



Smithsonian

National Museum of American History Kenneth E. Behring Center

Guide to the Worthington Corporation Records

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	Worthington Corporation Records
Date:	1840-1982
Identifier:	NMAH.AC.0916
Source:	National Museum of American History (U.S.). Division of Work and Industry (Collector) National Museum of American History (U.S.). Division of History of Technology (Collector) National Museum of American History (U.S.). Division of Mechanical and Civil Engineering (Collector)
Creator:	Holly Manufacturing Company Worthington Corporation (Creator)
Extent:	18 Cubic feet (54 boxes, 1 map folder)
Language:	Collection primarily in English, but also contains trade literature in Spanish, Portuguese, Italian and French.
Summary:	This collection documents the products and business activities of the Worthington Corporation, its predecessors and its subsidiaries. The records focus on the products that the Worthington Corporation produced, including steam pumps, hydraulic pumps and gas engines.

Administrative Information

Immediate Source of Acquisition

Donated to the Smithsonian in the 1960s by Studebaker Worthington, Inc.

Ownership and Custodial History

Transferred to the Archives Center in 2007 by the Division of Work and Industry.

Related Materials

Archives Center, National Museum of American History

Warsaw Collection of Business Americana, Series: Pumps (AC0060)

Division of Political and Military History

The Division of Political and Military History holds photographs of a World War I bond drive at the Deane Works of Holyoke, Massachusetts. See accessions: 1979.0015.01 and 1979.0015.04.

Division of Medicine and Science

The Division of Medicine and Science holds several Watch Dog Water Meters produced by the Worthington-Gamon Meter Company. See accessions PH.325890 and PH.325891.

Smithsonian Institution Libraries Trade Literature Collection

The libraries contain trade literature on Worthington and its subsidiaries.

Processing Information

Collection processed by Miles Lawlor; supervised by Alison Oswald, archivist, July 2019.

Preferred Citation

Worthington Corporation Records, 1840-1982, Archives Center, National Museum of American History.

Restrictions

Collection is open for research.

Conditions Governing Use

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Biographical / Historical

Henry R. Worthington (December 17, 1817-December 17, 1880) was an innovator in the world of 19th century steam pumps earning patents for a direct-acting steam pump (US Patent 6274) and a duplex steam pump (US Patent 116,131). Initially, Worthington partnered with William H. Baker to found the Worthington & Baker Works in 1845, with the works based in Brooklyn. Worthington's company began by producing various pumps for naval craft, including pumps installed on the *USS Monitor*, the first ironclad ship of the US Navy. After Baker's death, Worthington changed the name of his business to the Henry R. Worthington Corporation and expanded into the production of water works pumps for major cities. Worthington pumps gained international acclaim at World's Fairs in the latter half of the 19th century. Fountains at the Centennial Exposition of 1876 and Columbian Exposition of 1893 and the hydraulic pumps for the Eiffel Tower's elevators at the Exposition Universelle of 1900 were all powered by Worthington products.

In 1899, Worthington was purchased and merged into the International Steam Pump Company, along with the Blake and Knowles Steam Pump Company, Laidlaw-Dunn-Gordon Company, the Snow Steam Works, the Deane Steam Pump Company and several smaller works. After the acquisition of these different works, the International Steam Pump Company's product line expanded to include gas engines and mining machinery.

International Steam Pump reverted to the Worthington name, first as Worthington Pump and Machinery Corporation (1916-1952) and then as the Worthington Corporation (1952-1967). It was also during this time when Worthington relocated its main works from Brooklyn to Harrison, New Jersey in 1917. All the while, the company continued to produce hydraulic engines, gas engines and water works pumps. Through various mergers the company also diversified into refrigeration and air conditioning. In 1967, the Worthington Corporation merged with the Studebaker Automobile Manufacturing Company, becoming Studebaker-Worthington.

Scope and Contents

This collection documents the products and business activities of the Worthington Corporation, its predecessors and its subsidiaries. It consists of annual and monthly reports, correspondence, legal filings, trade literature, photographs, airbrushed photographs and product illustrations, financial reports, meeting minutes, newsletters, company histories and research notes, patents, blueprints, engineering sketchbooks, lecture notes, publications, and promotional materials for several World's Fairs where Worthington products were exhibited.

Arrangement

The collection is arranged into five series.

