

GF Piping Systems



ELGEF Plus

Local support for the renewal of water transportation lines

SH POWER in Schaffhausen, Switzerland



**Resource savings and safe connections
for water transport with ELGEF Plus and
MULTI/JOINT® 3000 Plus.**

Prevention of pipe bursts and water losses



Close to our headquarters in Schaffhausen, SH POWER's installation team is working on a project to renew water transport pipelines. Shortly before the start of construction, the team noticed that their existing butt fusion machine was not correctly equipped for the project with the protective-jacketed pipe. Due to a tight schedule, a quick solution had to be identified. The Swiss team of GF Piping Systems was able to provide a rental machine (Top 2.0 630) within a very short time, allowing the project to start without any time delay.

Project background

SH POWER is an energy and infrastructure company supplying the Schaffhausen region, which offers tailor-made supply solutions to its customers. In doing so, they focus on reducing water losses in their pipeline networks. To prevent leaks and pipe bursts, the company is renewing its approx. 900m long section of cast iron with polyethylene (PE) pipes (500mm S5/PN16 with protective jacket). For this project, products and solutions from GF Piping Systems were selected.

Technical solution selected

The existing cast iron line (partly running under the forest cemetery) belongs to a multi-year project to renew and relocate the water transport line. A challenge for planners and installers was to make sure that in the ecologically sensitive environment trees and roots were not damaged. The chosen PE system presents a significant advantage over the cast iron pipeline as it required significantly smaller trench excavation during installation. Oliver Garcia, Chief Installer for Gas and Water Networks at SH POWER, emphasized that the PE solution of GF Piping Systems was selected because compared to other materials, it has a better environmental footprint and the material cost is 30% lower. With only two installers and the use of butt fusion, electrofusion, and repair solutions from GF Piping Systems secure connections for life were created.

Improvements achieved

The handling of big-dimensioned products is generally a challenging task. User-friendly products are crucial for working in a time- and resource-efficient manner. For the first time, the SH POWER team tried out the plastic pipe cutting tool PECut 1200. The experienced Chief Installer, Oliver Garcia, reports: «The advantage of the tool is that it creates extremely clean-cut surfaces». This minimizes the need for post-processing and reduces preparation time.

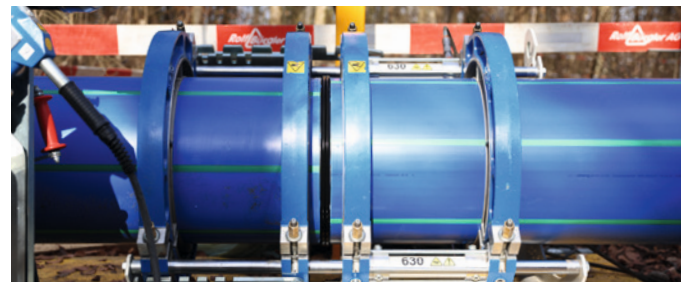
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Easy installation of the large-diameter ELGEF Plus Coupler in a narrow trench.



Reliable welding with the Butt Fusion Machine Top 2.0 630 for a long-lasting connection.

Customer benefits

- **Customer proximity and flexibility with local support prevent unnecessary project delays and costs**
- **The ELGEF Plus product range offers customized solutions in combination with electrofusion equipment for durable and high-quality connections**
- **Reduction of water losses through reliable, corrosion-free connections with ELGEF Plus and MULTI/JOINT® 3000 Plus**

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