

Railway tunnels

Milan-Genoa High Speed railway line

27 km base tunnel: 2 single track tunnel configuration with 1 underground safe area (about 35x2 km of underground tunnel in total).

Works started in 2013.

Genoa railway junction upgrading

The work concerns:

- A double track tunnel (2.8 km in length, 13 m in diameter)
- 2 single track tunnel (2 x 1.4 km in length, 8 m in diameter).

Excavation works are in progress.

High Speed Milan-Naples Railway line: Florence junction underground pass

The works include a 5km EPB bored twin tunnel with an underground station. The works are foreseen to restart in 2015.

Brenner Base tunnel

55 km base tunnel between Austria and Italy: the works include the construction of two single track tunnel (9 m dia.) with underground safe area every 20km and a central exploratory/service tunnel (6 m dia.). Excavation works are in progress (exploitation 2026).

Torino-Lione railway line - Mont d'Ambin base tunnel

57 km base tunnel between France and Italy: the works include the construction of two single track tunnel with underground safe area every 20km. Exploratory tunnel (Maddalena Tunnel) undergoing Italy side.

Undergrounds

Naples Underground, Line 1, Garibaldi-Capodichino extension)

Line twin tunnel of 6.7 m in diameter (excavation by EPB TBM and cut and cover method).

Naples underground, Line 6 (Mergellina-Municipio extension)

The work concerns:

- A single tube tunnel of about 3,400 m to be excavated via an EPB shield of 8.30 m in diameter;
- 4 stations.

Excavation works started

Naples underground, Line 6 (Campegna - Porta Del Parco extension)

The work concerns:

- a single tube tunnel of about 3,800 m to be excavated via an EPB shield of 8.30 m in diameter;
- 3 stations.

Excavation works is going to start.

Milan Underground, Line 4 Linate Airport-S.Cristoforo)

The work concerns:

- a running tunnel of about 11,70 km in length, to be bored by using two EPB shield of 6.36 m in diameter;
- a running tunnel of about 3,70 km in length, to be bored by using an EPB shield of 9.15 m in diameter;
- 21 underground stations.

Excavation works started between Linate and Forlanini.

Milan underground, Line 5 (Garibaldi-San Siro/Harar section)

The work progress of the line twin tunnel (6,755 m in length and 6.8 m dia.)and of 10 stations is 50 %. The line twin tunnel is over. Excavation Works of the stations are at 90%.

Rome underground, Line B (Rebibbia - Casal Monastero extension)

Line twin tunnel of 6.7 m in diameter, approx. 3 km in length, and two underground station. Excavation works are going to start.

Rome underground, Line C (S. Giovanni-Montecompatri/Pantano section)

Excavation works of line tunnels (18.5 Km in length and 6.75 m diameter) are over. Excavation works of 12 underground stations are in progress.

Rome underground, Line C (Fori Imperiali - S. Giovanni section)

Excavation works of 2 underground stations and line tunnels (3 Km of twin tunnels, 6.75 m dia.) are going to start.

Road tunnels

Pedemontana Lombarda Motorway, Dalmine-Como, Gaggiolo pass connection

Two tunnels (Grandate and Morazzone, 2,450x2 Km total length, 16 m dia. Works are 60 %.

Modernisation of Motorway A1 Milan-Rome-Naples, Valico by-pass

Four twin tunnels (Val di Sambro, Grizzana, Quercia, Sparvo) (each tube about 180 m² cross-section. Excavation of Grizzana and Quercia tunnels is over. Excavation of Val di Sambro tunnel is 65%. Excavation of the Sparvo tunnel (2.5x2 km in length, 15.55 m in diameter), done by using an EPB-TBM (the world's largest TBM) is 70%.

Salerno-Reggio Calabria motorway

6° macro lot tunnelling works are in progress (400x2 m remaining out of 5000x2 m).

Quadrilatero (Umbria-Marche roadworks), 10 tunnels

Tunnelling works are over.

A14 motorway, Widening of 5 existing tunnels from two to three lanes + the hard shoulder

Works are in progress.

Frejus safety tunnel

The works for the excavation of a tube about 8 m in diameter and 12.87 km in length, are in progress.

New Colle di Tenda road tunnel

The project, which provides for the widening of the existing tube and the construction of a new 3,200 m long tube has been approved and financed by CIPE.

Final design is in progress.

S.S. 212 “della Val Fortòre” and ex s.s.369 “Appulo Fortorina”

Work include excavation of no. 4 tunnels, 15.20 m dia., and 2,700 m. total length). Excavation works of Cerzone and Fuciello tunnels are over. Excavation works of San Pietro and Monte Leone tunnels (approx. 1.2 km of total length) are over.

S.S. 106 Jonica (Sibari - Roseto Capo Spulico)

Two twin tunnel; total lenght about 5x2 km.

Final design in approving.