



# Smithsonian

*National Air and Space Museum*

Henry V. Borst Collection

2003

National Air and Space Museum Archives  
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## Collection Overview

<b>Repository:</b>	National Air and Space Museum Archives
<b>Title:</b>	Henry V. Borst Collection
<b>Date:</b>	undated
<b>Identifier:</b>	NASM.2002.0038
<b>Creator:</b>	Borst, Henry V.
<b>Extent:</b>	11.99 Cubic feet ((11 record center boxes))
<b>Language:</b>	English .
<b>Digital Content:</b>	<a href="#">Image(s): Henry V. Borst Collection</a>

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## Administrative Information

### Acquisition Information

Henry V. Borst, Gift, 2002

### Preferred Citation

Henry V. Borst Collection, Accession 2002-0038, National Air and Space Museum, Smithsonian Institution.

### Restrictions

No restrictions on access.

### Conditions Governing Use

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## Biographical / Historical

Henry Borst graduated from Rensselaer Polytechnic Institute and went to work for Curtiss-Wright's propeller division. Borst became the chief aerodynamicist for the Curtiss-Wright propeller division before he left to work for a few years at Boeing. Borst left Boeing in 1970, and from that year until 2002, he was head of Henry Borst and Associates in Wayne, Pennsylvania. Among his many significant propulsion consulting jobs was his engineering design work on the fan blades for the Ames 40 x 80 wind tunnel. Besides his consulting work, Borst wrote two books. Borst's book, *Fluid-Dynamic Lift: Information on Lift and its Derivatives in Air and in Water*, presented by Dr.-Ing. S. F. Hoerner, and co-authored by the donor, is considered a classic in the field. In his book, *The Aerodynamics of the Unconventional Air Vehicles of A. Lippisch*, Borst discusses Lippisch's contributes to basic aerodynamic theory, and to delta and tailless theories.

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## Scope and Contents

This collection consists of the following material: 4.5 cubic feet of research material relating to the book *Fluid-Dynamic Lift: Information on Lift and its Derivatives in Air and in Water*, presented by Dr.-Ing. S. F. Hoerner, and co-authored by the donor, Henry V. Borst; 4.5 cubic feet of research material relating to the following book authored by the donor, *The Aerodynamics of the Unconventional Air Vehicles* of A. Lippisch; two cubic feet of material relating to donor's work with the Ames wind tunnel fan blades; and four films of the Curtiss-Wright X-19.

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## Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Aeronautical engineers
- Aeronautics
- Curtiss X-19 VTOL
- Propellers, Aerial -- Design and construction
- Wind tunnels

Types of Materials:

- Correspondence
- Manuals
- Motion pictures (visual works)
- Research

Names:

- Boeing Company
- Curtiss-Wright Corporation
- Henry Borst and Associates
- Hoerner, Sighard F., 1906-
- Lippisch, Alexander, 1894-1976
- National Aeronautics and Space Administration. Ames Research Center