

The authors have satisfactorily addressed the concerns raised during the review round. In particular, the manuscript has been significantly improved in terms of clarity of the numerical methodology, including a more detailed description of the initialization procedure for the URANS simulations, the specification of boundary conditions and domain extent, and the justification of time-step and grid-sensitivity analyses.

The discussion on compressibility effects, in Section 3.2, and their relevance to the considered operating conditions, now clarifies better the technical contribution of this section. Furthermore, the authors have improved the presentation of the results, corrected figure and reference inconsistencies, and clarified captions and legends, which enhances the overall readability of the paper.

Overall, the revised manuscript now provides sufficient methodological transparency, improved result interpretation, and clearer presentation. In my opinion, the work is suitable for publication in its current form. I therefore recommend acceptance.