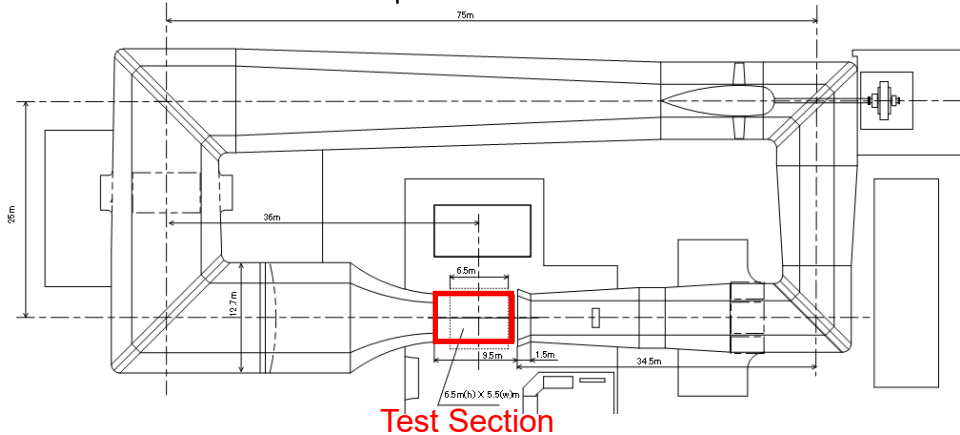


6.5m x 5.5m JAXA LWT1 Test Section & JSM

JAXA 6.5m x 5.5m Low-speed Wind Tunnel



Note 1:

The coordinate system is the same as the one used in the geometry files of the JAXA Standard Model (JSM) available on the HiLiftPW-3 website:
<https://hiliftpw.larc.nasa.gov/Workshop3/geometries.html>.

Note 2:

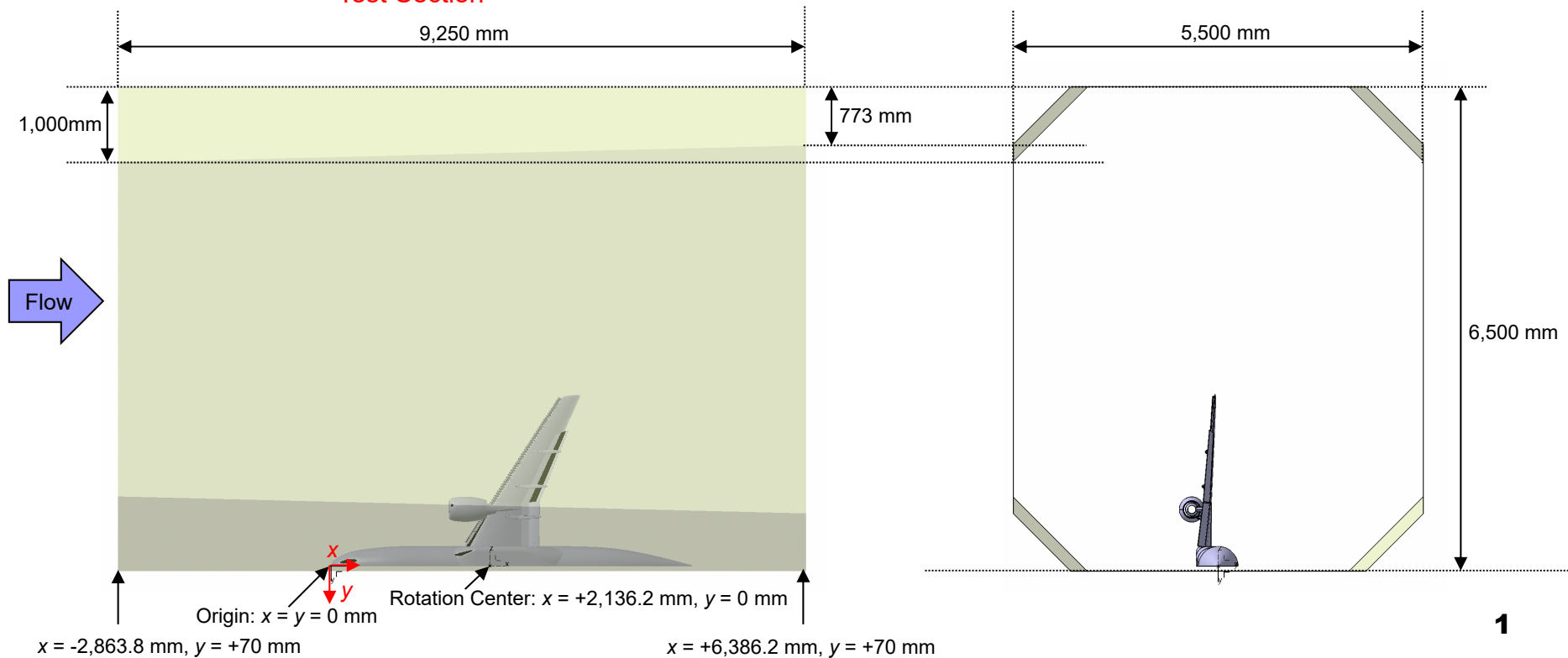
The tunnel floor is shifted to +70 mm in the y direction to include a 60-mm stand-off and a 10-mm labyrinth-like seal.

Note 3:

The moment reference center, $x = 2375.7$ mm and $y = z = 0.0$ mm, is given at an angle of attack, α , of 0 degrees and needs to be transformed when JSM rotates around the rotation center, $x = +2,136.2$ mm and $y = z = 0.0$ mm by α .

Note 4:

The cross-section of the test section has an octagonal shape. The length of the cutting corner is 1,000 mm at the start of the test section and 773 mm at the end of the test section, respectively.



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https://www.jstage.jst.go.jp/article/jjsass1953/15/167/15_167_408/_pdf/-char/ja
2. Murayama, M., Yokokawa, Y., Tanaka, K., Yamamoto, K., and Ito, T., “Numerical Simulation of Half-span Aircraft Model with High-Lift Devices in Wind Tunnel,” AIAA Paper 2008-333, 2008, DOI: 10.2514/6.2008-333.
3. Yokokawa, Y., Murayama, M., Uchida, H., Tanaka, K., Ito, T. and Yamamoto, K, “Aerodynamic Influence of a Half-Span Model Installation for High-Lift Configuration Experiment,” AIAA Paper 2010-684, Jan. 2010, DOI: 10.2514/6.2010-684