

Case story | VACON® 1000

# VACON® 1000 powers deep pumping at Los Gatos mine

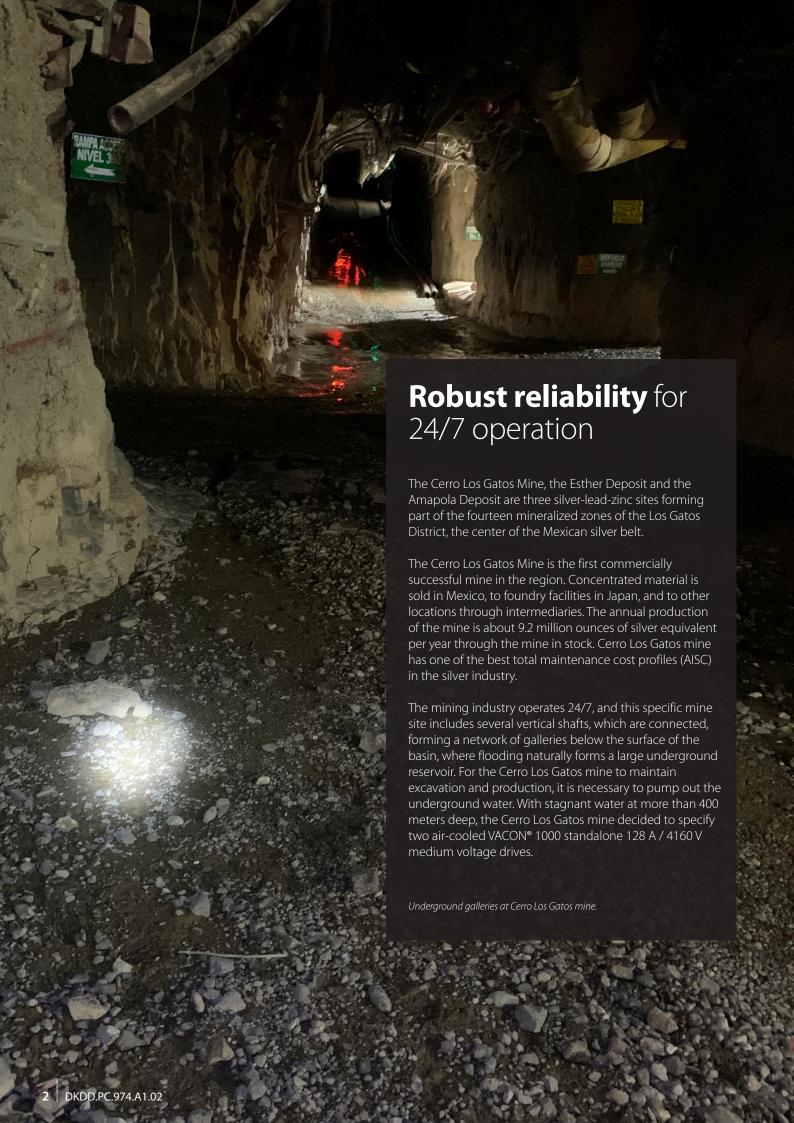
MEXICO: Faced with the challenge of pumping stagnant water from depths of more than 400 meters, the Cerro Los Gatos mine opted for medium-voltage variable speed pump control using the VACON® 1000 drive from Danfoss. Drives were delivered and installed in the record time of 14 weeks from factory acceptance test.

14 weeks

manufacturing time to quickly serve dewatering needs

**VAGON®** 

www.danfoss.com/drives





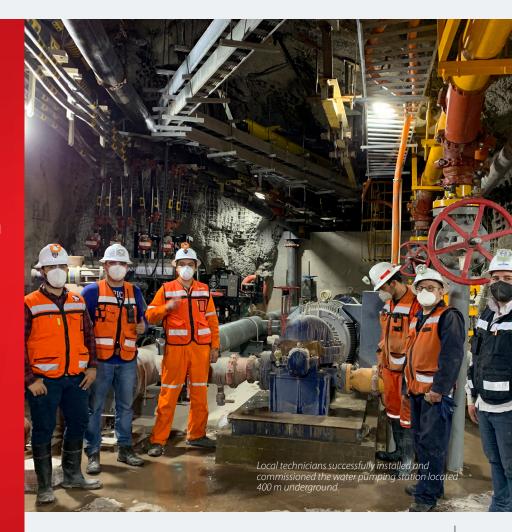
VACON® 1000 is a general-purpose drive suitable for a wide range of medium voltage applications. It is easy to integrate into the main control systems and adapts quickly to the specific needs of each situation. This MV drive offers high environmental resistance to operate under harsh conditions, with high temperature, dust and humidity inside an electrical room.

The VACON® 1000 drive complies with customer requirements such as compact footprint, low harmonic emission, high energy efficiency, and motor dU/dt requirements. Other relevant characteristics appreciated by the customer are the comprehensive connectivity options, simple installation requirements, and intuitive and safe operation. Availability of local technical support was also an important customer requirement.

## **Successfully** pumping water from 400 m depth

This new generation of drives was installed in Mexico, and the mine became one of the first in the country to implement a solution of this nature to deal with pumping water from great depth.

Installing an effective water pumping system became a multi-phase project. Firstly, the diagnosis was made following on-site visits, then evaluation and selection of solutions commenced. Finally, the solution was installed and commissioned. In each of the phases, Danfoss worked together with the solution integrator and business partner Autronic. Their combined talents formed a multidisciplinary technical and commercial team, which initiated a process of constant communication with users to analyze the various phases of the implementation of the solution.





### 14 weeks manufacturing time

Thanks to this collaborative approach, the manufacturing time was 14 weeks only. A record time for projects of this magnitude. One of the great contributions to achieving this goal was the knowledge and experience of the Mexican technicians. Thanks to their flexibility, availability, and teamwork with the end-users, it was possible to complete the project fast.

**Danfoss technology** was adopted immediately thanks to the fact that the technical doubts were resolved in their entirety: Working together with a multidisciplinary team of engineers, geologists, technicians, and operators specializing in mining was one of the key factors for Danfoss, as an OEM supplier cooperated with solution integrator Autronic throughout the process: first providing training to the client and then in the delivery, installation

and commissioning of the equipment earlier than predicted. Generally, these types of solutions are carried out by foreign personnel, so the implementation and service times are extensive. However, in this case, Danfoss offered immediate response, reducing delivery times due to the availability of local technicians in Mexico.

#### How fast can we help?

With focus on exceptional customer service, Danfoss completed in two days what other providers normally take 3 or 4 days to achieve. The team had a straightforward way of working, open communication, and total transparency with the customer. Complete alignment with high expectations made it possible to halve the installation supervision, commissioning, and start-up time required.

#### **About Autronic**

This Mexican automation company and solution provider has extensive experience in the mining sector. Autronic is a large company with more than 25 years in the national and international markets, offering great expertise and commitment.

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