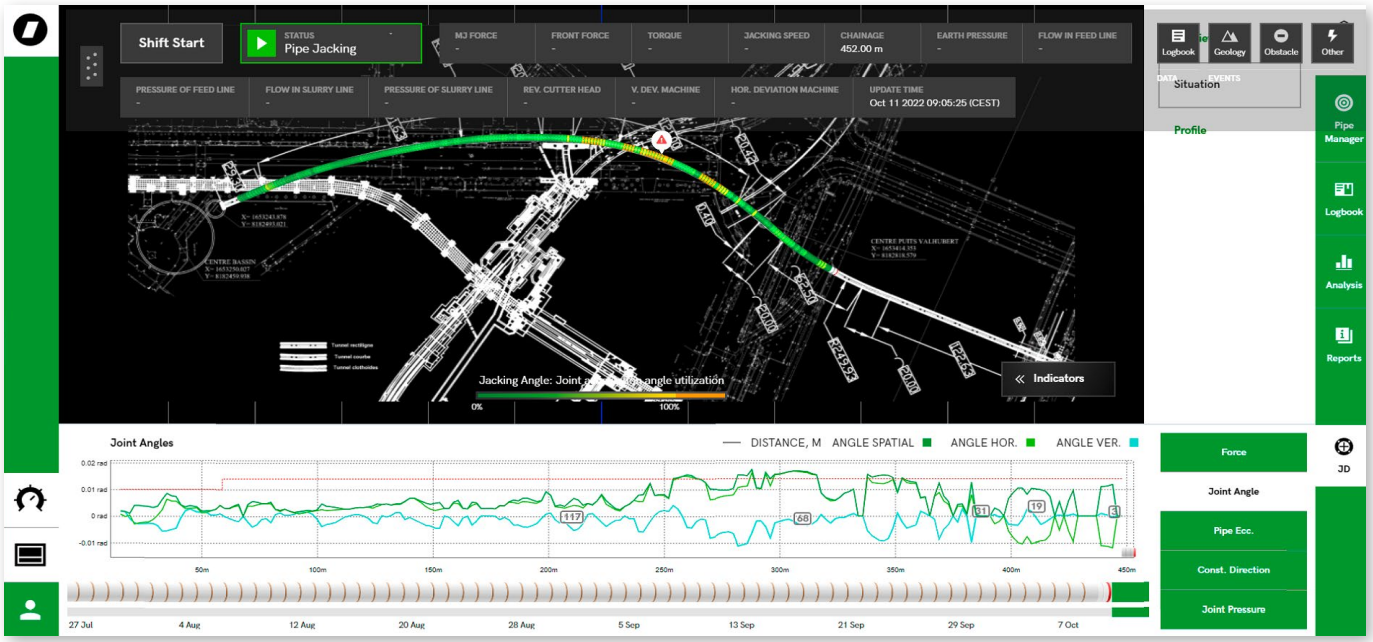
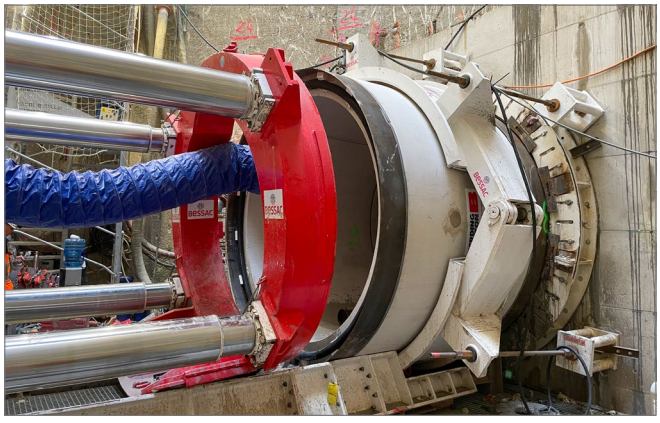
Microtunneling underneath the Seine river in Paris in preparation of the **2024 Olympics**



In preparation of the 2024 Summer Olympics, work began in Paris on a vast programme to make the Seine more swimmable. As part of this, the City of Paris planned the construction of a storage-treatment-restoration basin at Austerlitz and several collectors on the banks of the Seine, an exceptional project of unprecedented size in a city as dense and constrained as Paris. The interceptor, constructed by the trenchless microtunneling method, plays a key role in this by carrying untreated water to the Austerlitz basin.

The Microtunneling Support System (MSS) in combination with the Hydraulic Joint allowed the contractor to monitor and counter several challenging aspects such as the large pipe joint articulation angles resulting from the tight S-curve radii. This was crucial considering the external ground water pressure of up to 3 bar.



AT A GLANCE

Project name	Stockage Austerlitz
Project location	Paris, France
Time of completion	2022
Time of completion	2016–2017
Specialties	Large diameter pipes, tight curve radii, large overburden, high ground water pressure
Total length	608 m / 1995 ft.
Pipe ID	2500 mm / 98.5 in.
Pipe OD	3000 mm / 118 in.
Alignment	S-Curve
Min. curve radius	200 m / 656 ft.
Pipe material	Reinforced Concrete
Pipe length	2 m / 6.56 ft.
Geology & groundwater	Loam (Silty Sand), Limestone, Sandy Clay
Hydraulic Joint	JC260, single loop, admissible jacking force in curve: 14'000 kN
Guidance system	Gyro
TBM	Herrenknecht AVND2500
Owner	Ville de Paris
Designer	Prolog Ingénierie / Artelia
Contractor	Bessac / SADE

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monitoring microtunneling