



FLEXWELL-FHK Project Chemnitz, 2025

BRUGG
Pipes
Pioneers in Infrastructure



Project

Route C in Chemnitz comprises several individual projects by Inetz Chemnitz, in which various pipe systems from BRUGG Pipes are being used, and represents an important part of the city's district heating supply. The total construction period will run from 2024 to 2026 and is divided into six construction phases.

In October 2024, a challenging pipe relining project was carried out under the busy Federal Highway 95 as part of this route. For the customer Inetz Chemnitz, two sections, each 105 meters long, were installed using FLEXWELL-FHK district heating cables with dimensions of 200/310. Crossing the B95 with the FLEXWELL-FHK system enabled quick and trenchless implementation in an area sensitive to traffic.

At the same time, a total of around 1,000 meters of PREMANT rigid plastic casing pipes DN300/500 and 400 meters of PREMANT DN150/280 were laid. Parts of the DN300/500 route were installed in above-ground protective pipe casings. Ball valves in sizes DN300 and DN150 and KMR fixed points with specially manufactured round anchor plates for welding were used to ensure safe network integration.

The heat pipeline was supplemented by a base pipeline with 510 meters of rigid SPIRAMANT spiral-welded pipe DN300/450, which was specially designed for a cooling pipe with an AIMg3 jacket.

The overall project thus combines various system solutions and, through the combination of FLEXWELL-FHK, PREMANT, and SPIRAMANT, contributes to the sustainable and future-proof optimization of the urban heating and cooling network.

Execution

The FLEXWELL-FHK pipes were laid in strict accordance with the schedule. The use of a drum truck, which was in operation during the day, enabled the pipes to be pulled in precisely and quickly.

Thanks to careful planning by the engineering firm GEF Chemnitz and smooth cooperation with the pipeline construction company Gunter Hüttner, the project was completed successfully.

The particular challenge of pipe relining under a busy federal highway was mastered through the use of modern technologies and the experienced team. In addition to the actual installation, the FHK system offers an optimal solution for heat supply in Chemnitz thanks to its high efficiency and durability.



Potential for future projects

PREMANT provided a highly efficient and durable solution for the main and distribution lines in Chemnitz.

The DN300/500 and DN150/280 dimensions used ensure a reliable heat supply. SPIRAMANT offered the ideal solution for the parallel base route thanks to its appropriately selected specifications and compatibility with the PREMANT system.

In combination with the AIMg3 jacket, it also proved to be a particularly robust system for the installed cooling pipe.

The project impressively demonstrates the potential of combining district heating cables, plastic-coated pipes, and relining technologies for a sustainable and efficient energy infrastructure. The experience gained from this project provides a valuable basis for future network optimizations in Chemnitz and beyond.

Thanks to excellent planning, high-quality products, and successful implementation, the project sets new standards in the field of pipe relining and in the optimization of heating and cooling networks.

