



## RAILWAYS

# ATOCHA-RECOLETOS -CHAMARTÍN TUNNEL

**LOCATION** ▶ Madrid (Spain)

**CUSTOMER** ▶ UTE Mediodía Recoletos (Vías y Construcciones-Azvi)

**PROJECT SCOPE** ▶

Replacement of all existing flexible catenary for electrification with rigid catenary (double-track underground line). This is its first full rehabilitation since it was opened in 1967 (it is the most used section of the Spanish railway network).

**AMOUNT** ▶ EUR 4.6 million

**START DATE** ▶ April 2019

**FINISH DATE** ▶ November 2019

**CHARACTERISTICS:**

- ▶ 7.287 km in length, with a 3 KV DC electrical system
- ▶ Electrification of sidings at the Recoletos and Nuevos Ministerios stations
- ▶ Upgrading the principal stations, Chamartín and Atocha, by transitioning from rigid to flexible catenary
- ▶ New cutting equipment using motorised and remote controlled switches
- ▶ New section isolators and reinforcement and supply feeders for the rigid catenary



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