

Manufacturing Category

Bomag Collection  
PC 992.079  
Clark County Historical Society

Processed by:  
G. B. Simon II – volunteer  
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## Historical Notes

O. S. Kelly Company, founded in 1882, started the Kelly-Springfield Road Roller Company in 1892 and became a division of the company in 1902.

In 1914 Kelly-Springfield and Buffalo Pitts Company merged to form The Buffalo-Springfield Company.

C. S. Johnson started his company in 1921 in Champagne, Illinois and a branch in Stockton, California.

Koehring Manufacturing Company was organized in 1907 in Milwaukee, Wisconsin. The Koehring Road Division acquired in 1956 the Buffalo-Springfield Company and the Johnson Company which became a part of the Excavation Group. In 1980, Koehring was purchased by AMCA of New Hampshire.

Stardrill-Keystone Company was founded in 1882 in Beaver Falls, Pennsylvania and becoming a subsidiary of Buffalo-Springfield Division in 1959. Star Drill Machine Company was founded in the late 1870s in Akron, Ohio. They merged with the Koehring Company several years later. The Stardrill-Keystone Company moved its operations to Enid, Oklahoma in 1966.

Flaherty Manufacturing Company was founded in 1954 in Pocatello, Idaho and became a branch of Buffalo-Springfield Division in 1959. Flaherty was sold in 1968 and changed its name to W. H. Manufacturing.

Bomag GmpH was organized in Boppard/Rhine, Germany in 1957. They were purchased by Koehring in 1970. The Buffalo-Springfield roller line was renamed in 1976 becoming the Buffalo-Bomag Road Roller Division and transferred its operations to the Bomag Company.

Frank Machine Company was purchased in 1966 and became a division of the Koehring Company.

Pegasus Laboratories of Berly, Michigan joined the Koehring Company on January 4, 1968.

BOMAG Americas, Inc., located in Illinois, moved from Springfield in 1990.

The Bomag Corporation was acquired by the Fayat Group of Paris, France in 2004.

## A History of Bomag

Often great companies begin in a manner similar to that of a mighty river. From a variety of creeks and streams their sources unite. These tributaries create a new identity which becomes a new entity. Such is the case of Bomag GmbH. This chronicling of events trace its origin from Rhineland, Germany to its present worldwide locations. During its history, it joined established organizations and through purchases as well as partnerships became the manufacturing giant it is today. Part of Springfield's production history is shared with Bomag.

O. S. Kelly Company began producing threshing machines, then a line of steam rollers were added and finally the production of piano plates which began in 1898 (Rhodes and Spalding, p. 232) In 1889, the O. S. Kelly Company began manufacturing steam rollers, one of the first in the nation. About the same time similar products were being made by the Buffalo Pitt Company of New York. (Rhodes and Spalding, p.117) Prior to the 1880s, no road rollers were manufactured in the United States. The few that were used came from England. Kelly introduced a line of rollers in 1892 and changed the name of their production department to Kelly-Springfield Road Roller Company. Working with a British engineer, Edward T. Wright, the Kelly Company improved their line of steam powered rollers. During its first year, seven rollers were produced. By 1902, Kelly-Springfield became a division of the Kelly Company. They went on to found the Kelly-Springfield Truck Company and what later became the Kelly-Springfield Tire Company. (Stafford, p. C3) On November 10, 1999 they became a subsidiary of Steinway Musical Instruments Inc.

The Kelly-Springfield produced a small roller for John D. Rockefeller in 1899 for use on his estate in New York. After 31 years it was exchanged for one with a gas engine manufactured by the Buffalo-Springfield Roller Company. The five ton roller was brought to Springfield and displayed in the factory's yard. It served as an example of how the machines had been improved over the years. During World War II, it was sold for scrap. Carl F. Greiner, the president of the company, often stated that he hoped it was made into a cannon. His father, Charles, had brought the Buffalo-Pitts Company to Springfield. (Buffalo-Springfield Roller Company, p. 2)

Both gasoline and diesel powered the rollers following the Second World War; several improvements were incorporated for use on asphalt surfaces. These rollers were favorites in the construction field and used throughout the United States and abroad.

In 1902, the president of the Buffalo Pitt Company, Charles A. Greiner and another businessman purchased both companies and established two steam roller plants. The first gas-powered tandem roller built in the United States was developed between 1907 and 1908, in Springfield. It took until 1910, for the first order to be received. During that year, the company produced two rollers a day, every day of the year. At the time, the largest facility of its kind in the world was located on Kenton Street, Springfield, Ohio. Steam roller components were sold to the Kelly Company as early as 1913 by the Buffalo

Pitt Company. This saved duplication in the production of parts. (Rhodes and Spalding, p. 118)

The Koehring Machine Company founded on March 16, 1907, was started with an initial investment of \$1,200 from three men (\$400 each). They produced concrete mixers. In 1921, the name was changed to Koehring Crain and Excavator Group.

