



Smithsonian

*National Museum of American History Kenneth E. Behring Center*

## Orlan W. Boston Dynamometer Papers, 1927-1950

NMAH.AC.0811

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September 2002

Archives Center, National Museum of American History

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# Table of Contents

Collection Overview .....	1
Administrative Information .....	1
Arrangement.....	2
Scope and Contents.....	2
Biographical / Historical.....	1
Names and Subjects .....	2
Container Listing .....	3

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## Collection Overview

<b>Repository:</b>	Archives Center, National Museum of American History
<b>Title:</b>	Orlan W. Boston Dynamometer Papers
<b>Date:</b>	1927-1950
<b>Identifier:</b>	NMAH.AC.0811
<b>Creator:</b>	Boston, Orlan W. (Creator)
<b>Source:</b>	National Museum of American History (U.S.). Division of History of Technology
<b>Extent:</b>	0.33 Cubic feet (1 box)
<b>Language:</b>	English .

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## Administrative Information

### Acquisition Information

Boston donated his papers (and artifacts) to the Division of the History of Technology, Engineering and Industry Collections, (formerly the Division of Civil and Mechanical Engineering), National Museum of American History in 1961. They transferred the papers to the Archives Center in 2002.

### Processing Information

Collection processed by Don Darroch and Robert Harding, September 2002.

### Preferred Citation

Orlan W. Boston Papers, 1926-1947, Archives Center, National Museum of American History.

### Restrictions

Collection is open for research.

### Conditions Governing Use

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## Biographical / Historical

Orlan W. Boston graduated from the University of Michigan Engineering College in 1913, received a Masters degree in 1917 and the degree of Mechanical Engineer in 1926. In 1917 he was commissioned in the U.S. Navy Bureau of Ordnance and later was employed on the Cleveland Tractor Co. In 1921 he rejoined the University of Michigan faculty as Professor, College of Engineering.

## Scope and Contents

This collection consists of technical papers, tables, charts, photographs and other information on tests of the physical, and chemical properties of metals, as determined by various cutting and other processes.

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## Arrangement

The collection is arranged into one series.

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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:

- Dynamometer
- Mechanical engineering

Types of Materials:

- Articles
- Charts
- Diagrams
- Laboratory notes
- Lectures

Names:

- National Museum of American History (U.S.). Division of History of Technology

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## Container Listing

Box 1, Folder 1	"Machinability of Metals," Paper 22, O.W. Boston
Box 1, Folder 2	"Surface Quality versus Cutting Fluids and Speed Tool stopped in cut to leave Built-up edge and chip attached," O.W. Boston, University of Michigan, ca. 1927
Box 1, Folder 3	"Methods of Tests for Determining Machinability of Metals in general with Results," Paper 32, O.W. Boston, 1928
Box 1, Folder 4	"Preliminary Photographic Work in Metal Cutting on a planer to study Chip Formation and >What Happens When Metal is Cut." University of Michigan Machine Tool Lab, O.W. Boston, 1928 (not published)
Box 1, Folder 5	"What Happens When Metal Is Cut?" Paper 44, O.W. Boston, 1928
Box 1, Folder 6	"A Simple Cutting Tool for Measuring Pressures in the Direction of the Cut" Paper 59, O.W. Boston and C.E. Kraus, 1931
Box 1, Folder 7	Cutting Temperatures: miscellaneous papers, reports, bibliography and data by students of Prof. O.W. Boston, University of Michigan, 1934-1942
Box 1, Folder 8	Address on "Machinability of Metals" to American Society for Metals, Hamilton, Ontario, March 1937, O.W. Boston, Professor of Production Engineering, University of Michigan.
Box 1, Folder 9	"Nomenclature and Terminology Applied to Teeth of Milling Cutters," O.W. Boston, University of Michigan, November, 1937. Later Paper 91 and "SA Standard B5cl-1947.
Box 1, Folder 10	"Analysis of Machinability Data from Cold-Finished & Heat Treated S"E 1045 Steel," Paper 106, O.W. Boston & W.W. Gilbert, University of Michigan, June 8, 1939
Box 1, Folder 11	"Cutting Temperatures: Verification of the Two-Tool Thermocouple," William S. Bugielsky, May, 1942
Box 1, Folder 12	Unbound research papers and writings by O.W. Boston and others, ca. 1924-1950