

**PUMPING MACHINERY: FOR OPERATION
BY ANY POWER: SINGLE AND DOUBLE
ACTING TRIPLEX PUMPS FOR VARIOUS
SERVICES, DEEP WELL POWER WORKING
HEADS, ARTESIAN WELL CYLINDERS,
ROTARY AND CENTRIFUGAL PUMPS**

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Pumping machinery: for operation by any power: single and double acting triplex pumps for various services, deep well power working heads, artesian well cylinders, rotary and centrifugal pumps by Various

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Manufacturing Plants of The Deming Company, Salem, Ohio, where are produced the "World's Best" Pumps for all uses. The smaller view represents the Spray Pump and Brass Work Department, which is adjacent to the Main Works and Power Pump Department.

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The DEMING COMPANY

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The Deming Company
Manufacturers of
Hand and Power
Pumps for All Uses
Salem, Ohio, U. S. A.



ANNOUNCEMENT



HIS Catalogue supersedes Catalogue "H" and all other preceding Catalogues of Power Pumps issued by this Company, and should be referred to as Catalogue "J." Its purpose is to present to prospective purchasers concise and reliable information about the standard sizes of DEMING Power Pumps of the Triplex, Deep Well and other types.

The line exhibited herein is an extensive one, being the result of thirty-five years of careful study of all kinds of pumping requirements and painstaking efforts to produce pumps which, in point of convenience, workmanship and efficiency, will best meet these requirements. They are so designed and constructed as to insure great durability, ease of operation and low cost of maintenance, which characteristics have won for them the enviable reputation of being "THE WORLD'S BEST."

New sizes and designs are continually being added, or standard designs modified, to meet new problems which are constantly presenting themselves, so that it is not possible to embody in this Catalogue all the sizes and styles of pumps which we are prepared to furnish, but only those general types which experience indicates are in general demand.

We therefore invite correspondence with reference to special pumping equipment, even if not listed in this Catalogue, and, whenever possible, will gladly prepare and submit estimates on pumps to satisfactorily meet existing conditions.

THE DEMING COMPANY.



DEMING POWER PUMPS are made in such a large variety of styles and sizes that their range of application is practically unlimited where belts, water wheels, electric motors, or steam, gas or gasoline engines are available sources of power. The many good features incorporated in their designs, and the exceptional efficiency in comparison with direct-acting steam pumps, as well as the fact that they can be installed in any convenient place without reference to the location of a central power plant, have resulted in a rapidly increasing adoption of Power Pumps. A few of the more important types of power pumps and their uses are cited herewith.

TRIPLEX AND OTHER POWER PUMPS

BELT DRIVEN: For waterworks, boiler feeding, paper and pulp mills, and for all kinds of factory pumping.

ELECTRIC DRIVEN: For water works, compression and open tank pumping for private water supply, fire service, boiler feeding, brine circulating, hydraulic elevators, hydraulic pressure accumulators, mine pumping, irrigating, etc.

GAS OR GASOLINE DRIVEN: For waterworks, railway tank service, private water supply, mine pumping, irrigating, etc.

WATER WHEEL DRIVEN: For irrigating and other purposes.

CENTRIFUGAL PUMPS

BELT OR ELECTRIC DRIVEN: For irrigating, contractors' use, and for pumping large quantities of water against low heads where efficiency is not essential.

ROTARY PUMPS

BELT OR ELECTRIC DRIVEN: For pumping oils, chemicals, clear water, etc.

DEEP WELL PUMPS

DEEP WELL POWER PUMPS are made in both the Triplex Type for open wells and Single Cylinder Type for drilled wells. For these pumps all the sources of power are applicable. Where a pure water supply, otherwise unobtainable, is essential the Deming Deep Well Pumps are recommended.

AIR COMPRESSORS

For either Belt or Electric Drive, an extensive line of small compressors is offered for use in garages, potteries, for supplying air to compression tanks, for gas engine starting, automatic fire sprinklers, pneumatic tools, etc.

General Remarks

This Catalogue supersedes Catalogue "H" and all former editions of Power Pump Catalogues.

CORRESPONDENCE

To insure prompt replies, please address all communications to the company instead of to individuals.

SHIPMENTS

Delivery is made F. O. B. cars factory unless otherwise specially agreed upon. Quotations include usual boxing and skidding for domestic transportation. Pumps will be boxed for export shipment at slight additional cost.

CAPACITIES

All capacities given in the tables herein are in U. S. gallons, and refer to actual plunger displacement, no allowance being made for slippage.

PIPE OPENINGS

All pipe openings are threaded to United States Standard unless otherwise specified.

ACCESSORIES

Packing is furnished for stuffing boxes of all pumps. Foundation bolts, gauges, revolution counters, relief valves, by-pass valves, gate and check valves, are not included with pumps, but will be supplied at extra cost when ordered.

DESIGNS

It being impossible to illustrate each separate size of our extensive line of pumps, typical sizes only have been selected for each class. As improvements may modify somewhat the design and appearance, the illustrations are not to be considered as binding, but only as giving a correct general idea of the class of pump shown.



General Construction of the Deming Triplex Pumps



The Deming Triplex Pumps embody the principle of the three-throw crank shaft, with the crank pins at an angle of 120 degrees with each other, by which arrangement the strokes follow and overlap one another. This results in a continuous and uniform action upon the fluid being pumped, and insures an easy flow through the delivery pipe, with a corresponding high degree of efficiency in the operation of the pump.

All of our triplex pumps, whether of the low service, medium or heavy pressure types, have the plungers with crossheads outside guided, thereby relieving the stuffing-box glands of lateral pressure due to the side thrust of the connecting rods.

The main housings, or guide columns, of our geared pumps are of the box girder type, and contain two bearings of extra large dimensions, which support the crank shaft between the cranks. By having two main bearings only, it is always easy to keep them in line, while with a bearing on each side of the three cranks, or four main bearings in all, it is exceedingly difficult to maintain this alignment, because of the certainty of the bearings wearing unevenly. Without perfect alignment it is obvious that the shaft will have to be sprung more or less during each revolution, with consequent loss of power.

The crank shaft is one of the most important items entering into the construction of a power pump, and we call special attention to our design, as shown in the illustrations. It is made of the best grade of open hearth steel casting in one piece, with all bearings of unusually ample dimensions. Integral with the shaft is a large flange, to which is bolted the main gear, this being accurately recessed to gauge to fit this flange. The superiority of this design of shaft, as compared with a shaft of the built-up type, is very evident. There are no parts to become loosened, or keys to give trouble, because of possible careless workmanship or otherwise. Furthermore, if, for any reason, a crank gear has to be replaced, it is not required to take the shaft apart, which usually involves a great amount of labor, because of the pump not being located where the