The Buffalo operation was moved to Springfield, Ohio in 1914. A sole stockholder would not agree with the arrangement so the organization was called the Buffalo-Springfield Company instead of Buffalo-Springfield. Both rollers were built in the same plant on Kenton Street. Buffalo Pitts continued to build their rollers in Buffalo, New York with only slight differences. After 14 years, the two companies merged in 1916 to become the Buffalo-Springfield Road Roller Company. (Rhodes and Spalding, p. 117)

Buffalo Pitts invented and then added a scarifier to their rollers in 1912. It was mounted on the left side and referred to as a “beam” scarifier measuring two feet in width. A rear-mounted one was added in 1916 with a width of five feet. Both pieces were steam operated. (Drake & Rhode, p. 38)

The Buffalo plant closed in 1921. That year the “hold-out” stockholder agreed to the merger and Buffalo-Springfield became the new trademark. “Buffalo-Springfield was the most widely recognized name in all of [the] American Road Rollers.” (Drake & Rhode, p. 32)

Charles S. Johnson founded the C. S. Johnson Company in 1921 in Champagne, Illinois. They later had operations in Stockton, California. It first issued stock in January 1929. In December, 1936, Koehring bought controlling shares and the company became a fully-owned subsidiary in 1942. In 1953, facilities in Brantford, Ontario were acquired. (Buckler, p. 2) [Of local interest—in 1954 the Ohio Turnpike was begun and the Johnson Company furnished about seventy percent of the batching equipment and the Koehring Company furnished the pavers.] (Buckler, p. 6)

In 1953, the Buffalo-Springfield Company developed the vibrating roller. This technology changed the industry. Buffalo-Springfield Company was purchased in 1956 by the Koehring Company

Formation of the Road Division of the Koehring Company occurred in 1956 when the C. S. Johnson and Buffalo-Springfield Divisions combined into a new organization. The two divisions continued to manufacture at their respective locations with the division’s headquarters located at the Buffalo-Springfield plant in Springfield, Ohio. (United-Dominion, p. 3)

Karl H. Schawamborn founded the Bomag GmbH of Boppard/Rhein, Germany [Bopparder Maschinenbaugesellschaft mbH] in 1957. He developed a new design for compaction technology. The first branch office opened in 1961 in Austria. Others

followed in China, United States, France, Italy, Great Britain, Canada, Japan and in 2002 in Hungary. Bomag (U.S. A.), p. 3.)

Through an acquisition in 1959, the Stardill-Keystone Company added a complete line of cable tools and rotary drilling equipment to the Buffalo-Springfield Division. Its manufacturing operations were moved to Enid, Oklahoma in 1966. That same year, the Franks Machine Company was purchased and became a branch of Buffalo-Springfield. (Rhode & Spalding, pp. 229-230)

Also in 1959, the Flaherty Manufacturing Company merged with the Koehring Company and became a branch of the Buffalo-Springfield Division. The company was sold in 1968 and became W. H. Manufacturing who produced chip spreaders. (United-Dominion, p. 5)

A major diversification occurred in 1962 when a line of material handling equipment was added. It was designed to address the needs of the air cargo market. Currently, the Cargo Systems line met all of the industry's needs as reported in 2006. (Wikipedia, p. 4)

Speed Star Drilling Rigs was assigned to the Franks Branch, which was a part of the Buffalo-Springfield Division. Franks joined the organization in 1966. (United-Dominion, p. 5)

Pegasus Laboratories, Berkley, Michigan voted to sell their assets and business to Koehring Company on January 29, 1968 for an undisclosed amount. They manufactured hydraulic equipment. The company joined Koehring's Fluid Power System Group which produced products in construction, plastics, metal working, paper, agriculture and material handling. (United-Dominion, p. 6)

In the late 1960s, Bomag needed a partner to help increase production so they could expand their market. They sought a financially strong company that would permit them to retain their business independence. Koehring was that company.

Bomag was bought in 1970 by the Koehring Company. The Buffalo-Springfield name and logo were retired in 1974. The company's name was changed to Buffalo-Bomag. With the merger of German, Canadian and American producers, Bomag became the largest manufacturer in the world. (Bomag Pamphlet)

On the 30 of October, 1970, the Koehring completed the acquisition of the Bomag Company. The business was sold for 315,000 common shares of Koehring stock and \$2,295,000 in cash. Thus began a financial partnership with of the Koehring Company. Bomag's distribution system resulted in greater marketing opportunities in the compaction and light construction fields. They were innovators in the field of dual drum vibratory compaction equipment. Through this sale, Koehring accessed manufacturing, sales and licensees in Germany, Austria, England, Canada, South America and Japan. (United-Dominion, p. 7)

December 1979, two million dollars was pledged by Springfield Commissioners as its share of the development cost for a 65-acre tract on the north side of Eagle City Road for the future site of Bomag manufacturing. (News-Sun, p. 9) In October 1980, Bomag

announced that they were cancelling the proposed 12.4 million dollar facility. The purchase of the Koehring Company by AMCA, a couple of weeks prior, had created concern for the company regarding the new project. Thomas Warren General Manager of Bomag said, "The company simply cannot justify expansion at this moment. We would hope in the near future to explore further expansion plans." (News-Sun, p. 6A) Four years later, the assembly plant was moved to Illinois.

