have developed a multi-channel-controlled mine winder braking system to offer highest safety for mine winder operations.
- COBRA 02 S mine winder braking system has been SIL 3 certified according to EN61508 and EN62061.
- The COBRA 02 S system can be applied to all types of mine winder machines.

Nuremberg, July 09, 2025 – Innomotics, a globally leading provider of electric motors and large drive systems, and OLKO-Maschinentechnik GmbH achieved SIL 3 certification for the COBRA 02 S braking system for mine winder installations.

The COBRA 02 S multi-channel-controlled safety braking system integrates seamlessly with the Innomotics winder controller, which is already SIL 3 certified, enhancing operational safety. This comprehensive braking system addresses both hydraulic and electrical control functionalities, enabling its application across all types of mine winder machines. This cutting-edge technology has achieved SIL 3 certification per IEC EN 61508 and IEC EN 62061, validated by TÜV Süd in Germany, ensuring highest safety for mine winder operations.

One of the standout features of the COBRA 02 S is its electro-hydraulic brake control system, which ensures constant deceleration under any conditions. Whether facing varying load levels, changing movement directions, or friction-related fluctuations during safety mode activation, the system guarantees a preset, steady deceleration to safely halt the winder.

To achieve the stringent SIL 3 certification, a significant number of fail-safe components were incorporated. The COBRA 02 S ensures precise, delay-regulated braking independent of the winder's operational state. Its multi-channel capability is

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tailored to each unique application, allowing for a controlled and consistent stop under all circumstances.

After many decades of working together in mine winder installations around the world, Innomotics and OLKO have developed the multi-channel-controlled braking system, intensifying their cooperation and partnership. Both companies are pioneers in developing innovative mine technologies

“As the demand for safety in mining operations continues to rise, OLKO and Innomotics are reinforcing their commitment to excellence and innovation in mine winder technology,” said Bernd Erdtmann, Senior Sales Manager of Innomotics.



Nils Janßen (Head of Global Sales for Mining and Cement at Innomotics, left) and Markus Beermann (CEO at OLKO-Maschinentechnik, right) are proud of the successful completion of the certification. (Picture: OLKO-Maschinentechnik GmbH)

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About Innomotics: Redefining reliable motion for a better tomorrow.

Innomotics GmbH is a globally leading provider of electric motors and large drive systems that combines deep technical expertise and leading innovation in electrical solutions across industries and regions. With its more than 150 years of experience in developing electric motors, the company is the backbone for reliable drive technology in industry and infrastructure worldwide. Innomotics is a thought leader in the areas of industrial efficiency, electrification, sustainability, and digitalization. The company is headquartered in Nuremberg (Germany) and employs around 15,000 people worldwide. Annual revenue exceeds 3 billion euros. With 17 production sites and a comprehensive sales and service network in 49 countries, Innomotics has a well-balanced global presence in a growing market.

About OLKO-Maschinentechnik GmbH

Ever since the company was founded in 1989 OLKO-Maschinentechnik GmbH has been one of the driving forces in the shaft construction and materials handling technology sector. As a full member company of the THYSSEN SCHACHTBAU group we are at home in international markets and supply innovations to the entire world from the cradle of mining. OLKO-Maschinentechnik GmbH stands for future-oriented system solutions with a high level of vertical integration and in-house developed, often patented components.

For more information, visit www.innomotics.com.

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