

## Frecciarossa 1000: The record-breaking train

*The new Frecciarossa 1000 will travel at an average speed of 360 kilometers per hour, saving energy and respecting the environment*

*Frecciarossa 1000, built by AnsaldoBreda and Bombardier, will be the quietest and lowest-environmental-impact train thanks to its aerodynamic shape that will reduce energy consumption and noise, and to the use of light alloys.*



It is called the [Frecciarossa 1000](#), the latest jewel built by [AnsaldoBreda](#) (a Finmeccanica Group company) with Bombardier. The new high-speed train will travel at an average speed of 360 kilometers per hour on the high-speed railway lines in Italy and Europe, reaching a top speed of 400 kilometers per hour.

On 18 September in Berlin, this innovative train will be one of the stars of "[Innotrans 2012](#)", the international trade fair for transport technology. The leading edge solutions for saving energy and the aerodynamic design are only the first characteristics that strike the viewer.

Frecciarossa 1000 will be the fastest series-production train ever built in Europe, the quietest with less vibration and lower environmental impact. The reduced drag, the result of simulations and studies carried out in wind tunnels, limits in fact energy consumption and noise.

The use of light alloys to build the bodies of the vehicles and the furnishings, in addition to optimizing the mass/power ratio, will allow the material to be recovered at the end of the train's lifecycle without any environmental impact.

The job order of the Italian Ferrovie dello Stato, worth

€1,540,000,000, is currently the highest in progress in Italy. It calls for the building of 50 trains, which for AnsaldoBreda means roughly 2 million production hours and the work of 50 engineers only for the engineering part, 30 for staff operations, 200 workers with more than 50 companies involved in the induced business.

"The success of the Frecciarossa 1000," states Maurizio Manfellotto, CEO of AnsaldoBreda, "must be shared with the many workers, employees and managers that work here every day with dedication and passion. Women and men who are working hard to allow AnsaldoBreda to compete not only on the domestic market but also and above all on the European and international ones, with products that range from high-speed trains to metro services".

The Ferrovie dello Stato's new high-speed train will enter into service within a couple of years, reducing travel time between Rome and Milan even further, getting closer to two hours than the current three, at least for trains without intermediate stops. Unlike the current Frecciarossa (ETR 500), which is equipped with engines only at the front and rear, the new train will be equipped with 16 engines along the entire train, that will be 202 meters long. This solution will make the train more stable and allow it to travel at higher speeds, also thanks to other adjustments.



**Fonte:** [Planet Inspired](http://www.facebook.com/planetinspired)

<http://www.facebook.com/planetinspired>

[https://twitter.com/PlanetInsp\\_EN](https://twitter.com/PlanetInsp_EN)