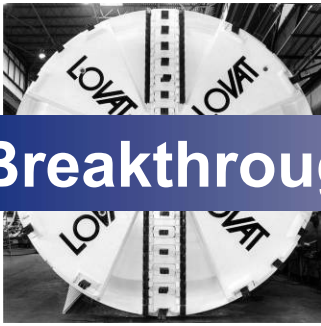


Metro de Sevilla, Spain - Breakthrough



CONGRATULATIONS !

The LOVAT RME238SE Series 21300 TBM, owned by the Dragados / Sacyr / Cavosa Joint Venture, has broken through on the first of two tunnel drives for the Metro de Sevilla, Line 1 Tunnel Project in Seville, Spain.

The 6.1 meter diameter Mixed Face, Earth Pressure Balance TBM attained daily production rates of up to 29.4 meters excavated while boring the 2,334 meter long tunnel. Best weekly and monthly production rates achieved were 133 meters and 333 meters, respectively.

Geological conditions encountered consisted primarily of gravel, including sandy gravel, and blue marls. Other ground types along the alignment included silty sands and clays. The entire tunnelled alignment is located under the groundwater table, with maximum groundwater height above the tunnel invert at 15 meters.

The TBM will now be reassembled and retooled for launch to commence excavation on the second tunnel drive.