



Advanced**TRS**®
Turbulence Reduction System



AdvancedTRS[®]

Turbulence Reduction System

Improving train performance whilst reducing environmental impact.

Reduce journey times, save fuel, and increase sustainability by reducing aerodynamic losses through our industry-leading Turbulence Reduction System.

The Advanced TRS[®] system is designed with cutting fuel consumption and CO2 emissions in mind. By focusing on reducing the aerodynamic drag of a train through our patented active flow technology, it is possible to achieve both of these goals with significant effect.

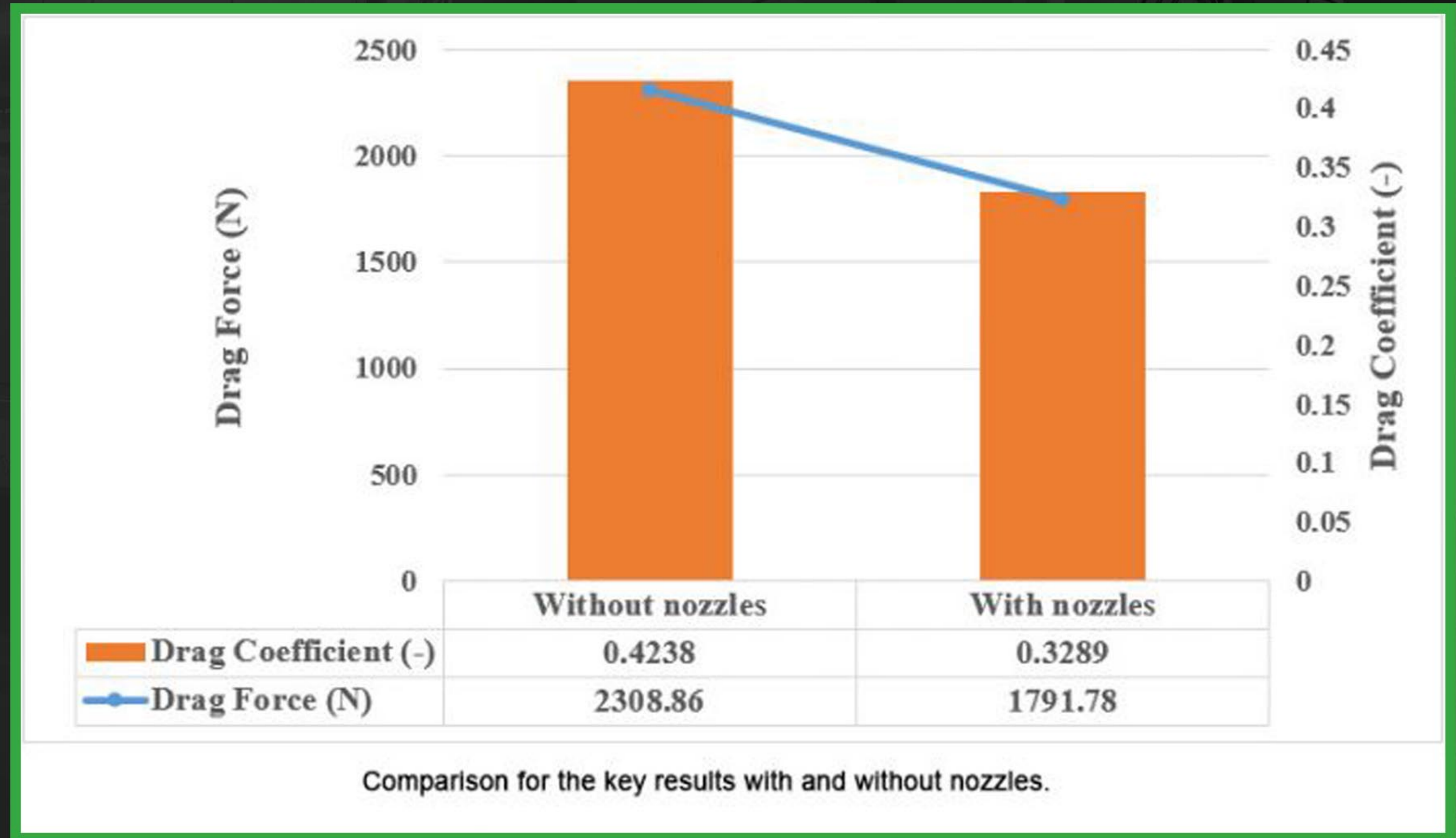
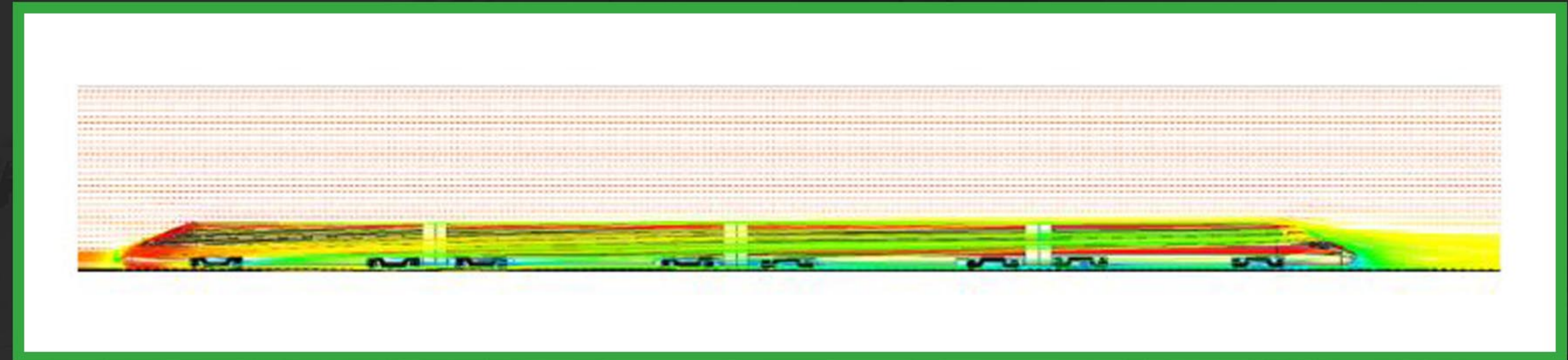
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Through our innovative research program, we used a passenger train model (Class 220 Voyager) as a test case for our computational fluid dynamics (CFD) simulation. Via the CFD testing, Ogab[®]'s Advanced TRS[®] was able to reduce the drag coefficient of the train by 22.34%. Consequently, this led to an incredible reduction in fuel consumption by 11.17%.

By reducing fuel consumption by 11.17% in just one trainset, whole fleets can enjoy significant fuel savings. Not only helping to reduce the cost of managing train fleets, but also reducing fuel use, lessening the negative impact on the environment.

With the use of Advanced TRS[®], in five years, one train can save 454,346 litres of diesel. This equates to a saving of 1,327,265kg CO2 emissions.





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