

Deeply rooted in the Italian railway tradition, Alstom in Italy has been manufacturing trains for **160 years**, signalling equipment for **90 years** and traction systems for **60 years**. Today, with **10 sites** throughout Italy and more than **3500 employees**, Alstom is a strong local employer recognised as one of the leaders on the Italian market. Alstom in Italy has two global competence centres: one in high-speed trains **Avelia Pendolino** and in regional single-decker trains Coradia Stream; and one in **railway signalling equipment and systems**. Alstom has made considerable investments in its industrial base in Italy. Alstom's site in **Savigliano (CN)** is an example of **Factory 4.0**, with a cutting-edge 3D virtual reality room, enabling our engineers to design trains for easier maintainability.



ALSTOM IN ITALY IN FIGURES

>3500 Employees

10 Main sites

>35 Depots

2 Global competence centres

SAVIGLIANO

Global competence centre for regional trains (more than 600 trains sold) and Avelia Pendolino high-speed trains (more than 500 trains sold worldwide)

SESTO SAN GIOVANNI

Maintenance, repair and manufacturing centre for subsystems and components of trains, tramways and metros. Maintenance engineering and remote control room for all the fleets of Alstom in Italy

LECCO

Development and manufacturing of railway components and power transmission for railway, metros and tramways

BOLOGNA

Global competence centre for signalling, computerised interlocking and traffic supervision systems

VADO LIGURE

Manufacturing, major overhauling and service for rolling stock, locomotives and subsystems

FIRENZE

Global competence centre for electromechanical signalling products. Design and manufacturing of railway signalling systems

ROMA

Commercial office. Design, project management and installation of rail, urban and mainline infrastructure and systems.

ROMA

Design and installation of signalling systems

BARI

Research centre for railway signaling systems

NOLA

Maintenance centre for NTV fleet (25 Avelia AGV+22 Avelia Pendolino trains)

TRAINS

- 25 Avelia AGV and 26 Pendolino EVO trains for NTV
- 200 Coradia Stream regional trains for Trenitalia and FerrovieNord Milano
- 162 regional trains Jazz/Coradia Meridian for Trenitalia, FNM and other regional operators
- 85 TRAXX DC3 units sold to 8 Italian customer; 191 TRAXX DC2 locos delivered
- 87 Zefiro very high speed trains for the Italian and Spanish market, in temporary association of enterprises agreement (ATI)

SIGNALLING

- About 4000 Italian signalling on board units including ERTMS Level 2 BL2 and BL3
- Management of 6 lines and 64 stations through the Bologna Node signalling integrated Interlocking and the related Control Centre System
- Management of 3 lines and 21 stations through the Roma Node signalling integrated Interlocking and the related Control Centre System
- Upgrading to ERTMS of the Milan-Monza-Chiasso line
- New CBTC radio signalling system for Line 1, and supervision and control system for Lines 1, 2 and 3 of the Milan metro
- CBTC in metro lines of Istanbul (Turkey), Bogotà (Colombia) and Madrid (Spain)
- ECTS on board of RENFE HST 250 fleet
- Tramway solutions in The Netherlands
- ERTMS Level 1 in Algeria, Bulgaria, Ethiopia, Greece, Morocco and Spain and ERTMS Level 1 + radio infill in two Italian lines
- Conventional signalling systems in Italy and Spain

SYSTEMS AND INFRASTRUCTURE

- Electrification for the high-speed lines Bologna-Firenze and Brescia-Verona
- Line M5 of the Milan metro: track and electrification
- Renovation of electrification and supply of overhead power lines for the Milan metro line 2 Gobba-Gessate
- Firenze tramway line 2 and 3 through project financing: track and electrification
- RFI nodes of Rome and Bari: maintenance and renovation of overhead power lines, maintenance of railway yard signalling, maintenance and renovation of electrical sub-station
- Monorail system in Cairo, Egypt and Automated People Mover for Fiumicino airport (Italy)

SERVICES AND MAINTENANCE

- Maintenance of the Avelia Pendolino fleets (level 1 and/or 2) for Trenitalia and SBB
- Maintenance of the Minuetto trains of Trenitalia and regional railways, and of Coradia Meridian trains of Trenord
- Complete maintenance (30 years) of the Italo Avelia AGV and Pendolino fleets
- Maintenance of more than 240 locos, 50 ETR1000 (ATI) and of APM system at Fiumicino airport
- Overhaul and/or technological upgrade of Pendolinos ETR470, coaches, Eu43 and E483 locos for Trenitalia and other operators

KEY PROJECT: HYDROGEN TRAIN FOR ITALY

6 hydrogen fuel cell trains ordered by FNM, with the option of additional 8, to be delivered in December 2023

The first hydrogen trains to run in the Italian rail network

Hydrogen trains based on the Coradia Stream platform, with commercial service of over two years now and more than 130 trains

Designed and manufactured in Italy



Hydrogen Coradia Stream

KEY DATA

More than 500 Avelia Pendolino trains built in Italy and sold in 13 countries

More than 600 regional trains for Trenitalia, FNM and regional operators

More than 1,000 locos for Trenitalia and private operators

Level 2 ERTMS for 300 km of Italian high-speed lines, the first in Europe equipped with the new interoperable standard

FOR MORE INFORMATION:

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