Series 1: Historical and Reference Materials, 1847-1965

Series 2: Administrative and Business Records, 1856-1963

Series 3: Publications, 1872-1982

Series 4: Photographs, 1840-1964

Series 5: Sketchbooks and Notebooks, 1882-1964

Names and Subject Terms

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

Subjects:

- Business -- History
- Diesel engines
- Pumping machinery
- Rock-drills
- Steam-engines
- Steam-turbines

Types of Materials:

- Advertisements
- Correspondence -- 19th century
- Financial records -- 20th century
- Legal documents
- Minute books
- Newsletters -- 20th century
- Patents
- Photographs -- 19th century
- Reports
- Sketchbooks
- Trade catalogs

Names:

- Grace, John F.
- Henry R. Worthington Pump Works
- International Steam Pump Company
- Jeanesville Iron Works
- National Museum of American History (U.S.). Division of History of Technology
- National Museum of American History (U.S.). Division of Mechanical and Civil Engineering
- National Museum of American History (U.S.). Division of Work and Industry
- Worthington Pump and Machinery Corporation

Places:

- Buffalo (N.Y.)
- Cincinnati (Ohio)
- England

Hazleton (Penn.)
Holyoke (Mass.)
London

Container Listing

Series 1: Historical and Reference Materials, 1847-1965

Scope and Contents: This series includes court proceedings, organizational charts, company histories for several Worthington subsidiaries, drafts of a company history and accompanying research notes, correspondence, World's Fair programs, cartoon sketches, and a Concurrent Resolution from the New Jersey Legislature.

Box 1, Folder 1	Patent for Force Pump with Fire Engine Attachment, 1847
Box 1, Folder 2-3	"The Worthington Steam Pumping Engine" autographed by Henry R. Worthington, 1876
Box 1, Folder 4	Final Draft of J.F. Grace's Company History, 1957
Box 1, Folder 5	"History of Worthington Corporation Draft, circa 1957
Box 1, Folder 6-8; Box 2, Folder 1-3	J.F. Grace Research Notes, 1912-1964
Box 2, Folder 4	J.F. Grace Cartoon Sketches, circa 1920-1941 Notes: Includes pencil and pen and ink drawings done by J.F. Grace relating to the Worthington Corporation. Many of these drawings appear to satirize other Worthington employees and business practices.
Box 2, Folder 5	1859 Pumping Engine Patent Extension Case, 1873
Box 2, Folder 6	J.F. Grace Brooklyn Works File, 1946-1949
Box 2, Folder 7; Map-folder 1; Box 43, Folder 3	Company History Charts, undated
Box 2, Folder 8	Sketch of Worthington Family Tree, 1950s
Box 2, Folder 9	Henry R. Worthington Correspondence, 1862-1885
Box 2, Folder 10	Worthington Centennial Exhibition Water Supply Invitation, 1876
Box 2, Folder 11	"Plan of World's Columbian Exposition and Handy Map of Chicago" Printed by Henry R. Worthington Company, 1893
Box 2, Folder 12; Box 44, Folder 1	Worthington Winged Globe Symbol, undated

Box 2, Folder 13	Worthington's Participation in World War I, 1919-1920
Box 2, Folder 14	Reorganization as the Worthington Pump and Machinery Corporation, 1915-1916
Box 2, Folder 15	Hydraulic Works Machinists' Aid Society Annual Ball Program, 1894
Box 2, Folder 16	"100 Years of Worthington" Booklet, 1940
Box 3, Folder 1-2	Writings and Speeches by Worthington Executives, 1953-1955
Box 3, Folder 3	Ingersoll-Rand v. Worthington Patent Infringement Case, 1933
Box 3, Folder 4	Early History of Holly Manufacturing Company, 1859-1912
Box 3, Folder 5	Holly Manufacturing Receivership, 1915-1916
Box 3, Folder 6	Snow-Holly Works Early History and Correspondence, 1919
Box 3, Folder 7	Foster-Wheeler Company History, Chapters One and Two, undated
Box 3, Folder 8	Guaranty Trust Company v. International Steam Pump Company Affidavits and Foreclosure Decree, 1915-1916
Box 3, Folder 9	Worthington Governor in use in Estes Park, Colorado, 1962
Box 3, Folder 10	Programs for "E" and "M" Flag Presentations by the Navy and United States Maritime Commission, 1942-1943
Box 3, Folder 11	Laidlaw Feather-Valve History, 1915
Box 44, Folder 2; Map-folder 1	J.F. Grace Brooklyn Works, 1946-1949
Box 44, Folder 4-5	Holly Manufacturing Minutes of Trustees, 1859-1912
Box 44, Folder 6	History of the Coolgardie Water Supply Scheme, undated
Box 44, Folder 7	New Jersey Concurrent Resolution Commemorating the 125th Anniversary of the Worthington Corporation, 1965

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Series 2: Administrative and Business Records, 1856-1963

Scope and Contents: This series documents the business activities of the Worthington Corporation. It includes monthly and annual reports, price books, patents, reference binders maintained by sales offices, stock circulars and stockholder reports, memoranda and correspondence, press clippings, blueprints, product testimonials, employee handbooks and apprentice contracts. The series also contains booklets given to supervisors at Worthington as part of an Industrial Management course offered by the YMCA in 1919.

