

## Pipe Renewal ø 315 mm at the Atlantic

City:	St. Malo de Guersac nearby St. Nazaire/France
Contractor:	France Reseaux-DLE
Length:	totally 200 m, in 2 sections each 104 m and 96 m
Pipe to be pulled in:	PEHD pipe OD 315 mm, wall thickness s = 18.7 mm
Old pipe:	asbestos cement ID 250 mm
Machine:	TERRA-HYDROCRACK
Underground:	soft peat (turf)
Man holes:	5 man holes had to be crossed



Picture left:  
The hydraulic bursting system TERRA-HYDROCRACK is lifted into the starting pit with a Manitou.



Picture left:  
The PE pipe OD 315 mm, 120 m long, the mini bursting sleeve OD 368 mm and the bursting rod 12" with 3 blades are prepared for operation.

Picture below:  
The pipe pulling starts. The pullback forces are about 250 kN (25 tons) during the complete distance.





Picture left:  
During the quick and easy assembly of the rods the operator may sit in his comfortable operator's seat.

Picture above:  
A man hole is crossed.



Picture left:  
The PE pipe has arrived. The main cylinder is slid to the rear of the TERRA-HYDROCRACK. Now the bursting rod, the expander cone and the PE pipe may be pulled into the HYDROCRACK easily.

Picture below:  
The expander cone (mini bursting sleeve) with the PE pipe are pushed into the TERRA-HYDROCRACK. The pipe renewal project is finished

