



Large-scale project for supply water from the Kilavuzlu Dam to the waterworks in the city of Kahramanmaraş, Turkey

Impo is part of the Franklin Electric product family. This not only provides improved access to expertise and product diversity, but also expands the wealth of experience, as in this project.

Delivering a reliable water supply to support Kahramanmaraş's growth

To meet the growing drinking and utility water needs of the city of Kahramanmaraş, the Kahramanmaraş Metropolitan Municipality, *KASKİ*, in collaboration with the project contractor *SMY Sondaj Ltd. Şti.*, launched a large-scale initiative to establish a high-capacity water transmission system between the Kilavuzlu dam and the metropolitan municipality water works. The project involved the installation of a 12-kilometer-long pipeline with a 1,000-millimeter diameter, designed to provide the city with an uninterrupted and reliable water supply.

This project was carried out combining the expertise of *KASKİ*, *SMY Sondaj*, and Impo / Franklin Electric experts, who supported the customer from the initial design of the right pumping system all the way through to on-site commissioning.



The water is distributed through a 12 km long pipeline.

Navigating tough terrain and high-demand requirements

The project faced several challenges, including difficult terrain conditions along the 12,000-meter route, the need to select pumps capable of ensuring continuous high-capacity water transmission, and the necessity to balance energy efficiency with long-term operational costs. These factors required a solution that could combine performance, reliability, and sustainability over time.

Engineering excellence: high-capacity pumps for reliable water flow

To address these challenges, a robust and durable pumping system was implemented, featuring twenty-two Impo Motor Pompa SS 894/21 pumps driven by 8-inch 150 HP motors. Each pump delivers 25 liters per second, ensuring a steady and dependable water flow to the city's water works. Full support was provided, from engineering design to on-site commissioning, ensuring the system matched the project's technical requirements and long-term performance expectations.

The use of modern drilling techniques and advanced engineering practices further enhanced the safety, stability, and longevity of the entire pipeline system. This comprehensive solution was specifically designed to meet the project's technical demands while maintaining operational efficiency and durability in the field.

Technology that drives results

The İmpo system was selected for its robust engineering, high efficiency, low maintenance, and adaptability to challenging environments.

İmpo 8" rewindable submersible motor

- Range: 30 - 150 HP
- 8" NEMA shaft end and flange
- Maintenance free, water lubricated radial and axial bearings
- Pressure balancing between inner and outer side with rubber diaphragm / pressure valve
- Suitable for operation at different speeds via frequency converter (above 30 Hz)

İmpo 8" SS 894/21 submersible pump

- Operating range at 50 Hz: Q = 64 m³/h - 120 m³/h
- NEMA Standard
- Impeller type: Semi Axial
- Shaft diameter : 25 mm

Learn more about the system here: impo.com.tr

impo



Franklin Electric and İmpo as reliable partners in water management

In collaboration with *SMY Sondaj Ltd. Şti.*, a sustainable and efficient water transport system was successfully delivered to *KASKİ*, ensuring a continuous and reliable water supply for the city of Kahramanmaraş. Today, the system not only offers high delivery capacity, but also ensures energy-efficient and long-lasting operation, contributing to reduced maintenance and lifecycle costs.

The project was completed and commissioned within the planned timeline, strengthening confidence in the quality and reliability of the installed infrastructure and in the strength of the cooperation between all partners involved.

This project, which was continuously supported by Franklin Electric experts from system design to commissioning, reflects Franklin Electric's philosophy and commitment to being a reliable partner to its customers. In addition, the product solutions add value to the municipal infrastructure and help local authorities ensure a stable and secure water supply for their communities.



The partners involved work closely together on the implementation of the project.



22 stainless steel submersible pumps and motors from İmpo pump the water.

For further information please visit our website franklinwater.eu.