Box 3, Folder 12	Employee Pay Rates, 1873-1903
Box 3, Folder 13	Rules and Regulations Relative to Apprentices, undated
Box 3, Folder 14	Departmental Organizational Charts, 1918
Box 3, Folder 15	J. Ericsson Correspondence, 1880
Box 3, Folder 16	Administrative Correspondence, 1903
Box 3, Folder 17	Advertising Correspondence, Mockup and Clippings, 1919-1958
Box 3, Folder 18	Plan for Recapitalization, 1937
Box 3, Folder 19	Memoranda from the New York Office, 1916-1927
Box 3, Folder 20	Publicity Department Correspondence, 1911
Box 4, Folder 1	Program Trainee Lists and Photographs, 1920-1943
Box 4, Folder 2	Annual Reports, 1901-1913
Box 4, Folder 3	Annual Reports, 1923-1926
Box 4, Folder 4	Report of the Directors for Worthington-Simpson Limited, 1923-1927
Box 4, Folder 5	Harrison Works Annual Report Photographs, 1929
Box 4, Folder 6	Monthly Reports, 1956-1957
Box 4, Folder 7	International Gas Engine Company/Power Mining Machinery Correspondence, 1910-1911
Box 5, Folder 1	Thomas J. Kehane Site Visit and Product Reports, 1926
Box 5, Folder 2; Map-folder 1	Purchase Agreements and Proposals, 1897-1937
Box 5, Folder 3	Stockholder Reports, 1936-1960

Box 5, Folder 4	Employee Benefit Association, 1923-1930
Box 5, Folder 5	Budget Files and Memoranda, 1928-1930
Box 5, Folder 6	Electric Machinery Company Employee Handbook, undated
Box 5, Folder 7	Feed Water Heating in Locomotives, 1918-1921
Box 5, Folder 8	Clippings, 1856-1958
Box 5, Folder 9	Product Testimonials, 1910, undated
Box 5, Folder 10	Diesel Engine Product List, 1941
Box 5, Folder 11	Sales and Product Department Circulars, 1950-1956
Box 5, Folder 12	Report on Shop Tests of 2400 I.H.P. Worthington Marine Diesel Engine, undated
Box 5, Folder 13	Product Specifications, 1920-1923
Box 5, Folder 14	Worthington Price Book #357, 1920-1955
Box 5, Folder 15	Worthington Price Book #357, 1920-1955
Box 6, Folder 1	Worthington Price Book #357, 1920-1955
Box 6, Folder 2-3	New Orleans Sales Office Reference Binder, 1933-1950
Box 6, Folder 4	Sales Convention at Deane Works of Holyoke, 1911
Box 6, Folder 5	Worthington and Unaflo Steam Engine Articles and Correspondence, 1919-1963
Box 6, Folder 6	Sales Department Correspondence, 1894-1918
Box 6, Folder 7	Condenser Department Book Prints, 1894
Box 6, Folder 8	Special Condenser Design, 1926-1927
Box 6, Folder 9	Worthington Pump and Machinery Corporation Stock Circular, 1929
Box 6, Folder 10	C.G. Hildreth Memoranda, 1886-1895
Box 6, Folder 11	ASME Annual Meeting and Worthington Factory Tour, 1905
Box 6, Folder 12	The Co-operative Wage System, 1914

Box 6, Folder 13	Cooperative Management Conference Minutes, 1919
Box 6, Folder 14	Employee Obituary Clippings, 1945-1955
Box 6, Folder 15	Worthington Employees' Novelty Dance Press Release, 1920
Box 6, Folder 16	Feedwater Heater Blueprint, 1892
Box 6, Folder 17	Gas Engine Compressor Blueprints, 1930
Box 7, Folder 1	Industrial Management Course Workbooks, 1919
Box 7, Folder 2; Map-folder 1	Pump Blueprints, 1906-1926
Box 7, Folder 3	General Electric Miscellaneous Turbine Patents Volume 5, 1913-1915
Box 7, Folder 4	C.H. Wheeler Company Patents, 1906-1926
Box 7, Folder 5-6	Gas Engine Patents Volume 2, undated
Box 44, Folder 8-9; Box 45, Folder 1	Worthington Pump and Machinery Corporation Statistics, 1919-1923

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Series 3: Publications, 1872-1982

Scope and Contents: This series is made up of the various publications in the collection. Publications created by the Worthington Corporation and its various subsidiaries, as well as external publications maintained by the Corporation for reference purposes, are represented. A large majority of this series is made up of trade literature, including promotional material, product manuals and information booklets on Worthington products.

Subseries 3.1: Trade Literature, 1872-1981

Scope and Contents: This subseries is made up of the collection's trade literature. It includes materials produced by the Worthington Corporation and its subsidiaries, as well as its competitors. It contains promotional pamphlets, trade catalogs, and other materials printed to commemorate the use of Worthington products at significant events, such as the use of Worthington water pumps produced for the Louisiana Purchase Exposition of 1904.