In 1980, Air Movement & Control Association (AMCA) International Corporation; headquartered in Hanover, New Hampshire, a subsidiary of Dominion Bridges Company Ltd. (originally from Canada); purchased both Koehring and Bomag. AMCA was a worldwide producer of industrial, construction and engineering produces and services. (Freeman, p. 41)

Manufacturing in Springfield ceased in 1984 and the assembly and operations ended in April, 1990. Bomag moved to Kewanee, Illinois leaving about 60 workers unemployed. The company stated that the move would place the support functions closer to production thereby making a more effective process. (News-Sun, p. 6A)

Northwest Engineering acquired the Koehring Corp. from AMCA in 1987. That same year, they also acquired Terex and changed their name to Terex. (Freeman, p. 41)

Because of a downturn in profits, AMCA tried to sell Bomag in 1986. Their efforts were unsuccessful. In 1989, business improved significantly and all interest in selling was abandon. That same year AMCA moved its headquarters to Charlotte, North Carolina. A name change occurred in 1990 and United Dominion Industries became the new entity. (United-Dominion, p. 8)

From an original workforce of less than twenty people, the Bomag organization has grown to more than 1,800 worldwide. (Wikipedia, p. 3) The company's European headquarters is located in Boppard, Germany. In addition to this facility, Bomag has major manufacturing plants in Europe, North America and Asia as well as a growing number of subsidiaries around the world. Headquartered in Illinois, BOMAG Americas, Inc., serves both North and South American as the marketing and manufacturing facility for the company. Over fifty products are distributed to markets on these two continents. (Wikipedia, p. 4)

In December 2004, Bomag joined the Fayat Group which is headquartered in Paris, France. Fayat took over Bomag which was the market leader in soil and asphalt compaction equipment. They were number one in Europe and fifth worldwide for asphalt plants and third in Europe for road maintenance equipment. It was the beginning of a "dream team". Bomag continued to be a top innovator in its field [reported in 2010]. (Wikipedia, p. 4)

Being a worldwide compaction equipment leader, Bomag products are utilized in every climate and in a myriad of applications. They range from vibrator tampers and plate

compactors to recycling equipment and landfill compactors. It has one of the largest lines of compaction equipment in the world.

## References

A Company's History, Bomag (U.S.A.) AMCA International. Winter, 1982. Springfield, Ohio. [Pamphlet]

Bomag Corporate Office (2001). Various Compaction Equipment for Street Repair. [Brochure] Boppard/Rhein, Germany.

Buckler, H. E. (May, 1966). A History of the C. S. Johnson Division. Springfield, Ohio. pp. 1-15.

Buffalo-Springfield Roller Company. Draft copy. Undated and no author listed. pp. 1-4.

Drake, Raymond L. & Rhode, Robert T. (2001). Classic American Steamrollers 1871 – 1935 Photo Archive. Hudson, Wisconsin: Inconografix, pp. 32-49.

Freeman, Alan (1988, February 8). AMCA Posts Loss of \$178.5 Million for Fourth Quarter. Wall Street Journal. p. 41.

Rhode, Robert T., & Spalding, John F. (2011). The Tractor Encyclopedia, New Expanded Edition. Dayton, Ohio: BookFactory, pp. 222-238.

Stafford, T. (2012, July 2). The Steamroller City. Springfield News-Sun, pp. 21, 22.

Stafford, T. (2012, January 2). Springfield Man Featured in Tractor Encyclopedia. Springfield News-Sun, pp.C1, C3.

Staff writer (1978, February 9). Bomag Expansion Planned. Springfield News-Sun, p. 4.

Staff writer, (1979, December 14). City Planning Board Gives Endorsement to Pair of Federally-Funded Projects. Springfield News-Sun, p. 9.

Staff writer (1980, October 12). In Disappointment, a Light. Springfield News-Sun, p. 6A.

Various Compaction Equipment for Street Repair. Bomag Corporate Office (2001). Boppard/Rhein, Germany. [Brochure]

Wikipedia (2011, June 12). Bomag [on-line]. Available: <http://en.wikipedia.org/wiki/BOMAG>. pp. 1-4.

[www.companiesshistory/United-Dominion-Industries-Limited](http://www.companiesshistory/United-Dominion-Industries-Limited), pp. 2 - 8.

Introductory remarks given at a meeting which described the various Buffalo-Springfield equipment used for compaction. No date or author listed. pp. 1-5.



## Introduction

The Bomag Collection was obtained from a variety of sources; including some of the partnering companies, former employees, news articles and booklets acquired by the Heritage Center and individuals interested in preserving the history of Clark County. The material is divided into twelve series with a total of 320 files in the collection.

- Series I Historical material
- Series II Employees
- Series III Administration
- Series IV Publications:
- Series V Specific products publications
- Series VI Company procedures
- Series VII Product Operations/Reports
- Series VIII Marketing, sales and service
- Series IX Association presentations
- Series X Association/industry publications
- Series XI Product blueprints and drawings
- Series XII Miscellaneous Materials

On the following sheet is the complete listing of the categories and subcategories in this collection. All of the material has been placed into seven boxes. Next is the order in which the items have been arranged.

- Box 1 I - IVc
- Box 2 IVd
- Box 3 IVd - IVf
- Box 4 IVg - V
- Box 5 V - VIi
- Box 6 VII - XII
- Box 7 Large items

At the end of the finding aids, are copies of the Box Lists. It is hoped that these sheets will provide assistance in locating desired items.

## Scope and Content

- Series I Historical material
- Series II Employees
  - a. Contracts and benefits
  - b. In-house publications
  - c. Policies and procedures
- Series III Administration
  - a. Business and customer correspondences
  - b. Mr. Anthony
  - c. Mr. Steelman
  - d. Managers
- Series IV Publications: operation, instruction and service manuals; also parts catalogs
  - a. Bomag (Canada)
  - b. Bomag (Germany)
  - c. Buffalo-Springfield Roller Company
  - d. Buffalo-Springfield Roller/ Division of Koehring Company
  - e. Flaherty Manufacturing/ Division of Koehring Company
  - f. Johnson Operation/C. S. Johnson/ Division of Koehring Company
  - g. Koehring Road Division
  - h. Stardrill-Keystone Company/Keystone-Frank Company/ Division of Koehring Company
  - i. Twin Disc Clutch Company
- Series V Specific products publications
- Series VI Company procedures
  - a. Cost analysis
  - b. Data sheets
  - c. Lab work/Tests
  - d. Meetings
  - e. Press releases
  - f. Price lists
  - g. Production/Research and Development
  - h. Proposals and design concepts
  - i. Reports and authorizations
  - j. Specification sheets
- Series VII Product Operations/Reports
- Series VIII Marketing, sales and service
- Series IX Association presentations
- Series X Association/industry publications
- Series XI Product blueprints and drawings
- Series XII Miscellaneous Materials
  - a. Items
  - b. Newspaper articles
  - c. Photographs

