

Microtunneling for a **water collector** in the urban areas around **Paris**



In the densely populated city of Gagny, just outside Paris, a large water collector was built by the use of microtunneling. This basin will serve as a rain collector, avoiding floodings in the event of heavy and long rain periods.

Remarkable for this project is the tight curve radius in combination with a common pipe length of 3.00 m. Thanks to the largest model of the Hydraulic Joint (JC260), no significant sacrifice had to be made on pipe lengths which was beneficial for the efficiency of the entire project. Furthermore, precise monitoring of the joint openings in MSS makes it possible to realize this kind of curved microtunneling in an effective and reliable way.

Not to be underestimated was the extremely compact construction site in this urban area, which involved an extra complex logistic-exercise that, partly due to the real-time status of the construction site in the MSS-cloud service, was executed even more organized.



AT A GLANCE

Project name	Bassin du rue Saint Baudile
Project location	Gagny, Paris, France
Time of completion	2023
Specialties	Large diameter pipes, tight curve radius, urban area
Total length	277 m / 909 ft.
Pipe ID	2200 mm / 86 in.
Pipe OD	2700 mm / 106 in.
Alignment	Double-Curve
Min. curve radius	190 m / 623 ft.
Pipe material	Reinforced Concrete
Pipe length	3.00 m / 9.84 ft.
Geology & groundwater	Alluvium, Masses and marls of Gypsum. 0.8 – 0.95 Bar
Hydraulic Joint	JC260, single loop, admissible jacking force in curve: 10'700 kN
Guidance system	Gyro
TBM	Herrenknecht AVND2000AB
Owner	Communes de Gagny et Neuilly-sur-Marne
Designer	Seine-Saint-Denis Direction de L'eau et de l'assainissement Service études et Travaux
Contractor	Eiffage / Epping
Pipe Manufacturer	Berding

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