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Box 7, Folder 8	Bethlehem Shipbuilding Corporation, 1925
Box 8, Folder 1	Blake and Knowles, 1897
Box 8, Folder 2	Blake and Knowles, 1899
Box 8, Folder 3	Blake and Knowles, 1902
Box 8, Folder 4	Blake and Knowles, 1903
Box 8, Folder 5	Blake and Knowles, 1906
Box 8, Folder 6	Blake and Knowles, 1908
Box 8, Folder 7	Blake and Knowles, 1909
Box 8, Folder 8-10	Blake and Knowles, 1911-1911 Language: Some materials in this file are in Spanish.
Box 8, Folder 11	Blake and Knowles, 1912
Box 8, Folder 12	Blake and Knowles, 1913
Box 8, Folder 13	Blake and Knowles, 1914
Box 9, Folder 1	Blake and Knowles, 1915
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Box 9, Folder 4-5	Blake and Knowles, 1918
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Box 10, Folder 2	Bound Catalogs, 1906-1909
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Box 13, Folder 8	Deane, 1917
Box 13, Folder 9	Deane, 1918
Box 13, Folder 10	Deane, 1919
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Box 14, Folder 9	International Gas Engine Company, 1916-1922
Box 14, Folder 10	International Gas Engine Company, undated Language: Some materials in this file are in Spanish.
Box 14, Folder 11	Laidlaw, Dunn and Gordon, 1901
Box 14, Folder 12	Laidlaw, Dunn and Gordon, 1904
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Box 16, Folder 1	Mueller Climatrol and L.J. Mueller Furnace Company, 1942-1957
Box 16, Folder 2	National Transit Pump and Machine Company, undated
Box 16, Folder 3	Official Reports of Various Duty Trials of the Gaskill Pumping Engine, 1891
Box 16, Folder 4	Pompes Centrifuges L. Durant, 1913 Language: Materials in this file are in French.
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Box 24, Folder 13	Worthington-Simpson, undated
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Subseries 3.2: Instructional Manuals, 1926-1948

Scope and Contents: This sub-series is made up of instruction manuals produced for the installation and operation of Worthington products.

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Box 25, Folder 8	Type LCE Angle Gas Compressor Operating Manual, undated
Box 25, Folder 9	Automatic Priming Monobloc Pump Instruction Manual, undated

Subseries 3.3: Newsletters, 1892-1964

Scope and Contents: This sub-series is made up of company newsletters produced by the various works owned by Worthington, as well as newsletters produced and distributed throughout the company.

Box 25, Folder 10	Henry R. Worthington Bulletin, 1892-1895
Box 25, Folder 11-12	Interoffice and Sales Bulletin, 1904-1905
Box 25, Folder 13; Box 26, Folder 1-2	Deane News, 1919-1926
Box 26, Folder 3	Feathervalve News, 1920-1925
Box 26, Folder 4-5	Simplexities, 1920-1926
Box 26, Folder 6	Worthingtonian, 1921
Box 26, Folder 7	The Worthy Spirit, 1942
Box 26, Folder 8	Worthite News, 1944-1945
Box 26, Folder 9	Worthington Compressor and Engine Division News Letter, 1959-1960
Box 26, Folder 10	Worthington News (I), 1929-1931
Box 26, Folder 11	Worthington News (II), 1945-1964

Subseries 3.4: Internal Publications, 1919-1982

Scope and Contents: This series consists of event programs, employee handbooks, conference proceedings and telephone directories.

Box 26, Folder 12	United States Service Roll of Honor of Employees of Worthington, 1919
Box 26, Folder 13	The First American , 1924
Box 26, Folder 14	Worthington Centrifugal Pump Conference Proceedings, 1925

Box 27, Folder 1-4	Telephone Directories, 1930-1962
Box 27, Folder 5	Ampere Works Shop Tour Program, 1957
Box 27, Folder 6	Buffalo Old Timers Banquet Programs, 1956-1960
Box 27, Folder 7	Heat-Power Turbo Refrigeration: A Design Study, 1957
Box 27, Folder 8	Austin C. Ross Retirement Program, 1958
Box 27, Folder 9	Worthington Horizontal Cross Compound Pumping Engine Mechanical Engineering Landmark Program, 1982
Box 27, Folder 10	Prospective Employee Handbook, undated
Box 27, Folder 11	Rock Drilling Machines, Drill Steels and Drill Steel Machinery by George H. Gilman, undated

Subseries 3.5: External Publications, 1884-1947

Scope and Contents: This sub-series consists of external publications retained by the Worthington Corporation and included in this collection. It includes research papers, event programs and trade magazines.

Box 28, Folder 1	"Pumping Machinery Ancient and Modern", 1894
Box 28, Folder 2	Capacity Test of a Unique Form of Air Pump, 1900
Box 28, Folder 3	"The Double-Acting, Two-Cycle Oil Engine" Lecture by O.E. Jorgensen, 1925
Box 28, Folder 4	Power Magazine 50th Anniversary Issue, 1934
Box 28, Folder 5	Harrison, New Jersey Centennial Celebration Program, 1940
Box 28, Folder 6	"Henry R. Worthington and His Influence upon American Industry" Lecture by Clarence E. Searle, 1947
Box 28, Folder 7	Mason-Neilan Regulator Company History, circa 1956
Box 28, Folder 8	Natural Gas Lines vs. Motor-Driven Centrifugal Blowers, undated
Box 45, Folder 5	Worthington Coverage in Mining Herald and Collier Engineer, 1884

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Series 4: Photographs, 1840-1964

Scope and Contents: This series consists of the various black and white photographs, airbrushings and illustrations maintained by the Worthington Corporation. They document many aspects of the company's history and products. Most of the photographs are unlabeled product photographs, mostly taken for catalogs. The series also contains photographs documenting work at the various Worthington Works sites. These include both interior and exterior photographs of factories and photographs of employees. Included in these employee photographs are several showing racially integrated factory floors.