Areas for further research and inquiry

A. When did the Brown Mading Division of Beaverton, Michigan, become a part of the Koehring Company?

B. When was Ko-Cal founded? Koehring/California; Located in Stockton and was a member of the Asphalt Pavement Association.

C. RayGo Inc. There were only a couple of references to this company. It was located at 615 West County Road, Minneapolis, Minnesota 55427 (612) 545-2546.

D. Did Frank Manufacturing combine with Stardrill-Keystone Company to form Keystone-Frank?

E. When was Ka-Me Tools acquired by the Koehring Company?

Contact information

BOMAG Americas, Inc.  
2000 Kentville Road  
Kewanee, Illinois 61443  
(800) 782-6624

O. S. Kelly Company  
318 East North Street  
Springfield, Ohio 45501  
(937) 322-4921

Koehring Cranes Inc.  
106 12<sup>th</sup> Street S. E.  
Waverly, Iowa 50677  
(319) 352-3920

Pegasus Laboratories  
No street address found  
Berkley, Michigan

Terex Cranes  
106 12<sup>th</sup> Street S. E.  
Waverly, Iowa 50677  
(319) 352-3920

United Dominion Industries Limited  
2300 One First Union Center  
Charlotte, North Carolina 28202  
(704) 347-6800

Founding Addresses

Bomag Maschinenbaugesellschaft GmpH  
5407 Boppard/Rhein,  
Germany  
Founded 1957

Buffalo Pitts Company  
Between Carolyn and Virginia Streets  
and the Eire Canal and Lener Street  
Buffalo, New York  
Founded 1877

Buffalo-Springfield Road Roller Company  
1210 Kenton Street  
Springfield, Ohio  
Founded 1914

C. J. Johnson Operation  
502 Kenwood Road  
Champagne, Illinois  
Founded 1921

O. S. Kelly Company  
West side of Limestone Street  
between North and Frey Streets  
Springfield, Ohio  
Founded 1882

Koehring Manufacturing Company  
1701 West Wisconsin Avenue  
Milwaukee, Wisconsin  
Founded 1907

## Definition of Terms

BAUMA is the world's largest construction machinery trade fair held every three years in Munich, Germany.

*IR* means Integrated Rotary.

*Mechanalysis* is a systematic method to measure vibrations of machinery.

*Scarifiers* were used to breakup soil or pavement and were mounted on either the left side or back of the roller. In some cases they were placed in both locations.

*Terrameter* is a compaction measurement used by Bomag for large-scale projects.

*Weldment* is a unit formed by welding together an assembly of pieces

*Vibroflotion* is a two motion system for the compaction of sand.

**Box List**  
Manufacturing Category – Bomag  
Box 1

Item Number                      Description

**I Historical material**

1. History of Buffalo-Springfield Roller Company, 1941-42.
2. A booklet, A Company's History, winter 1982.
3. History of Bomag in Springfield, 2012.
4. General history of B-S Company, no date listed.
5. History of the Johnson Division, no date listed.
6. History of O. S. Kelly. January 2, 2012.
7. News article, Springfield News-Sun, pp.21 and 22, July 2, 2001.

**II Employees**

- a. Contracts and benefits
  1. Booklets, employees' benefits plans, various dates listed.
  2. Booklets – working conditions between B-S C/B-S D and the AFL-CIO, 1946 – 1970, not complete.
  3. Booklets – working conditions between B-S C/B-S D and the AFL-CIO, 1971 – 1991, complete.
  4. Expense reporting materials, B-S D, various dates listed.
- b. In-house publications
  1. Koehring Company, 1967 – 1970.
  2. Koehring News, October, 1966, January, 1967, April, 1967, July, 1967 and September, 1970.
- c. Policies and procedures
  1. Vacation policy. B-S D, June 20, 1963.
  2. Procedures for planning projects, B-S D, August 11, 1966.

**III Administration**

- a. Business and customer correspondences
  1. Business correspondences, variety of letters and dates.
  2. Customers' correspondence, variety of letters and dates.
  3. Distributors' and dealers' correspondences, variety of letters and dates.
- b. Mr. Anthony
  1. Personal items and flow chart, Mark Anthony, variety of dates listed.
  2. Personal items, Mark Anthony, variety of dates listed. (Part 1)
  3. Personal items, Mark Anthony, variety of dates listed. (Part 2)
  4. Press release, C. W. Anthony, November 17, 1966.
  5. Proposals for mix plants, Mr. Anthony, March 1970.
- c. Mr. Steelman
  1. *Business Week*, December 4, 1965.

d. Managers

1. Correspondences, variety of letters, B-S D, variety of dates listed.
2. Koehring annual report – 1966.

**IV Publications**

a. Bomag (Canada)

1. Rollers, variety of models, no dates listed.
2. Slide presentation--landfill, no dates listed.
3. Compaction equipment, no dates listed.
4. Compactors, variety of models, no dates listed.

