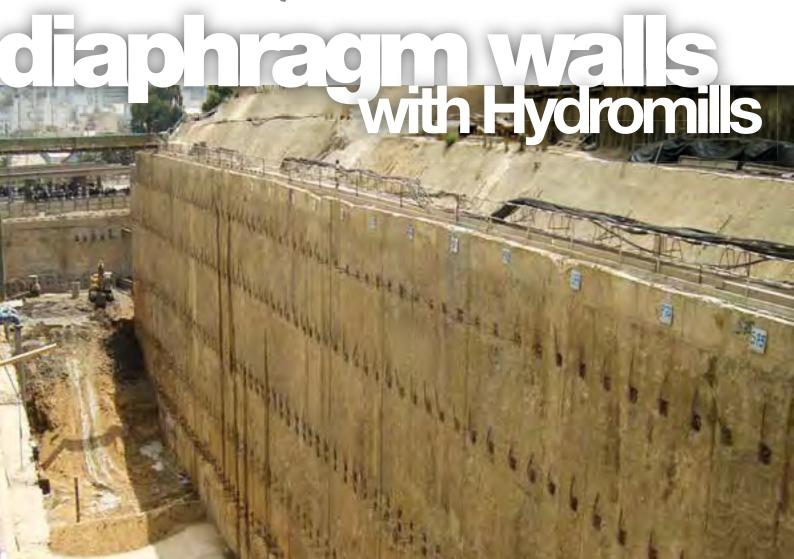


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Diaphragm walls are rectangular-section concrete wall cast in situ, built in a deep trench excavation with a complete removal of ground.

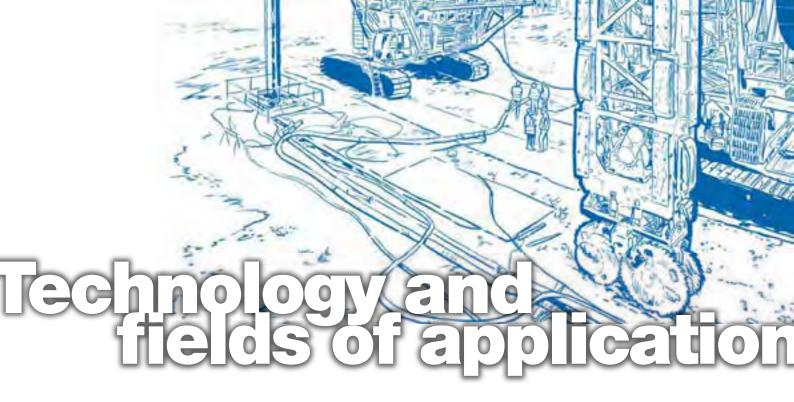
DW are typically constructed in **reinforced** concrete to provide the required structural capacity.

DW may also be used as a **cutoff wall** to avoid the seepage of water.

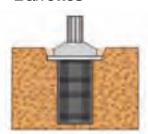
Digs up to 120 m and even more

Suitable for all soils and rocks

Verticality error less than 0,2 %



Foundation elements Barrettes

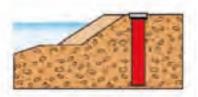


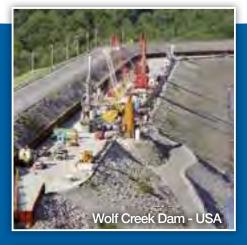
Reinforced DW Permanent foundation walls



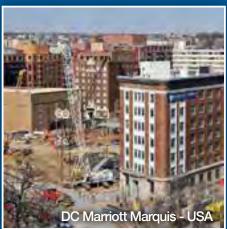
Retention system in open excavations and shafts

Underground waterproofing walls



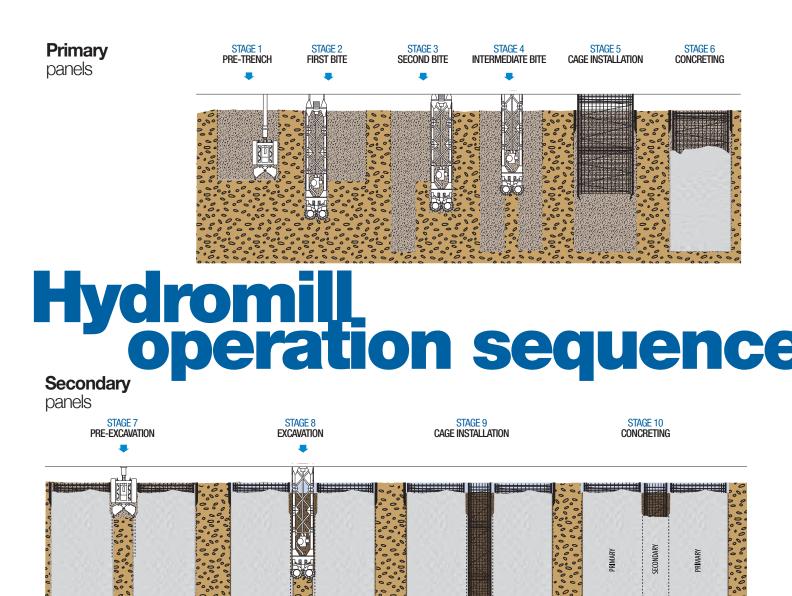


DW are suitable for most subsoils and can be used in a wide range of applications: deep basements, car parks and **underground stations** or ventilation shaft, dams sealing, open cut and cut & cover rail tunnels, cut-off walls for contaminated areas etc..