The numbered photographs at the beginning of this series were retained along with their file listing. The series also contains portions of a numbered series of photographs and airbrushings of products produced at the Blake and Knowles plant. These products include diesel engines, power cylinders and marine engines and have been arranged based on their product serial number.

Box 28, Folder 9	Photographic Index, 1914
Box 28, Folder 10	1. Simplex "A" Horizontal Piston, 1914
Box 28, Folder 11	2. Simplex "A" Horizontal Plunger, 1914
Box 28, Folder 12	3. Blake Single Horizontal Piston and Type M, 1914
Box 28, Folder 13	4. Blake Double Tappet, 1914
Box 28, Folder 14	5. Blake Single Horizontal Plunger, 1914
Box 28, Folder 15	6. Knowles Single Horizontal Piston, 1914
Box 28, Folder 16	7. Knowles Single Horizontal Plunger, 1914
Box 28, Folder 17	8. Filter Press, 1914
Box 28, Folder 18	9. Magma, 1914
Box 28, Folder 19	10. Ammonia, 1914
Box 28, Folder 20	11. Vertical Simplex Piston and Plunger, Knowles "melter pan", 1914
Box 28, Folder 21	12. Artesian and deep well, steam and power, 1914
Box 28, Folder 22	13. Sinking, 1914
Box 28, Folder 23	14. Wrecking Pumps, 1914
Box 28, Folder 24	15. Horizontal Piston Pressure and Filter Press, 1914
Box 28, Folder 25	16. Horizontal Piston Tank and Light Pressure Ballast, 1914

Box 28, Folder 26	17. Horizontal Piston Separate Cylinder, 1914
Box 28, Folder 27	18. Horizontal Piston Double Cap (pressure, tank and ballast), 1914
Box 29, Folder 1	19. Horizontal Piston Slush, 1914
Box 29, Folder 2	20. Horizontal Piston Juice and Molasses, 1914
Box 29, Folder 3	21. Horizontal Plunger, outside end packed, 1914
Box 29, Folder 4	22. Horizontal Plunger, Centre Packed, 1914
Box 29, Folder 5	23. Vertical Piston Pressure and Tank, 1914
Box 29, Folder 6	24. Vertical Plunger Centre Packed, 1914
Box 29, Folder 7	25. Vertical Piston Ballast, 1914
Box 29, Folder 8	26. Vertical Piston "L.O." and Launch, 1914
Box 29, Folder 9	27. Underwriter Fire, 1914
Box 29, Folder 10	28. Fire Boat, 1914
Box 29, Folder 11	29. Single Compound Horizontal Piston, 1914
Box 29, Folder 12	30. Single Compound Horizontal Plunger, 1914
Box 29, Folder 13	31. Single and Duplex Triple Compound, 1914
Box 29, Folder 14	32. Duplex Compound Horizontal Piston, 1914
Box 29, Folder 15	33. Duplex Compound Horizontal Inside Plunger, 1914
Box 29, Folder 16	34. Duplex Compound Vertical - also single and cross compound, 1914
Box 29, Folder 17	35. Duplex Compound End Packed Plunger, 1914
Box 29, Folder 18	36. Duplex Compound End Packed Plunger, 1914
Box 29, Folder 19	37. Single Horizontal Piston, 1914
Box 29, Folder 20	38. Single Horizontal Magma, 1914
Box 29, Folder 21	39. Duplex Horizontal Piston, 1914
Box 29, Folder 22	40. Duplex Horizontal Plunger, 1914

Box 29, Folder 23	41. Vertical Triplex and Single and Duplex Hand Test Pump, 1914
Box 29, Folder 24	42. Horizontal Triplex, 1914
Box 29, Folder 25	43. Express, 1914
Box 29, Folder 26	44. Single Horizontal Piston, 1914
Box 29, Folder 27	45. Suplex Horizontal Piston and Plunger, 1914
Box 29, Folder 28	46. Cross Compund Duplex Engines, 1914
Box 29, Folder 29	47. Simplex Style "A" Horizontal, 1914
Box 29, Folder 30	48. Simplex Style "A" Horizontal with Jet Con, 1914
Box 29, Folder 31	49. Knowles Single Horizontal, 1914
Box 29, Folder 32	50. Knowles Single Horizontal with Jet Condenser, 1914
Box 29, Folder 33	51. Blake Single Horizontal, 1914
Box 29, Folder 34	52. Blake Single Horizontal with Jet Condenser, 1914
Box 29, Folder 35	53. Single Horizontal Double Tappet, 1914
Box 29, Folder 36	54. Single Horizontal Compound with Jet Condenser, 1914
Box 29, Folder 37	55. Duplex Horizontal with Jet Condenser, 1914
Box 29, Folder 38	56. Vertical Single, Double-Acting, Beam, Direct-Acting and Flywheel, 1914
Box 29, Folder 39	57. Featherweight and Suction Valveless, 1914
Box 29, Folder 40	58. Vertical Simplex Beam Air, 1914
Box 30, Folder 1	59. Vertical Twin Beam Air, 1914
Box 30, Folder 2	60. Vertical Twin Beam Air with Condensor, 1914
Box 30, Folder 3	61. Vertical Twinplex Beam Air, 1914
Box 30, Folder 4	62. Single Horizontal Flywheel, 1914
Box 30, Folder 5	63. Duplex Horizontal Flywheel, 1914
Box 30, Folder 6	64. Single Horizontal Flywheel Sweet Water, 1914