b. Bomag (Germany)

1. Compactors, variety of models, no dates listed.

c. Buffalo-Springfield Company

1. Impact rammers, variety of dates listed.
2. Operator's Manual (War Department), tandem, KT-16, no date listed.
3. Parts catalog and maintenance manual for tandem, 5-8 ton, KT-16, no date listed.
4. Parts list and instructions for tandems, KT-23, 24 and 25, no date listed. [Three copies]
5. Parts list and instructions for tandems, KT- 24C and 25C, no date listed.
6. Parts list and instructions for tandems, KT- 25E, no date listed.
7. Parts list for a three-wheel, 3½ - 5 ton, VM-12, no date listed.
8. Parts list for three-wheel, VM-16, no date listed. [Two copies]
9. Parts list for three-wheel, VM-17, no date listed.
10. Parts list for three-wheel, VM-18- 24, no date listed.
11. Operation/service manual, VM-18- 24, no date listed.
12. Parts lists of three-wheel, VM-22 - 25, no dates listed. [Cannot open one due to water damage]
13. Parts list for three-wheel, VM-23, no date listed. [Two copies]
14. Parts list for three-wheel, VM-27 – 30 and 31- 32, no date listed.
15. Parts list for three-wheel, VM-29, no dates listed. [Two copies]
16. Parts list for tandem, VT-6, no date listed.
17. Parts list for tandem, VT-6B, no date listed. [Two copies]
18. Parts list for tandem, VT-9, no date listed. [Two copies]
19. Parts list for 9-10 ton tandem, VT-9B and 10, no dates listed. [Two copies]
20. Parts list for tandems, VT-15, 21 and 30, no dates listed. [Two copies]
21. Parts list for tandems, VT-15, 21, 30 and TX-21, no dates listed. [Two copies. Cannot open one due to water damage]
22. Parts list for tandem, no date listed.
23. Parts list for three-wheel, 5 ton, no model listed, no date listed.

**Box List**  
Manufacturing Category – Bomag  
Box 2

Item Number            Description

**IV Publications**

d. Buffalo-Springfield Division

1. Catalog, variety of models, portable tandem rollers, no date listed.
2. Repair parts catalog and price list, January, 1961
3. Three-axle tandem, B-S D, no date listed.
4. Service Manual, SpeedStar Rotary Drill, No. 55-IR, no date listed
5. Service Manual, SpeedStar Rotary Drill, No. 72-IR, no date listed.  
[Two copies]
6. Service Manual, Mud Pump, no date listed. [Two copies]
7. Service Manual, Stabilizer, Model 733, no date listed. [Two copies]
8. Service Manual, Model 836, November 1964.
9. Service manual, 3W-10 and 12, January 1965.
10. Service Manual, Model LA, no date listed.
11. Service Manual, Model BW 201A, no date listed.
12. Service Manual, K-45, no date listed. [Two copies]
13. Service Manual, K-45A, no date listed.
14. Service Manual, K-550, no date listed.
15. Service Manual, tandem, 2-3 ton, KT-4, no date listed. [Two copies]
16. Service Manual, tandem, K-5 and 6, no date listed.
17. Service Manual, tandem, KT-7, no dates listed. [Two copies]
18. Service Manual, tandem, KT-7A and 8, no dates listed. [Two copies]
19. Service Manual, tandem, KT-7B and 8, no dates listed. [Two copies]
20. Service manual, KT-15A and 19A, no date listed. [Two copies]
21. Service Manual, KT-16B, 17B and 18B, no dates listed
22. Service Manual, KT-16C and 17C, no dates listed.
23. Service Manual, KT-16D and 17D, no dates listed.
24. Service manual, KT-19 and 20, no date listed.
25. Service manual, KT-19B, January 1963. [Two copies]
26. Service manual, KT-19B, no date listed.
27. Service manual, KT-24B and 25B, no date listed.
28. Service manual, KT-24D and 25D, no date listed. [Two copies]
29. Service manual, KT-24E, March 1963 and 1969. [Two copies]
30. Service Manual, KX-16C, no dates listed.
31. Service Manual, KX-25D, no dates listed.



**Box List**  
Manufacturing Category – Bomag  
Box 3

Item Number                      Description

**IV Publications**

d. Buffalo-Springfield Division

1. Service manual, PSR-9, 10 and 14, May 1965.
2. Service manual, PSR-9 and 14, no date listed.
3. Service Manual, Self-Propelled, PSR-C10 and 14, no dates listed.  
[Two copies]
4. Service manual, PSR-C25, May 1965.
5. Service manual, PSR-30, no date listed.
6. Service manual, TV-45 and 75, no date listed.
7. Service Manual, Vibratory, TV-54 and 75, no dates listed.
8. Service manual, VM-31, June 1964.
9. Service manual, VM-31C and 32, August 1951.
10. Service Manual, three-wheel, 10–14 ton VM-31D and 12–16 ton,  
VM-32D, no dates listed.
11. Service manual, VM-31D and 32D, no date listed. [Two copies]
12. Slide presentation on various equipment, no date listed.
13. Slide presentation on pavers, no date listed. [Two sets]
14. Slide presentation's narrative on soil stabilization, no date listed.
15. Soil stabilization equipment, no date listed.
16. Soil stabilization various equipment, no date listed.
17. Operation and maintenance manual, tandem rollers, 1968.

e. Flaherty Manufacturing

1. Parts book and operating manual, Speed Master, no date listed.
2. Catalog, various products, no date listed.
3. Various materials and various dates.

f. Johnson Operations

1. Parts book with a letter of current stock levels, April 15, 1971. (Part 1)
2. Parts book with a letter of current stock levels, April 15, 1971. (Part 2)
3. Parts book, concrete products, variety of dates. (Part 1)
4. Parts book, concrete products, variety of dates. (Part 2)
5. Parts book, variety of equipment, several dates listed.
6. Publications, December 26, 1968.

