



**HAMMANN**  
Comprex® cleaning  
Municipal water networks

Reference project

**Neubrandenburger  
Stadtwerke GmbH**



Figure 1: Comprex® unit on site

## Periodical systematic cleaning of municipal water supply network

### Task

- cleaning the water supply network with the patented Comprex®-technique
- mobilisation and removal of residuals from the pipes
- removal of turbidities and incrustations
- ensure operating security
- annual employment involving 8 - 14 night shifts

### Specifications

- nominal width DN 100 bis DN 400
- pipe material steel, PE, AC, ductile iron
- total length cleaned annually: approx. 10 km
- total length of cleaned pipes between 2012 and 2018: approx. 70 km

### Cleaning using the Comprex® procedure

- Comprex® unit supplies specific impulses of compressed air and water for a fully mechanical cleaning (figure 1)
- pipes are cleaned in sections at different injection locations along the pipe
- injection and discharge using hydrants (figure 2)
- controlling and dosing of compressed air impulses using Comprex® unit (figure 3)
- inspection glasses at discharge / outlet location display the progress of cleaning (figure 4)
- 2 technicians, 8 days on site

### Result of Comprex® cleaning

- effective mobilisation and removal of residues for the most parts (predominantly iron and manganese sludge)
- cleared turbidities
- improved operating efficiency
- improved water supply security
- decreased pressure drop
- enhanced hydraulics



Figure 2: Injection location  
(symbolic image)



Figure 3: Impulse control system



Figure 4: Inspection glass at  
discharge location

RSP-10E\_Stand: 08-2018