Box 30, Folder 7	65. Vertical Flywheel Suction Valveless, 1914
Box 30, Folder 8	66. Horizontal Power Driven, 1914
Box 30, Folder 9	67. Vertical Power Driven, 1914
Box 30, Folder 10	68. Horizontal Combined Air and Circulating Direct-Acting, 1914
Box 30, Folder 11	69. Vertical Combined Air and Circulating Simplex Beam, 1914
Box 30, Folder 12	70. Flywheel Combined Air and Circulating, 1914
Box 30, Folder 13	71. Spirojector Condenser, 1914
Box 30, Folder 14	72. Single Horizontal Centre Crank Steam-Driven "L.V." Type, 1914
Box 30, Folder 15	73. Single Horizontal Straight Line Steam Driven "L.V." "C," etc., 1914
Box 30, Folder 16	74. Horizontal Two Stage Steam and Power Driven, 1914
Box 30, Folder 17	75. Single Horizontal Steam Driven Type "C", 1914
Box 30, Folder 18	76. Single Horizontal Steam and Power Driven Type "E", 1914
Box 30, Folder 19	77. Duplex Horizontal Cente Crank Steam Drives, 1914
Box 30, Folder 20	78. Single and Duplex Horizontal Power Driven, 1914
Box 30, Folder 21	79. Vertical Steam and Power Driven "L.V." "C" "E," etc., 1914
Box 30, Folder 22	80. Parts, 1914
Box 30, Folder 23	81. Single Horizontal Steam Driven Climax, 1914
Box 30, Folder 24	82. Duplex Horizontal Steam Driven Climax, 1914
Box 30, Folder 25	83. Single Horizontal Two and Three Stage Steam Driven Climax, 1914
Box 30, Folder 26	84. Duplex Horizontal Two and Three Stage Steam Driven Climax, 1914
Box 30, Folder 27	85. Single Horizontal Power Climax, 1914
Box 30, Folder 28	86. Duplex Horizontal Power Climax, 1914
Box 30, Folder 29	87. Single Horizontal Two and Three Stage Power Climax, 1914
Box 30, Folder 30	88. Duplex Horizontal Two and Three Stage Power Climax, 1914

Box 30, Folder 31	89. Single Vertical Garage, One and Two Stage, 1914
Box 30, Folder 32	90. Duplex and Triplex Garage, One and Two Stage, 1914
Box 30, Folder 33	91. Gas Compressors and Ammonia, 1914
Box 30, Folder 34	92. Direct-Acting Blowers, 1914
Box 30, Folder 35	93. Vertical Compressors, 1914
Box 30, Folder 36	94. Blake Single Steam and Power Driven, 1914
Box 30, Folder 37	95. Knowles Single Steam and Power Driven, 1914
Box 30, Folder 38	96. Blake Duplex Steam and Power Driven, 1914
Box 30, Folder 39	97. Knowles Duplex Steam and Power Driven, 1914
Box 31, Folder 1	98. Air Hoists and Reheaters, 1914
Box 31, Folder 2	100. Closed Marine Heaters, 1914
Box 31, Folder 3	101. Vertical Engines, 1914
Box 31, Folder 4	102. Pumps and Receivers, 1914
Box 31, Folder 5	103. Fuel Oil Systems, 1914
Box 31, Folder 6	104. Centrifugal and Volute Pumps, 1914
Box 31, Folder 7	105. Intensifiers and Accumulators, 1914
Box 31, Folder 8	106. Core Wire Straighteners and Foundry Appliances, 1914
Box 31, Folder 9	107. Automatic Exhaust Relief and Back Pressure Valves, 1914
Box 31, Folder 10	108. Evaporators and Distillers, 1914
Box 31, Folder 11	112. Sugar House Machinery, 1914
Box 31, Folder 12	113. Pumps with Boilers, Stationary and Portable, 1914
Box 31, Folder 13	114. Pump Details, 1914
Box 31, Folder 14-17; Box 32, Folder 1-6; Box 33, Folder 1-3	Product Photographs, undated