Box List  
Manufacturing Category – Bomag  
Box 4

Item Number                      Description

**IV Publications**

- g. Koehring Road Division
  1. Cross-reference parts list, December 15, 1969.
  2. Service parts policy, November 1971.
  3. Annual report, 1966.
- h. Stardrill-Keystone Company / Keystone-Frank Company
  1. Service manual, 55 Speed Star, June 10, 1959.
  2. Service manual, 55-50 HP and 55-50, no date listed.
  3. Operational manual, “New” 71 Speed Star, September, 1955. [Two copies.]
  4. Parts catalog and operating manual, KF-40 and 50, no date listed.
  5. Parts book and operating manual, 81 and 81 IR, no date listed.
  6. Drilling machines and tools, June, 1959.
- i. Twin Disc Clutch Company
  1. Pamphlet, Care and Operation of Model CL Clutches, no date listed.

**V. Specific products publications**

1. Specific products, Bomag, variety of products, no date listed.
2. Specific products, Bros Inc., variety of products, no date listed.
3. Specific products, Buffalo- Bomag, variety of dates.
4. Specific products, Buffalo-Springfield Division, variety of dates.
5. Specific product, Model 630, no date listed.
6. Specific product, Model 836, no date listed.
7. Specific products, 3W-10 and 12, 10-14 tons, no dates listed.
8. Specific product, EA-58, no date listed.
9. Specific product, Model K, slide set and sheets, no date listed
10. Specific products, K-45A, B-S D, no dates listed.
11. Specific products, K-301, no dates listed.
12. Specific products, K-550, no dates listed.
13. Specific products, KT-4, 7A and 7B, no dates listed.
14. Specific products, KT-8, 4-6 tons, no dates listed.
15. Specific products, KT-15A5, 5-8 tons; A6 6-9 tons; and A8, 8-10.5 tons; no dates listed.
16. Specific products, KT-19B8, 8-12 tons; and B10, 10-14 tons; no dates listed.
17. Specific products, KT-24E, 8-12 tons; and 25E, 10-14 tons, no dates listed.
18. Specific products, for KT series, January 1958.
19. Specific products, KX-25D, E and EV, 13 -20 tons, no dates listed.
20. Specific product, LA-88 and 107, no date listed.
21. Specific products, PSR-C10, 4-10 tons; C12, 6-12 tons, no dates listed.

22. Specific products, PSR-C14, 8-14 tons; C15, 9-15 tons, no dates listed.
23. Specific products, PSR-C25, 9-25 tons, B-S D, no dates listed.
24. Specific products, PSR-30, 10-13 tons, B-S D, no date listed.
25. Specific products, S-35, 3-5 tons; and 46, 4-6 tons; no dates listed.
26. Specific products, VM-31D, and 32D, 12-16 tons, no dates listed.
27. Specific product, WR 10 and 20, no date listed.
28. Specific products, asphalt paver feeders, several models, variety of dates.
29. Specific products, asphalt reclaiming, several models, variety of dates.
30. Specific product, compaction equipment, no date listed.
31. Specific product, compaction machinery, no date listed.
32. Specific product, power broom, no date listed.
33. Specific products, soil stabilizers, no dates listed.
34. Specific products, stabilizers, no dates listed.
35. Specific products, "Super Tandem", 8-12 tons, no dates listed.
36. Specific products, Tandem Rollers, variety of items, no dates listed.
37. Specific products, vibratory rollers, no dates listed.

**Box List**  
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Box 5

Item Number                      Description

**V. Specific products publications**

1. Specific products, Flaherty, no dates listed.
2. Specific product, Spread-Master, no date listed
3. Specific products, FWD Wagner Inc., no dates listed.
4. Specific products, Johnson, no dates listed.
5. Specific products, Ko-Cal, no dates listed.
6. Specific products, Koehring, no dates listed.
7. Specific product, K 550, no date listed.
8. Specific product, K 551, no date listed.
9. Specific product, KV-125, no date listed.
10. Specific product, S 812, no date listed.
11. Specific product, RayCo, no dates listed.
12. Specific product, Rex, Compactor – 3-50, no dates listed.
13. Specific products, several different companies, no dates listed.

**VI. Company procedures**

a. Cost analysis

1. Compaction cost analysis, B-S D, no dates listed.
2. Kompactor, B-S D, no dates listed.
3. Marketing cost, several items, variety of dates.

b. Data sheets

1. Data sheet for the tandem roller 2-3 ton KT-4, no date listed.
2. Data sheet for the 4-6 ton portable tandem roller KT-8, no date listed.
3. Data sheet for the tandem rollers 2-3 ton KT-15, the 6-9 ton KT-15A6 and the 8-10 ton KT-15A8, no date listed. [Three copies]
4. Data sheet for the deluxe tandem roller, 8-12 ton KT-19B8 and the 10-14 to KT-19B10, no date listed.
5. Data sheet of the heavy duty tandem rollers 8-12 ton KT-24E8 and 10-14 ton KT-24E10, no date listed.
6. Data sheet for 3-axle tandem roller 13-20 ton KX-25E, no date listed.
7. Data sheet for 3-axle vibratory roller Model KX-25EV, no date listed.
8. Data sheet for the three-wheel rollers 5-7 ton VM-18 and the 6-8 ton VM-19, no date listed.
9. Buffalo-Springfield specifications of the 2-2½ tons tandem and towing attachment VT-6, no date listed.
10. Data sheet for the 10-12 ton three-wheel roller VM-29, no date listed. (Salesman sheet only)  
Data sheet for the three-wheel rollers 10-14 ton VM-31D and 12-15 ton VM-31D, no date listed.

