

The 3D Potential Flow Simulation of an Electric Commuter Train's Velocity and Pressure with LISA FEA V.8

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Abstract: The current research examines the aerodynamic behaviour of an electric commuter rail vehicle moving at 100 km/h by comparing the findings of 3D simulation with manual estimations of dynamic pressure and velocity. Compared to manual approaches, the simulation yielded more accurate insights using the potential flow theory-based LISA FEA V.8 program. There was a 5% discrepancy between the simulation's range of 0.546 kN/m² to 4.865 kN/m² and the manually determined dynamic pressure of 4.633.3 kN/m². The simulation demonstrated the impact of intricate aerodynamic interactions, which produced a velocity of 31.66 m/s, 14% greater than the manual calculation at the train's front of 27.78 m/s. Furthermore, the simulation revealed an uneven velocity distribution contributing to drag, with the highest speeds along the sides and a low-pressure wake at the back. These findings highlight the need for sophisticated simulations to improve train design, lower drag, increase energy efficiency, and improve passenger comfort. They also show the limitations of simplified computations.

Keywords: aerodynamic; behavior; lisa; pressure; velocity

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INTRODUCTION

Urban rail networks, particularly electric commuter trains, are essential to contemporary urban travel. Because these systems run at high speeds, efficiency and safety depend on understanding aerodynamic behaviour, particularly dynamic pressure and velocity. Trains travelling through the air are subject to several influences affecting speed, energy usage, and passenger comfort.

This research examines the dynamic pressure and velocity characteristics of a KRL moving at 100 km/h. It uses a possible fluid flow theory-based 3D simulation with the LISA FEA V.8 program. The aim of this study is to find the dynamic pressure and velocity profiles at various locations on the train's surface, track, and surrounding atmosphere in order to comprehend the aerodynamic consequences.

Aerodynamics is essential for safe and energy-efficient high-speed rail operations. The train's velocity and air pressure interact to

produce dynamic forces, which may affect the rail car's structural integrity and stability. Furthermore, variations in dynamic pressure may result in drag, which raises energy consumption. Understanding these forces and velocities is crucial for reducing drag and noise and improving passenger comfort.

The LISA FEA V. 8 software is a valuable tool for simulating possible fluid flows in three dimensions and gaining a thorough understanding of the aerodynamic behavior of high-speed trains. Potential flow theory, by simplifying fluid motion equations, provides a computationally efficient method of analyzing fluid behaviour around the KRL, particularly when the turbulent flow is not present.

The distribution of dynamic pressure along the KRL's surface and the effect of velocity fluctuations on the surrounding fluid flow at a speed of 100 km/h are the two main goals of this study, which uses LISA V.8 FEA. Through an analysis of these variables, the study seeks to pinpoint important

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