Box 33, Folder 4-5	Blake and Knowles Pumping Machinery Product Catalog, circa 1907
Box 33, Folder 6	Deane of Holyoke Pumps, undated
Box 33, Folder 7	Diesels Produced by Buffalo Works, circa 1928
Box 33, Folder 8	Early Worthington Pumps, undated
Box 33, Folder 9	First Pump in the Washington D.C. Water System, undated
Box 34, Folder 1	Harrison Works Products, 1917
Box 34, Folder 2	Hazelton Works Products, Interiors and Blueprints, 1911
Box 34, Folder 3	Holly Pumping Engine Photographs and Illustrations, undated
Box 34, Folder 4	Ingeco Engines and Plant, undated
Box 34, Folder 5-6	Laidlaw, Dunn, Gordon Works Product Catalog, circa 1907
Box 34, Folder 7	Large Condenser Built for Consolidated Edison, 1931-1932
Box 34, Folder 8	Mounted Compressor Proofs, 1930s
Box 34, Folder 9; Box 35, Folder 1	Power and Mining Works Products, undated
Box 35, Folder 2	Power and Mining Company Products and Cudahy, WI Works, undated
Box 35, Folder 3	Snow Gas Engines, 1935
Box 35, Folder 4	Snow Gas Engines, undated
Box 35, Folder 5	Snow Works Pumps, undated
Box 35, Folder 6	Snow Works Products and Installations, undated
Box 35, Folder 7	Worthington Steam Pumping Engine, 1859
Box 35, Folder 8; Box 36, Folder 1	Worthington Diesel Engines, 1934
Box 36, Folder 2	Moore Steam Turbine Corporation (Wellsville, New York) Products, undated
Box 36, Folder 3; Box 46, Folder 3-5; Box 47, Folder 1	Pump Illustrations, 1862-1937, undated

Box 36, Folder 4-6	Installed Worthington Products, 1911-1951, undated
Box 37, Folder 1-4	Installed Worthington Products, 1911-1951, undated
Box 37, Folder 5	Boston, Massachusetts Pumping House with Worthington Pumping Engines, undated
Box 37, Folder 6	Centrifugal Pumps Installed for the W.P. and M. Corporation in Harrison, N.J., undated
Box 37, Folder 7	Compound Direct-Acting Pumping Engines, 1895
Box 37, Folder 8	Copies of Blueprint Drawings from McNeil Street Pumping Station, Shreveport, Louisiana (Copied by HAER, 1982), undated
Box 37, Folder 9	Duplex Pumping Engine at the Newark, New Jersey Water Works, 1870
Box 37, Folder 10	Duplex Steam Pumps, 1870
Box 37, Folder 11	Figure of Worthington Pump and Addison Variable Exhaust, 1861
Box 37, Folder 12	Gaskill's Compound Pumping Engine, undated
Box 37, Folder 13	First Worthington Piston-Type Meter, circa 1895
Box 37, Folder 14	Hydraulic Turbine Installations, 1921
Box 37, Folder 15	Duplex Pumping Engine Displayed at the Paris Exposition, 1878
Box 37, Folder 16	International Worthington Installations, undated
Box 37, Folder 17	Naval Vessels with Worthington Pumps, circa 1943
Box 37, Folder 18	Paris Exposition Pumps, 1889
Box 37, Folder 19	Pump Etching, undated
Box 37, Folder 20	Vertical Pumping Engine Displayed at the Columbian Exposition, 1893
Box 38, Folder 1-3; Box 46, Folder 1	Employees, 1901-1951, undated Notes: Included in this file are several photographs showing that the Worthington Works were racially integrated. The photographs appear to be from the period around the Second World War.
Box 38, Folder 4	Factory Employees, 1945
Box 38, Folder 5	Reprints of Employee Photographs, 1919-1945
Box 38, Folder 6	Student Placement Program Group Photographs, 1922-1964

Box 38, Folder 7	International Trainees, 1945-1946
Box 38, Folder 8	J.F. Grace Photographs, 1922-1925
Box 38, Folder 9	Molten Metal at the Harrison Works, undated
Box 38, Folder 10	Factory Exteriors, 1888-1931, undated
Box 38, Folder 11	Brooklyn Works Exterior, circa 1875
Box 38, Folder 12	Negative Transparency of the Brooklyn Works as it appeared in 1855, undated
Box 38, Folder 13	Brooklyn Works Interior, 1880
Box 38, Folder 14-15	Deane Works of Holyoke, Massachusetts, 1917
Box 39, Folder 1	Construction of Deane Works and Exterior, 1917-1918
Box 39, Folder 2	"Winning the War: Activities of Deane Works" and Pump Photographs, 1917-1920
Box 39, Folder 3	Deane Works During the War Period, 1917-1920
Box 39, Folder 4	Denver Rock Drill and Machinery Company Interior, 1911
Box 39, Folder 5	Epping-Carpenter Works, undated
Box 39, Folder 6	Factory Interiors, undated
Box 39, Folder 7-8	Construction of Commercial Test Stand at Harrison Works, 1951-1952
Box 39, Folder 9	Harrison Works Photographs and Captions, 1917-1918
Box 39, Folder 10	Harrison Works Interior, 1917
Box 40, Folder 1	Harrison Works Annual Report Pictorial Supplement, 1930
Box 40, Folder 2	Harrison Works Plant Interiors, 1931
Box 40, Folder 3	Harrison Works Renovations, 1948
Box 40, Folder 4	Harrison Works Interior and Exteriors, undated
Box 40, Folder 5	Ingeco Works Interior and Exteriors, 1918
Box 40, Folder 6	The Jeanesville Iron Works Company, circa 1911

