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ABSTRACT

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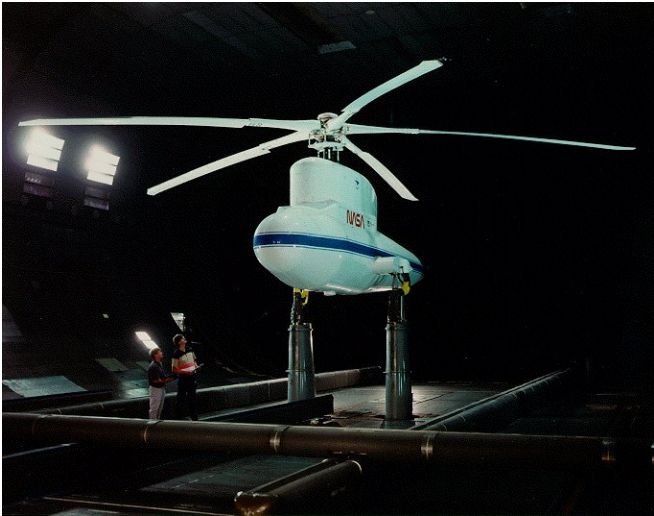


Figure 1. Sikorsky bearingless rotor mounted in the NASA Ames 40- by 80-Foot Wind Tunnel.

Tables

The number of tables should be kept to a minimum. Each table must have a number and a caption and should be cited in numerical order in the text. Tables should be simple and arranged in the following format. Type a double line at the top and bottom of each table and a single line under the column headings. Table footnotes should be placed under the bottom double line and should be indicated by the letters a, b, c, d, etc. See Table 1 for an example of an alternative format using color. The data is given for illustrative purposes only.

Table 1. AgustaWestland AW609 Aircraft Characteristics.

Characteristic	English	Metric
Engines	2 x P&WC ^a PT6C-67A turboshaft	
Passengers	6 to 9 pax + 1–2 crew	
Engine Power	2 x 1,940 shp	2 x 1,450 kW
Wingspan	33.8 ft	10.3 m
Length	46 ft	14.0 m
Height	15 ft	4.5 m
Proprotor Diameter	26 ft	7.9 m
Max Useful Load	5,500 lb	2,500 kg
Max Gross Weight	16,000 lb	6,974 kg
Range	750 nm	1,389 km
Service ceiling	25,000 ft	11,364 m
Vmax (at cruise)	275 kt	509 km/h

^aP&WC: Pratt & Whitney Canada

CONCLUSIONS

The most important results of the paper should be summarized as a concise list of numbered items. Conclusions should be supported by development in the main text and no new material should be introduced in this section. If the paper did not result in specific conclusions, then the section may be entitled Concluding Remarks or Concluding Recommendations, with brief summary comments as appropriate.

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ACKNOWLEDGMENTS

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REFERENCES

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The references should be cited in the text as: "This approach is discussed in Ref. 2. ..." or "Johnson (Ref. 3) showed that..." or "Reference 3 discusses the approach..." Do not use the superscript citation style, such as "Johnson¹ showed that..."

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1. Johnson, W., *Helicopter Theory*, Princeton University Press, Princeton, NJ, 1980, pp. 808–813.
2. Leishman, J. G., *Principles of Helicopter Aerodynamics*, Cambridge University Press, New York, NY, 2000, Chapter 10.

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3. Friedmann, P. P., and Hodges, D. H., "Rotary-Wing Aeroelasticity with Application to VTOL Vehicles," *Flight-Vehicle Materials, Structures, and Dynamics*, edited by A. K. Noor and S. L. Venneri, Vol. 5, Part II, Chap. 6, American Society of Mechanical Engineers, New York, NY, 1993, pp. 299–391.

For a journal reference the title of the journal is italicized. All authors must be stated (again, do not use *et al.* for multiple authors). The volume, number, and page numbers of the article must be given. Include the digital object identifier (DOI), if known. The following style should be used:

4. Marchman, J. F., III, and Uzel, J. N., "Effect of Several Wing Tip Modifications on a Trailing Vortex," *Journal of Aircraft*, Vol. 9, (9), 1972, pp. 684–686.

For Journal of the American Helicopter Society Volume 1 to Volume 53 (2008):

5. Chopra, I., "Dynamic Stability of a Bearingless Circulation Control Rotor Blade in Hover," *Journal of the American Helicopter Society*, Vol. 30, (4), 1985, pp. 40–47. DOI: 10.4050/JAHS.30.40.

For Journal of the American Helicopter Society Volume 54 (2009) to Current:

6. Yeo, H., Potsdam, M., and Ormiston, R. A., "Rotor Aeroelastic Stability Analysis Using Coupled Computational Fluid Dynamics/Computational Structural Dynamics," *Journal of the American Helicopter Society*, Vol. 56, (4), October 2011, pp. 1884–2013. DOI: 10.4050/JAHS.56.042003.

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For a conference paper, the paper number (where available) and proceedings volume information must be given. For Vertical Flight Society meetings, the location of the meeting should be given. Note: prior to 2019, VFS was known as AHS (American Helicopter Society).

Examples of this style are:

9. Sadler, S. G., "A Method for Predicting Helicopter Wake Geometry, Wake-Induced Inflow and Wake Effects on Blade Airloads," American Helicopter Society 27th Annual Forum, Washington, DC, May 1971.
10. Brentner, K. S., and Jones, H. E., "Noise Prediction for Maneuvering Rotorcraft," Paper AIAA 2000-2013, 6th AIAA/CEAS Aeroacoustics Conference, Lahaina, HI, June 12–14, 2000.

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