Data sheet

POP*:* THE NEW GENERATION OF REGIONAL TRAINS

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The Pop regional trains commissioned by Trenitalia from Alstom Italia are technologically advanced, comfortable, environmentally friendly and easily customised.

Technical characteristics

A member of the Coradia Stream family, the new electric, single-decker Pop trains have four traction engines, a maximum speed of 160 km/h, seating for more than 530 passenger with 300 seats in the 4-car version and around 400 passengers with 200 seats in the 3-car version. The Pop train can be customised to allow an enormous variety of interiors and accessories. They represent the fourth-generation of a model that is already in commercial service in ten Italian regions, and are produced in conformity with the Technical Specification for Interoperability (TSI).

Pop is a comfortable and accessible train

The spacious carriages of the new Pop trains offer ample seating for the medium-length journeys, typical of regional and inter-regional services, whereas their single or longitudinal seats and easily accessible vestibules are ideal for the shorter journeys, typical of suburban traffic. The seats are equipped with power sockets for PCs, tablets and cell phones. The lighting is optimised by the large windows that let in more natural light, and passenger circulation is facilitated by wide corridors that are also suitable for people with reduced mobility.
Minimal levels of noise and vibrations ensure a quiet and comfortable journey. Carriage temperatures are adjusted by a higher-power air conditioning system. The structure and characteristics of the aluminium carriages contribute to improving thermal insulation by further reducing the time to cool the interiors in the summer or heat them in the winter. Carbon dioxide monitoring makes it possible to regulate the amount of fresh air entering from the outside. The cantilever seating avoids the need for floor supports and makes cleaning easier.

Pop is a high-tech train: more passenger comfort and information

The new Pop trains are equipped with an information system that is integrated with the ground infrastructure of Trenitalia and offers an audio-video information and entertainment service with numerous LCD screens visible from all parts of each carriage

and the predisposition for Wi-Fi network. Passenger safety is guaranteed by a digital camera video-surveillance system and monitors. A passenger-counting system makes it possible to keep track of the number of people on board in real time.
Large monitors make it easier to read the real-time passenger information concerning traffic, the weather, and local tourist attractions. They also show the live images coming from the cameras in order to increase the passengers' perception of safety. The passenger information system monitors and display screens in each carriage are arranged ergonomically and equipped with speakers.

Multiple trains in one: Pop can be easily customised

Pop trains can be easily reconfigured. Their architecture allows each region to personalise the layout of the interiors and modify seating arrangements. Additional seating can be installed for longer journeys, or seats can be removed to free more standing room for shorter stretches. Pop trains can carry up to 15% more passengers than their predecessor, and are all equipped with eight bicycle racks. The interiors can be adapted to the region and the season.

An environmentally friendly and energy-saving train

The new Pop trains satisfy the criteria of environmental sustainability and are 96% recyclable. They consume 30% less energy than their predecessor. No solvents or other toxic chemical substances are used in their production. The air conditioning and ventilation systems are regulated on the basis of the number of passengers, and the door closure is programmed in such a way as to avoid any thermal dispersion. Eco mode is activated when necessary. The LED passenger lighting is automatically regulated on the basis of the amount of light outside the train.