Box 40, Folder 7	Laidlaw Works of Cincinnati, Ohio, 1919-1920
Box 40, Folder 8	Laidlaw Works Interior Views, undated
Box 41, Folder 1	James Simpson Co. Limited, undated
Box 41, Folder 2	Snow Works of Buffalo Interior, circa 1912
Box 41, Folder 3	Snow Works as it Appeared in 1918, undated
Box 41, Folder 4	Worthington Works Storage Building under Construction, undated
Box 41, Folder 5	Damaged Photographs, circa 1915
Box 45, Folder 6	Henry R. Worthington House, circa 1900
Box 45, Folder 7	Sketch of Henry R. Worthington, undated
Box 45, Folder 8	George Jesse Foran, undated
Box 45, Folder 9	Stock of Completed Products, undated
Box 45, Folder 10	Installed Worthington Products, 1934-1946, undated
Box 45, Folder 11	Illustrations of Feed Water Heater Built for Paris, New York and Chicago, undated
Box 45, Folder 12	Exposition Photographs, 1876-1904
Box 46, Folder 2	Condenser Department Advertisement with Branch Managers, 1905
Box 47, Folder 2	Early Illustrations of the Holly Works, undated
Box 47, Folder 3	Warehouse Schematic Illustrations, undated
Box 47, Folder 4	Brooklyn Works Heavy Machinery Shop, 1893
Box 47, Folder 5	Engineering Record of the Original Henry R. Worthington Hydraulic Works, 1921
Box 47, Folder 6	Pump and Boat Designs by Henry Worthington, 1840-1850
Box 47, Folder 7	Blake Pumps B-2077 - B-3026, circa 1920s
Box 48, Folder 1	Blake Pumps B-3027 - B-3058, circa 1920s
Box 48, Folder 2	Blake Pumps B-3060 - B-3170, circa 1920s

Box 48, Folder 3	Blake Pumps B-3171 - B-3181, circa 1920s
Box 49	Jeanesville Plant Photo Album, 1915
Box 50, Folder 1	Blake Pumps B-3182 - B-3217, circa 1920s
Box 50, Folder 2	Blake Pumps B-3218 - B-3250, circa 1920s
Box 50, Folder 3	Blake Pumps B-3251 - B-3256, circa 1920s
Box 51, Folder 1	Blake Pumps B-3257 - B-3261, circa 1920s
Box 51, Folder 2	Blake Pumps B-3262 - B-3296, circa 1920s
Box 51, Folder 3	Blake Pumps B-3299 - B-3329, circa 1920s
Box 54, Folder 1	Blake Pumps B-3352 - B-3442, circa 1920s
Box 52, Folder 2	Blake Pumps B-3433 - B-3476, circa 1920s
Box 52, Folder 3	Blake Pumps B-3480 - B-3526, circa 1920s
Box 53, Folder 1	Blake Pumps B-3527 - B-3557, circa 1920s
Box 53, Folder 2	Blake Pumps B-3558 - B-3571, circa 1920s
Box 53, Folder 3	Blake Pumps B-3596 - B-8915, circa 1920s
Box 54, Folder 1-3	Unnumbered Blake Engines, circa 1920s
Box 54, Folder 4	Miscellaneous photographs, 1925, undated

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Series 5: Sketchbooks and Notebooks, 1882-1964

Scope and Contents: This series contains sketchbooks and notebooks used by various Worthington employees, including Charles C. Worthington, Henry Worthington's son and successor as company President, and George J. Foran, an employee at the company's Boston offices.

Box 41, Folder 6	Worthington Corporation's Acquisition of Charles C. Worthington's Sketchbooks, 1964
Box 41, Folder 7	Sketchbook, 1882-1891
Box 41, Folder 8	Sketchbook, 1883-1884
Box 42, Folder 1	Sketchbook, 1884-1885
Box 42, Folder 2	Sketchbook, 1885-1889
Box 42, Folder 3	Blake and Knowles Reference Catalog, circa 1895
Box 42, Folder 4	George J. Foran Sketchbook, 1898-1904
Box 42, Folder 5	H.M. Chase's Deane Products Catalog, 1900
Box 43, Folder 1-3	George J. Foran Sketchbook, circa 1906
Box 43, Folder 4	Chart and Table Book, undated
Box 43, Folder 5	George J. Foran Sketchbook, undated
Box 43, Folder 6	George J. Foran Sketchbook of Engine Images, undated

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