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Double waste water pipeline below the underground line in Berlin's Mitte district

The new erection of a waste water pumping station in the Berlin Mitte district necessitated the construction of two DN 1000 pressurised waste water pipelines. The two pipelines cross the Chausseestrasse, with its tram line, heavy vehicle traffic, and the underground line below. Because of this situation, the "Berliner Wasser Betriebe" (Berlin Water Authority) decided to drive a reinforced concrete tunnel (2,800 mm) at a depth of 16 m. Following construction of the starting and target shafts, equipped with special bracings and buoyancy control fittings, the tunnel was driven with high precision and without vibration. The guide rails for the sliding clamps were cast in a concrete base. The DN 1000 drainage pipes, featuring a K9 wall thickness and BLS® thrust-lock system, were mounted on the clamps and pulled in as a double section. In view of the restricted amount of space available, the easy installation of the pipe connections and fittings using BLS® segments proved particularly helpful and advantageous for the complete installation process. Training provided by the staff of the Buderus Application Technology department quickly turned the installation into a routine task. The section was pressure-tested at 21 bar before damming the jacket pipe.

