

**DICTIONARY OF
METALLURGICAL AND
CHEMICAL MACHINERY,
APPLIANCES AND MATERIAL**

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Dictionary of Metallurgical and Chemical Machinery, Appliances and Material by Various

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VARIOUS

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D ICTIONARY
of

**METALLURGICAL
and CHEMICAL
MATERIAL**

1910

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***Metallurgical
and Chemical
Engineering***

239 West 39th Street, New York

DICTIONARY
OF
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Machinery, Appliances and Material

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PREFACE.

The first edition of this Dictionary, issued last year, has found such a friendly welcome as to convince us of its usefulness for the many users and buyers of chemical and metallurgical machinery, appliances and material. While the second edition, which we here-with hand over to our friends, has been completely revised and quite considerably enlarged, the general scope has not been changed. As to scope and object we quote from the preface of the first edition:

The object is not to give a complete directory of the trade, since representation in this Dictionary is limited to the advertisers in Metallurgical and Chemical Engineering. On the other hand this little book is more than a mere directory or tabulation of the names of manufacturers; the object is to give to prospective purchasers in compact form and convenient alphabetical arrangement, concise and accurate descriptions of the different makes and special features of any class of apparatus. Our intention is, therefore, to produce ultimately a sort of combination of dictionary and handbook.

Any alphabetical dictionary arrangement naturally results in heterogeneous articles being brought together on the same page. To relieve somewhat this inevitable heterogeneity, this Dictionary is divided into three parts:

Part I.—Machinery, Appliances and Material for Chemical and Metallurgical Industries.....	page 1 to 180
Part II.—Measuring Instruments and Laboratory Supplies	page 181 to 214
Part III.—Professional Directory.....	page 215 to 219

Each part is arranged alphabetically and cross-references have been freely employed for the convenience of the reader.

One point of divergency from the ordinary alphabetical arrangement, however, needs explanation. If anyone looks up ball mills, or tube mills, or jaw crushers, etc., he will find in each case a cross-reference to Crushing and Grinding. It seemed to us advisable to bring all crushing and grinding machinery together under one heading and to group them alphabetically under this heading (so that "Crushing and Grinding: Ball Mills" precedes "Crushing and Grinding: Crushers, jaw" and this again precedes "Crushing and Grinding: Tube Mills" etc.) The advantage is that the alphabetical principle and the convenience of finding a certain machine is maintained, while on the other hand a man who has something to crush or grind, but has not yet made up his mind what machine to use, will find here together in a series of pages all different types of machinery.

Metallurgical & Chemical Engineering

This arrangement has been generally made use of in the Dictionary, as under pyrometers in Part II, where this principle of arrangement enables a clean division into a number of prominent general types with distinct special features and limitations of temperature.

The descriptive notes have either been furnished by the advertisers themselves, especially for this purpose, or have been compiled from the trade literature or advertisements of the various firms.

One copy of this Dictionary we are sending, free of charge, to every subscriber and advertiser.

Our thanks are due to many friends for corrections and suggestions, all of which have found due consideration in this second edition. For the future we ask again for the cooperation, by criticism or suggestion, of all who will use this little book in the task, often so troublesome, of looking for information "where to get things."

METALLURGICAL AND CHEMICAL ENGINEERING,
New York, June, 1910.

PART I.

Machinery, Appliances, and Material for Chemical and Metallurgical Industries.

(For Measuring Instruments and Laboratory Supplies, see Part II.)

ABBÉ Tube Mill and Ball Mill. See Crushing and Grinding.

ABRASIVES. See Carborundum, also Corubin.

ABSORPTION TOWERS. System Kypke and Lange-Rohrmann, complete or in single parts made of acid-proof stoneware for absorption purposes.

—**DIDIER-MARCH COMPANY, NEW YORK.**
(Other stoneware makers see Stoneware.)

ACCUMULATORS, HYDRAULIC.

—**MACKINTOSH, HEMPHILL & Co., PITTSBURGH, PA.**

ACETATE OF LEAD. Sugar of lead. All grades.

—**THE GRASSELLI CHEMICAL CO., CLEVELAND, OHIO, CHICAGO, ILL., AND NEW YORK.**

ACETYLENE CYLINDERS. For storing acetylene, and acetylene generators for welding. See Welding, Oxy-Acetylene.

—**AMERICAN OXYGEN CO., PHILADELPHIA, PA.**

ACETYLENE GAS is made from calcium carbide and water. Calcium carbide produced and sold by

—**UNION CARBIDE CO., CHICAGO AND NEW YORK.**

ACETYLENE GENERATOR. Insures a constant supply of acetylene gas at an equal maximum pressure of two pounds for welding purposes. See Welding, Oxy-Acetylene.

—**INDUSTRIAL OXYGEN CO., NEW YORK.**

ACETYLENE PRESSURE GENERATOR. Used with the Davis-Bournonville oxy-acetylene process of welding and cutting, will maintain a pressure of 15 lbs. per sq. in., enabling users of the process to pipe the acetylene gas to various points in the factory where the process can be carried on most conveniently.

—**DAVIS-BOURNONVILLE CO., NEW YORK.**

ACHESON GRAPHITE. See Graphite.

ACIDS. Chemically pure. Hydrochloric, nitric, sulphuric acids. Full particulars and prices on request.

—THE BAKER & ADAMSON CHEMICAL CO., EASTON, PA.

ACIDS. Sulphuric, fuming sulphuric, muriatic, nitric, mixed, acetic, hydrofluoric, hydrofluosilicic, battery and phosphoric acids and battery solutions.

—GENERAL CHEMICAL CO., NEW YORK CITY.

ACIDS. Sulphuric, muriatic, nitric, hydrofluoric and mixed acids.

—GENERAL CHEMICAL CO. OF PENNA., PITTSBURGH, PA.

ACIDS. Chemically pure. Hydrochloric, nitric, sulphuric acids. Full particulars on request.

—GENERAL CHEMICAL CO. OF PENNA., PITTSBURGH, PA.

ACIDS. "Baker's Analyzed Chemicals." Every label shows an analysis, and our guarantee provides that the contents of each bottle will conform with that analysis.

—J. T. BAKER CHEMICAL CO., PHILLIPSBURG, N. J.

ACIDS. Sulphuric, distilled for storage batteries.

—GENERAL CHEMICAL CO. OF PENNA., PITTSBURGH, PA.

ACIDS. Sulphuric, muriatic and nitric. Mixed acid for nitroglycerine trade. Acetic acid—all strengths. Storage battery acid. Aqua fortis. Heavy chemicals for all purposes.

—THE GRABELL CHEMICAL CO., CLEVELAND, OHIO, CHICAGO, ILL. AND NEW YORK.

ACIDS. Chemically pure. Sulphuric, hydrochloric, nitric and aque ammonia. For manufacturing and laboratory purposes. Full information on request.

—THE GRABELL CHEMICAL CO., CLEVELAND, OHIO, CHICAGO, ILL. AND NEW YORK.

ACIDS. Sulphuric, oil of vitriol, muriatic, nitric. Mixed acids for high explosives.

—PENNSYLVANIA SALT MFG. CO., PHILADELPHIA, PA.

ACIDS. Commercial sulphuric, nitric and muriatic, liquid carbonic, electrolyte (battery fluid).

—THE WESTERN CHEMICAL MFG. CO., DENVER, COLO.

ACID ELEVATORS. Montejus, made of acid-proof stoneware in all sizes. These montejus are tested to resist various pressures depending on the size of vessel. Used to elevate acid by means of compressed air.

—DIDIER-MARCH CO., NEW YORK.

(Other stoneware makers see Stoneware.)