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POSSIBILITY OF ZERO-GRAVITY FLIGHT SERVICE BY MRJ (MITSUBISHI REGIONAL JET)

**Abstract**

Japan has been developing a domestically produced passenger plane called the MRJ (Mitsubishi Regional Jet) since 2008 where 10 planes were manufactured and test-flown. However, due to the rash of development delays and the effects of COVID-19, development has been frozen in 2020. If this situation continues, the development of MRJ may end up completely in vain. Therefore, ASTRAX is investigating the possibility of using the MRJ in this development stage to develop a zero-gravity flight service in Japan and Asia. In this paper, while analyzing the advantages and disadvantages of MRJ, we will present a summary of ideas and issues to approve MRJ not as a passenger plane, but as a special plane for experiments and research to use it for zero-gravity flight services in Japan and Asia.