

V300ZEFIRO

A new sense of speed



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The V300ZEFIRO train brings a new sense of speed to very high speed travel. It is the train of tomorrow, a train that knows no frontiers.

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Built in partnership with AnsaldoBreda, the V300ZEFIRO train in Italy, named Frecciarossa 1000 by operator Trenitalia, is an Italian train with a pan-European concept. The trains are designed and built in Italy, but are operable on any high speed rail networks equipped with multi-voltage technology fulfilling all necessary TSI requirements.

Moreover, the V300ZEFIRO train sets new standards in performance, operating efficiency and passenger comfort. Running at up to 400 km/h, it will be Europe's fastest series production train.



Executive interior

State-of-the-art aerodynamics and energy saving technologies give it unmatched operating efficiency, ensuring rapid return on investment. Not only is it the fastest ever mass-produced train in Europe, but it is also the most silent, with minimal vibrations and the lowest environmental impact.

VERY HIGH SPEED

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The V300ZEFIRO train sets new benchmarks in seating, lighting, disability friendliness, catering and other facilities, to offer unparalleled passenger comfort and convenience.

It also sets new benchmarks in train maintenance with CBM (conditioned-based maintenance), a leading-edge concept for efficient operational management of the train.

Bombardier Transportation, AnsaldoBreda and Bertone have created an exterior and interior design taking the V300ZEFIRO train into new dimensions of aesthetics and passenger friendliness.



Business interior

Main features

Interoperability	Fully TSI compliant
Configuration	8 cars (4M + 4T) or 16 cars in multiple traction
Length over buffers	202 m
Width	2,924 m
Height	4,080 m
Full load mass	500 t
Mass per axle	17 t
Crshell structure	Aluminium alloy
Gauge	1,435 m
Floor height from t.o.r.	1,240 m
Wheel diameter	920/850 mm
Doors per side	13 + 1 for disabled people
Door width	900 mm
Seats	Up to 600
Disabled people area	For two wheel chairs

Toilet	12 + 1 for disabled people + 1 for staff
Voltage	25kV 50Hz / 15 kV 162/3Hz 3 kV dc - 1,5 kV dc
Maximum power	9,800 kW
Maximum traction effort	370 kN
Max operation speed	360 km/h
Max acceleration	0,7 m/s ²
Max deceleration	1,2 m/s ²
Drive	Water cooled IGBT inverter and asynchronous motors
Signaling systems	ETCS Level 2 + National Systems
Air conditioning	Redundant air conditioning system on each coach. Pressure wave protection
Services	Bar Bistrot / Internet / CCTV / Passenger Information System

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