11. Data sheet for compaction, no date listed.
- c. Lab work / Tests
  1. Asphalt pavement compaction, no dates listed
  2. Sand ballast volume, July 1960.
  3. Soil typing, November 16-23 1966.
  4. Tire testing graphs, November 1961.
  5. Tire testing graphs, November 1961.
  6. Tire testing graphs, November 1961.
  7. Tire testing graphs, compaction, November 1961.
  8. Tire testing graphs, compactor, January 1962.
  9. Tire testing graphs, April 1962.
  10. Tire testing graphs, B-S D, no date listed.
  11. Metal weight testing, no dates listed.
- d. Press releases
  1. Press releases, 1967 – 1970.
  2. Press releases, 1967 -1970.
  3. Press releases, Koehring Company, 1969 – 1970.
- e. Price lists
  1. Price list, B-S D, May 15, 1967.
  2. Price list, B-S D, variety of dates.
  3. Price list, B-S D, May 15, 1967.
  4. Price list, B-S D, February 15, 1968.
  5. Price list, B-S D, November 20, 1969.
  6. Price list, B-S D, December 1, 1969.
  7. Price list, B-S D, February 15, 1971.
  8. Price list, B-S D, variety of dates.
  9. Price list, B-S D, K-550 and 551, April 1970.
  10. Price list, Flaherty, variety of dates.
  11. Price list, Good Roads, November 15, 1970.
  12. Price list, Johnson Company, December 1, 1970.
  13. Price list, Ko-Cal, August 25, 1967.
  14. Price list, Koehring products, no dates listed.
- f. Production / Research and Development
  1. Booklet, New Products, AMA meeting, September 6-8 1967.
  2. Company procedures EA-58, no date listed.
  3. Company pricing, B-S D, no date listed.
  4. Redearch and planning, B-S D, no dates listed.
- g. Proposals and Design concepts
  1. Proposals, Koehring Company, 1970 and 1971.
- h. Reports
  1. Skooper Study, B-S D, August 8, 1966.
- i. Specification sheets
  1. Specification reports, variety of dates.
  2. Specifications for three-wheel, 10-14 ton 3W-10 and 12-16 ton 3W-12, B-S D, no date listed.
  3. Specification sheets, K-40 and PSR products, variety of dates.

4. Specifications for tandem rollers, variety of dates.
5. Specifications for vibratory compactors, variety of dates.
6. Specifications variety of equipment, various dates.
7. Specification sheets, three-wheel rollers, variety of dates.
8. Specifications for various rollers, no date listed.
9. Specification sheets, B-S D, no dates listed.
10. Specification sheets, B-S D, no dates listed.
11. Specification sheets for landfill compactors, no date listed.  
[Multiple copies]
12. Comparative specifications, no dates listed.
13. Specification sheets, Rex, variety of equipment, various dates.

**Box List**  
Manufacturing Category – Bomag  
Box 6

Item Number                      Description

**VII. Product Operations / Reports**

1.                      Landfill study done in New Jersey, October 6, 1970.
2.                      Operating reports, variety of dates.

**VIII. Marketing, sales and services**

- 1                      Bomag Products Publication International, no date listed.
2.                      Equipment Show, Koehring Company, 1960.
3.                      Comparative prices, 1961-62.
4.                      Projected advertising, August 1, 1969.
5.                      New products—1969, B-S D.
6.                      Marketing strategies, Koehring Company, 1970.
7.                      Sale's items, B-S D distributors, variety of dates.
8.                      Sales, B-S D, variety of dates listed.
9.                      Marketing, sales and service, variety of dates.
10.                     Marketing, Becoming a Distributor, no date listed.
11.                     Convention material, Koehring Division, variety of dates.
12.                     Examples of specification plaque for each model (51 patterns), no date listed.

**IX Association Presentations**

1.                      Report, A New Graphical Chart for Evaluation of Aggregate Gradations, New Orleans, Louisiana, January 27-31, 1962.
2.                      Speech, Hot Mix Windrowed for Steady Laydown with Fewer Trucks, May 1963.
3.                      Report, Compaction, presented at the Fifth World Meeting of the International Road Federation, London, England, September 18-25, 1966.
4.                      Marketing Meeting AED Convention, January 14, 1967.
5.                      Report, The Need for Compaction of Asphalt Concrete, given at the 49<sup>th</sup> Annual Meeting of the Highway Research Board, January 1969;
6.                      Reports, Sanitary Landfill Operations, February 18, 1970; and Lime Stabilization in the United States, International Lime Conference, Salzburg, Austria, May 22, 1970.
7.                      Report, Concepts in Soil Compaction, presented at the International Road Federation VI, World Highway Conference, Montreal, Canada, October 6, 1970.
8.                      Speech given at the New Jersey Asphalt Association Convention, September 25, 1973.
9.                      Paving Mixture Produced by the Drum Mixtures Process, Asphalt Conference of Canadian Technical Asphalt Association, Quebec City, Quebec, November 1973.