The hydromill system consists of three main pieces of equipment: the milling unit, the carrier supporting it and the mud processing plant to treat the mud extracted from the excavation.

The milling unit is made up of a steel frame onto which two independent counter-rotating cutting motors are assembled.

Auxiliary cranes with Grab

job site lay-out

Cutting wheels with different torques and dimensions can be used to better suit the geometrical requirements.

Mud treatment system
Operator + Technician

Crane with Hydromill Operator + Technician

Bentonite preparation plant

Auxiliary crane

Site Supervisor



SH-30 700 -1200 mm	SH-35 new 650 -1500 mm	SH-40 800 -1800 mm	
90 -130 kNm	90 -130 kNm	90 -130 kNm	



2016 SM117- Hose-chain with internal ring-chain.

The shape of the internal ring-chain allows the flexibility of the chains and prevents the rotation / misalignment of the spacers.



2017 SM120 - Trench-profiler and I.M.U. for deep excavation.

The profile measuring apparatus when lowered into the trench, following the profile of the walls, is able to calculate the 3D shape of the excavation.



27

2011 Double winches and one rope motion.

A single rope that winds/unwinds on two winches to obtain a much finer adjustment of the speed of the cutter and floating in the trench.

CONTROLS DMS suite for hydromills

- Improved digging efficiency with controlled accuracy
- Drilling assistance systems for operator support
- Job planning and progress tracking in real time
- Reporting, data analytics and quality assessment
- Condition monitoring and maintenance management software
- Worldwide remote assistance







lydromills in a ci Tori

297 working days Excavation time **70%**

Instanbul Turkey Galataport Project

2012 October World Record -250 m

Gualdo Italy Super Deep Cut-Off **DW dimension**

Clay, marls,



sandstone and gypsum



STORE CORD ACHIELE

TREVI

rechnology for the

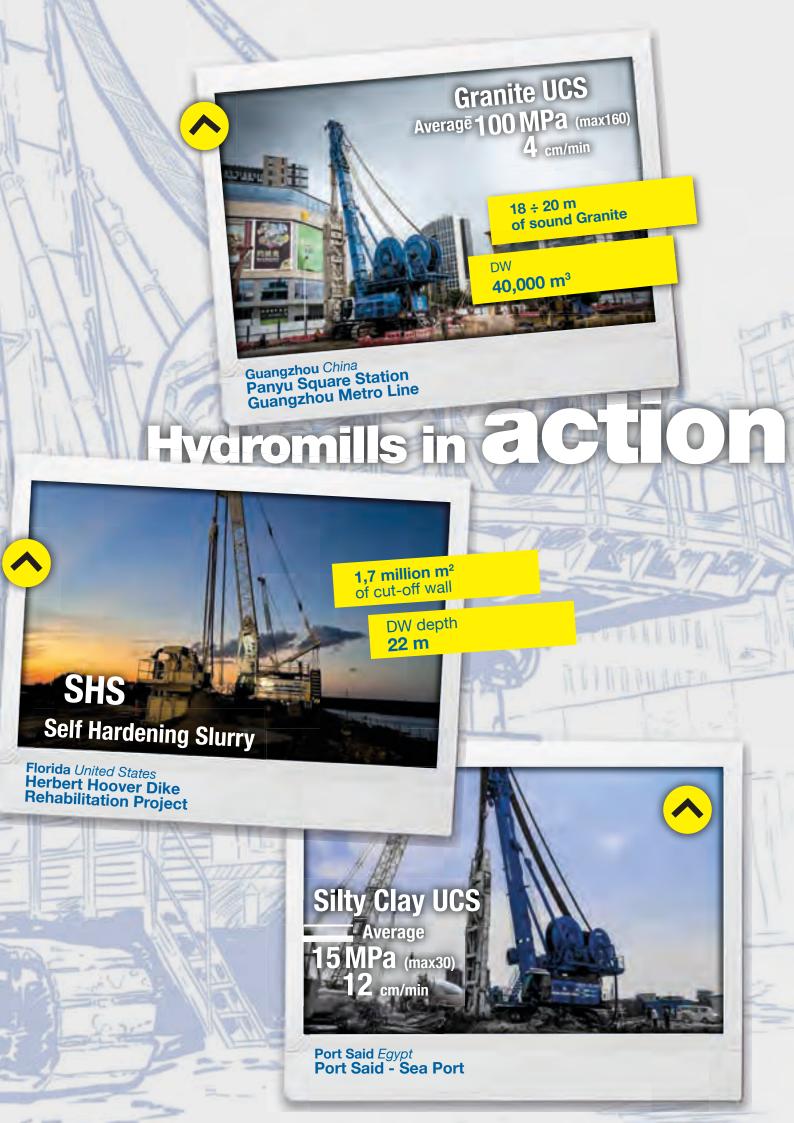
Hyde

30 m of Gypsum followed by clays with layers of limestone

> DW depth 62 m

DW dimension 1500 x 2800 mm

> Paris France Grand Paris Express (Chelles)



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