

Project

Túnel Emisor Oriente will be an underground wastewater treatment tunnel being built in Mexico City. The 62 km long tunnel is designed to canalize raw sewage and wastewater away from Mexico Valley. It will guarantee the deep drainage of 150 cubic meters of water per second and will support the existing Emisor Central drainage tunnel in the event of flooding on Mexico City.

Construction of the Túnel Emisor Oriente commenced in 2008 for completion expected in 2019.

The tunnel will have a diameter of 8,7 meters at excavation and a diameter of 7 meters at the operational layout. The excavation is undertaken using TBMs that will carry out a pre-lining with concrete reinforced segmental rings. The permanent lining is performed by a cast in place equipment.

Since 2014, Euroform has been awarded the supply of the 3 formworks and relevant accessories for the permanent lining of the tunnel for the different lots of the Túnel Emisor Oriente project.

Tunnel lining is carried out in continuous in successive weekly steps according to the site needs.

Each formwork equipment is composed of:

- 1 Formwork (60 m long).
- 1 Carrier.
- 1 Concrete Distribution Trolley.
- 2 Service Trolleys.
- 4 Auxiliary rails.

The formwork is mainly divided into 8 sectors 7,5 m long, mutually connected one each other. Each sector is composed of a main shutter on the top of the tunnel section and a invert shutter on the bottom.

The carrier performs the dismantling of the back sector of the formwork and its re-mantling on the lead side. Carrier transfers forward the dismantled formwork moving on the rails installed on the invert shutters and the auxiliary rails. The transferring is carried out passing under the formwork still in set-up configuration.

The concrete distribution trolley takes the casting ahead the formwork or behind it so as to fulfil the work needs.

The service trolleys carry out the moving of the auxiliary rails during the dismantling and the re-mantling steps and provide service operations for the casting to perform on the ends of the formwork.

CLIENT

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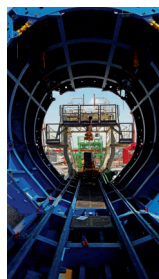
MAIN FEATURES

Formwork type:	Full-round Shutter
Casting length:	60,0 m
Inner diameter of tunnel:	7 m
Volume of concrete:	9 m ³ /m
Intended pouring:	approx. 45 m/day
Total concrete pouring:	approx. 400 m ³ /day

Formwork and Carrier - Site Assembling



Full equipment - Site Assembling



Service trolleys - Site Assembling