10. Report, Vibratory Compaction of Asphalt Concrete Pavement, presented at the 49<sup>th</sup> Annual Meeting of the Association of Asphalt Paving Technologists, Williamsburg, Virginia, February 1974;
11. Report, Sulfur Foam, Presented at the Annual Conference of the Canadian Technical Asphalt Association, Toronto, November 24-26, 1975.
12. Report, Vibratory Compaction of Asphalt is Not Always Easy, Presented at the Annual Conference of the Canadian Technical Asphalt Association, Calgary, 1976.

#### **X. Association / industry publications**

1. Article, Loose Sand—Their Compaction by Vibroflotation, 1953.
2. Equipment Show – 1960.
3. Manual inserts, Compaction Equipment Cost Estimating, January 8, 1965.
4. Article, Versatile Paver Speeds Street Work, *Western Construction*, December 1965.
5. Article, Mobility of the Self-propelled Vibratory Compactor, September, 1967.
6. Booklet, Sanitary Landfill Facts, 1968.
7. Trade Show – 1969.
8. Pamphlet, Concrete Plant Standards of the Concrete Plant Manufacturers Bureau, March 1, 1970.
9. Article, Ground Vibrations Damaging Effects to Buildings, Australian Road Research Board, 1971.
10. Booklet, Compaction of Thin Asphalt Layers, The Netherlands, 1974.
11. Article, Vibratory Roller Evaluation Study, *Compaction Magazine*, August 1975.
12. Article, Safe Handling of Nuclear Gages, Highway and Heavy Construction, May 1976.
13. Report, Vibratory Compaction of Bituminous Concrete Payments, U. S. Army Corps of Engineers, June 1976.
14. Articles, Mechanalysis Preventive Maintenance Programs; and IRD Mechanalysis, *IRD Mechanalysis*, 1976 and 1977.
15. Booklet, Superintendent's Manual on Compaction, National Asphalt Pavement Association, March 1978.
16. Article, Sulfur: Potential Pavement Binder of the Future, *Transportation Engineering Journal*, September 1979.
17. Booklet, Factors Affecting Compaction, The Asphalt Institute, November 1980.
18. Articles, different publication and associations, variety of dates.
19. Articles, The Asphalt Institute, January 1981.
20. Publications – asphalt, variety of items and dates.
21. Publications – lime, variety of items and dates.
22. Publications – salt, variety of items and dates.
23. Publications – soil, variety of items and dates.



24. Publications – soil cement, variety of items and dates.
25. Publications –sulphite, variety of items and dates.
26. Booklet, Association's publications, variety of dates.
27. Article, Emulsified Asphalt: The Modern Way, Ashland Petroleum Company, no date listed.
28. Booklet, Proceedings of the 57<sup>th</sup> Annual Road School, *Engineering Bulletin*, April 5-8 1971.
29. Handbook of Bituminous Compactionology, American Hoist and Derrick Company, no date listed.
30. Manual of Highway Construction Practices and Methods, 28. American Association of State Highway Officials, no date listed.
31. Article, Vibratory Compaction of Asphalt Pavements in Theory and Practice, *Flexible Roads*, no date listed.
32. Booklet, Ground Vibrations; Damaging Effects to Buildings, Australian Road Research Board, no date listed.

## **XI. Product blueprints and drawings**

1. Blueprint, B-S D installation for beamlift, February 1958. [Two Copies]
2. Blueprint, B-S D value installation, June 1958.
3. Blueprint, B-S D motor coupling, October 1961.
4. Blueprint, B-S D, side and top view of a roller, November 1962.
5. Blueprint, B-S D PSR-25, April 1963.
6. Blueprint, B-S D wheel weldment, November 1964.
7. Blueprint, B-S D general assembly of K-50, December 1966.
8. Blueprint, Gordon Ball project. February 1970.
9. Blueprint, concrete products; a letter to Mr. Anthony, November 1970.
10. Blueprint, B-S D wheel placement, no date listed.
11. Blueprint, B-S C, roller engine, no date listed.
12. Blueprint, B-S D fire system, no date listed.
13. Blueprint, B-S D K- 45, no date listed.
14. Blueprint, B-S D K- 80, no date listed.
15. Blueprint, B-S D KT-19B, no date listed.
16. Flaherty drawings, no dates listed.
17. Blueprint, Johnson Company, concrete products, November 6, 1970.

## **XII Miscellaneous Material**

### **a. Items**

1. Presentation folder for Koehring, no date listed.
2. Compaction estimator and compaction guide, no dates listed.

### **b. Newspaper articles**

1. News articles, February 4, 1961.
2. Four newspaper articles, no dates listed.
3. Two newspaper articles, no publisher or dates given

### **c. Photographs**

1. Five photographs and a seating chart, December 14-17, 1958.
2. Booklet of machinery used by B-S D, October 1967.

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Box 7

Item Number                      Description

**IV Publications**

d. Buffalo-Springfield Division

1.                      Parts and products catalog in a plastic case, June 22, 1964.

**VII. Product Operations / Reports**

1.                      Leather portfolio, National Sales Meeting (Springfield), no date listed.
2.                      Calendar, Deutschland '87.

**XI. Product blueprints and drawings**

1.                      Blueprint, road roller, no date listed.
2.                      Blueprint, road roller, no date listed.

**X. Association / industry publications**

1.                      Film, "Soil Stabilization", no date listed.

All of the items in this box are too large or irregular in shape to fit easily into the regular folders used in the other six file boxes.