

Press Release

Czech locomotive manufacturer CZ LOKO orders 50 generators from Innomotics – Celebrating 25 year of cooperation

- Innomotics will supply 50 synchronous generators to CZ LOKO over the next three years
- Both companies have been working together for 25 years to strengthen transport on rail
- Two-system energy-saving locomotive “DualShunter 2000 AC/DC” in development

Drásov, December 18, 2024 – The largest Czech manufacturer of diesel-electric locomotives, CZ LOKO, ordered 50 generators from Innomotics, a globally leading provider of electric motors and large drive systems. The synchronous generators type 1FC2 will be supplied over the next three years and produced in the Innomotics plant in Drásov, South Moravia. CZ LOKO has already more than 1,300 Innomotics generators in service.

The first traction generator developed by Innomotics was put into operation by CZ LOKO in 1999, which means that the new order also marks the 25th anniversary of cooperation of the two Czech industry heavyweights. Over these 25 years, Innomotics supplied a wide variety of other drives to CZ LOKO. The original traction generators from Innomotics Drásov were gradually joined by asynchronous motors in railway design for locomotive auxiliary systems manufactured in the Mohelnice and Frenštát plants. Innomotics currently supplies generators for traction, auxiliary power supply, and heating with an output between 120 and 1,350 kVA for CZ LOKO locomotives, as well as electric motors for auxiliary drives with an output between 11 and 45 kW, for compressors and cooling.

“Our locomotives operate in more than 20 countries around the world, but they are also widely known in Czechia where we develop and manufacture them. The reason we have been working with Innomotics for so long and intensively is that the cooperation suits us perfectly and we trust each other completely. That is why we have now ordered 50 new Innomotics generators for our new locomotives, it’s our largest order in several years,” points out **Josef Bárta**, Chairman of the Board of

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Directors of CZ LOKO. He adds: "Innomotics has high-quality facilities, utilises extensive know-how of its experienced employees, and moreover, our manufacturing plants are located not far from each other. This cooperation has been so long and so intense that I dare say it goes beyond the normal business relations between two companies," says Josef Bárta.

"Our motors and generators are distinguished by the highest level of stability even in extreme ambient conditions. Other features include low maintenance costs as well as low vibration and noise levels," says **Libor Mezník**, director of Innomotics manufacturing plant in Drásov, adding, "We greatly appreciate our 25 years of cooperation with CZ LOKO and the new order for the symbolic two times 25 generators."

Joint development of an improved two-system locomotive

Both companies are currently preparing further projects for the Czech as well as foreign railways, such as the two-system energy-saving locomotive "DualShunter 2000 AC/DC" intended for medium-heavy shunting and main-line service.

"Its design enables taking full advantage of dependent traction to be exploited when pulling freight trains on electrified lines, while having a sufficiently powerful internal combustion engine for trouble-free operation on sidings and lines which are not electrified. This eliminates, for instance, the need to have two locomotives – electrical and diesel – or to operate a diesel locomotive on electric lines," explains **Jan Kutálek**, sales director of CZ LOKO.

For this project, an adaption of the generator is necessary – the heart of every locomotive. "Thanks to its own development centre, Innomotics can flexibly react to the technical requirements of the locomotive manufacturer and optimise the design in order to conform to mechanical, electrical, and other demanding operating conditions. This made it possible to increase the nominal power of the diesel generator set without having to change the overall external dimensions or increase the weight significantly," adds **Martin Pochyla**, Head of Sales Department of MVHV Innomotics.

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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 the synonym for infrastructure worldwide. Innomotics is a thought leader in the areas of industrial efficiency, electrification, sustainability, and digitalisation. The company is headquartered in Nuremberg (Germany) and employs around 15,000 people worldwide. Its 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.

For more information, visit www.innomotics.com.

In the **Czech Republic**, Innomotics is one of the most important industrial companies in its field. The company continues the 120-year tradition, and with almost 4 thousand employees, it ranks among the major Czech employers. It has a comprehensive portfolio of products, from low-voltage to high-voltage electric motors, motors with shaft height between 63 and 900 mm, geared motors, and generators. The company also offers development and innovative solutions tailored to the customer, including energy-saving motors with high efficiency. Manufacturing sites of Innomotics are among plants with the highest level of automation and digitalization in the Czech Republic.

For more information, visit www.innomotics.cz.

Czech joint-stock company **CZ LOKO** ranks among largest European manufacturers of diesel-electric locomotives and special rolling stock. The company has its own R&D department and provides complete service support. It manufactures, modernises, and repairs locomotives. CZ LOKO locomotives are operated in more than 20 countries, including Italy, Sweden, Poland, Ukraine, and Turkey. It currently has 680 employees who work in its plants in Jihlava, Česká Třebová, and Prague, as well as service centres in Lovosice, Ostrava, and Letohrad. www.czloko.cz