### **BONEX-SPIRAL Pipe winding procedure**

#### The challenge

Pipelines are damaged due to aging and Surveying the sewer pipe with up-to-date due to different loads generated as a technology and recording the condition of changes in the traffic, the pipeline. of construction and technology.

The water and sewage seeping because method. of bad isolating, lead to the deterioration of the soil quality and in other cases the infiltrating water overloaded sewage treatment plants.



#### The solution

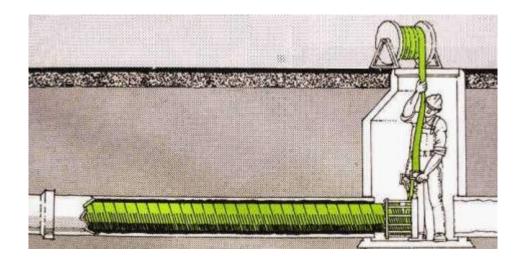
Reconstruction by trenchless rebuilding



## The winding machine already assembled and ready to work

During the process a single-purpose machine winds a pipe using extruded strips. equipment is lowered into the cleaning shaft and than the winding begins. The pipe will be moved forward spirally in the old pipe. After the lining of one section the attachments will be prepared and the gaps injected. In this way the reconstruction of the sewer is completed and in spite of the slightly smaller diameter the water supply capacity will not be reduced because the inner surface of the new tube is smooth. The stiffness of the pipe is similar to that of a new PVC tube. It is a great advantage that in principle this procedure can be performed without exposing the pipe, because the tubewinding machine can be lowered through the cleaning shaft.





# Trenchless construction of pipes:



Mechanical matching of strip edges, fixing with comb and rubber seals ensuring water tightness:

