

The Knowledge Bank at The Ohio State University

Ohio State Engineer

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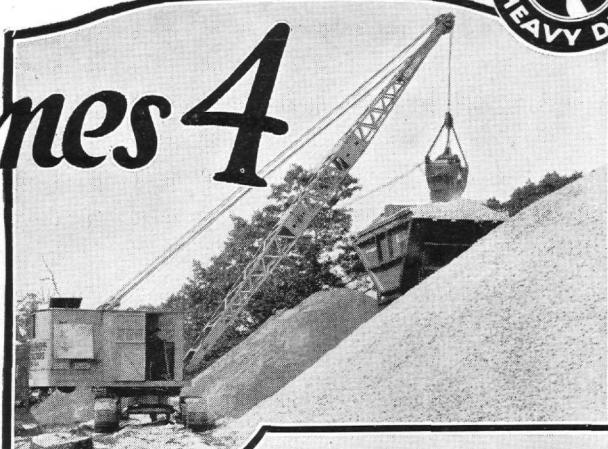
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KOEHRING

*When 1
Crane becomes 4*

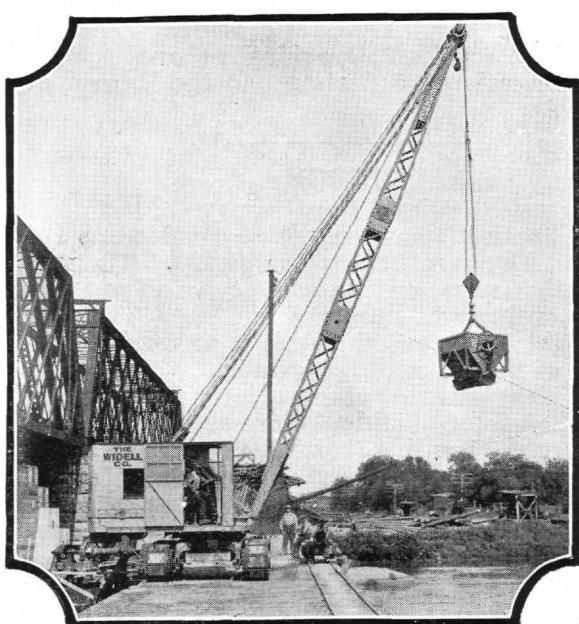
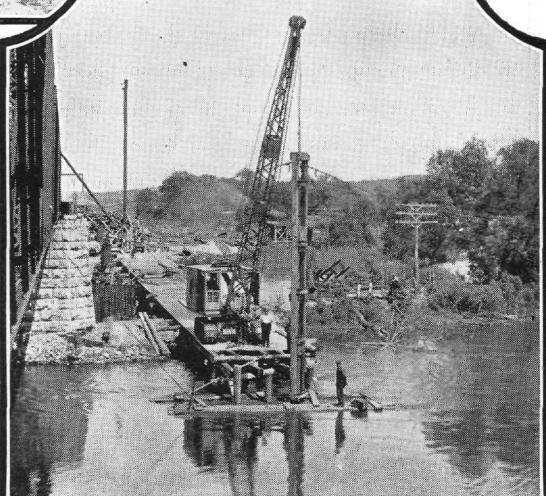


THE whir of varied operations in the construction field is confidently welcomed by the Koehring Heavy Duty Crane. It is not a welcome springing from a boastful confidence but a welcome coming from the ready adaptability built into a Koehring product.

Only four of the many uses to which the Koehring Crane is adaptable are illustrated on this page. Perhaps the most frequent of these is that of the clamshell bucket which transfers materials and aggregate at the central proportioning plants or in sand and gravel yards.

In the construction of concrete dams, reservoirs and bridges, the crane with a special bucket provides a speedy conveyance for elevating the concrete from the mixer to the forms. With a block and hook it is an exceedingly practical tool in the handling of structural steel for bridges, towers, tanks and buildings. And still another example of its wide utility is often shown in foundation work where it is necessary to drive piles for a solid footing. The Koehring Crane then becomes a pile driver.

Other outstanding uses of the Heavy Duty Crane include clay excavation with an orange peel bucket, the digging of drainage ditches and sewer lines with clamshell or dragline bucket, the lowering of sewer pipe into position with hook and sling, the handling of scrap iron and other metals with a magnet, and the constructing and removing of forms for concrete.



"Concrete—Its Manufacture and Use" is a 210 page treatise on the uses of concrete, including 26 pages of tables of quantities of materials required in concrete paving work. To engineering students, faculty members and others interested we shall gladly send a copy on request.

KOEHRING COMPANY
MILWAUKEE, WISCONSIN

Manufacturers of Pavers, Mixers—Gasoline Shovels, Cranes and Draglines



OVER two million cubic yards of rock blasted literally from under the very feet of New Yorkers—without even jarring their famous metropolitanism!

Since the adoption of plans for the Eighth Avenue Subway in 1925, contractors under the direction of the New York City Board of Transportation have been busily blasting a 57-mile tunnel under the most congested traffic centers of Manhattan and Brooklyn. Steam shovels and motor dump trucks crawl over and under and in between a labyrinth of tubes, tunnels, gas and water mains. Small charges of du Pont explosives, aggregating many tons, are being fired under the rumble of great trucks, scurrying taxis, and

hurrying pedestrians, with all the safety precautions prescribed by the city. One of the many wonders of this wonderful city.

When completed, this subway will contain 170 miles of track—more than doubling the subway facilities of New York. The cost of construction will be approximately \$400,000,000. The entire cost of this great subway is estimated at a half billion dollars—one of the most remarkable enterprises in the history of city government.

DuPont laboratories, duPont engineers and field service men are working constantly with users of explosives, making available the knowledge and skill of 125 years of explosives experience.

E. I. DU PONT DE NEMOURS & CO., Inc.

Explosives Department

WILMINGTON, DELAWARE



1902

1927

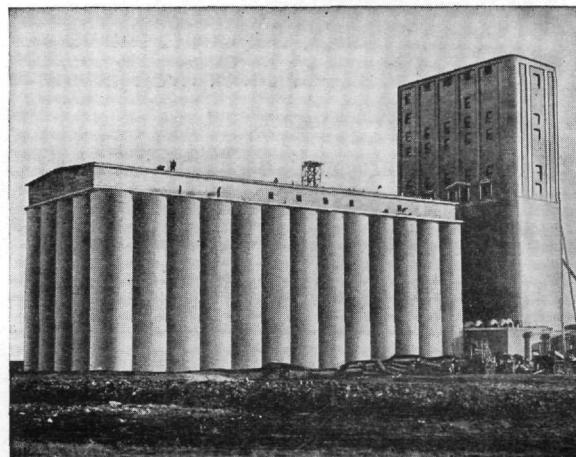
Competent Service — Confident Owners



CONDITION OF ELEVATOR AT TRANSCONA, CANADA, WHEN
TAKEN OVER BY THE FOUNDATION COMPANY

IN order to successfully meet the unusual engineering problems presented, it has been the policy of The Foundation Company since its inception to retain a personnel highly specialized and efficient, with initiative and judgment. Over one hundred and fifty men with over ten years service with the company, are now on the rolls; a great factor in inspiring repetition of contracts.

JUST a quarter of a century ago four young men, with a broad background of training and experience in the engineering construction field, formed The Foundation Company. Today the company is at work in every continent, in both hemispheres, and on both sides of the Equator, on engineering construction of almost every known type.



ELEVATOR RIGHTED AND PLACED ON PIERS
SUNK TO ROCK

As indicative of the service rendered by The Foundation Company over this period of years, these partial lists of repeat contracts have special significance. In one case no less than thirty contracts have been awarded by one owner.

S. S. WHITE DENTAL MFG. CO.
Factory 1917
Power House 1919
Factory 1926

GREAT NORTHERN PAPER CO.
Hydraulic Construction 1916
Boiler House 1921
Power House and Dam 1922

CORN PRODUCTS REFINING CO.
Water Supply 1918
Tunnels 1919
Industrial Plant 1921

*Office Buildings
Industrial Plants
Warehouses
Railroads and Terminals
Foundations and Underpinning
Filtration and Sewage Plants*

ATLANTA
PITTSBURGH
CHICAGO
SAN FRANCISCO

LOS ANGELES
MEXICO CITY
CARTAGENA, COLOMBIA
LIMA, PERU

MONTREAL
LONDON, ENGLAND
BRUSSELS, BELGIUM
TOKYO, JAPAN

*Hydro-Electric Developments
Power Houses
Highways
River and Harbor Developments
Bridges and Bridge Piers
Mine Shafts and Tunnels*

BUILDERS OF SUPERSTRUCTURES AS WELL AS SUBSTRUCTURES



C. D. SMITH,
Sales Engineer
Georgia Tech. '18



F. L. KOUCKY,
Salesman
North Dakota, '12



M. S. HANCOCK,
Motor Engineer
Illinois, '17



H. W. WILLIAMS,
Control Engineer
Cornell, '18



W. F. EAMES,
Control Engineer
Carnegie Tech. '18



D. SANTINI,
Control Engineer
Ohio State, '23



C. M. PURDY,
Contract Administration
Westinghouse Tech. '26



G. W. HUNTER,
Contract Administration
Westinghouse Tech. '27



YOUNGER COLLEGE MEN ON RECENT WESTINGHOUSE JOBS

Great achievements in engineering are brought about by the harmonious work of many. The individual's largest opportunity comes through the exercise of his own creative talents in the field for which he is preëminently prepared.

THE larger a hotel, the larger loom the difficulties of ventilating it; of handling the crowds that ride its elevators. The larger, too, looms the interest of engineers in designing electrical equipment to meet such unprecedented demands, of salesmen in selling it,

of service engineers in installing it and keeping it in top-notch operating condition.

To Westinghouse came the Hotel Stevens for ventilating motors, for its elevator system, for the electrical equipment of its laundry. To Westinghouse come many undertakings of such kind and size—a steady stream of imagination-stirring opportunities to do the never-before-

accomplished. All of tremendous interest to college men who have ambition, resourcefulness, capacity; disciplined sales and engineering minds.

The Hotel Stevens contains 3,000 rooms and baths. The Variable Voltage Control System used in the elevators was designed by Westinghouse. Whether you rise ten floors or only one, there are no jerks or jars. Speed is the same whether the car is

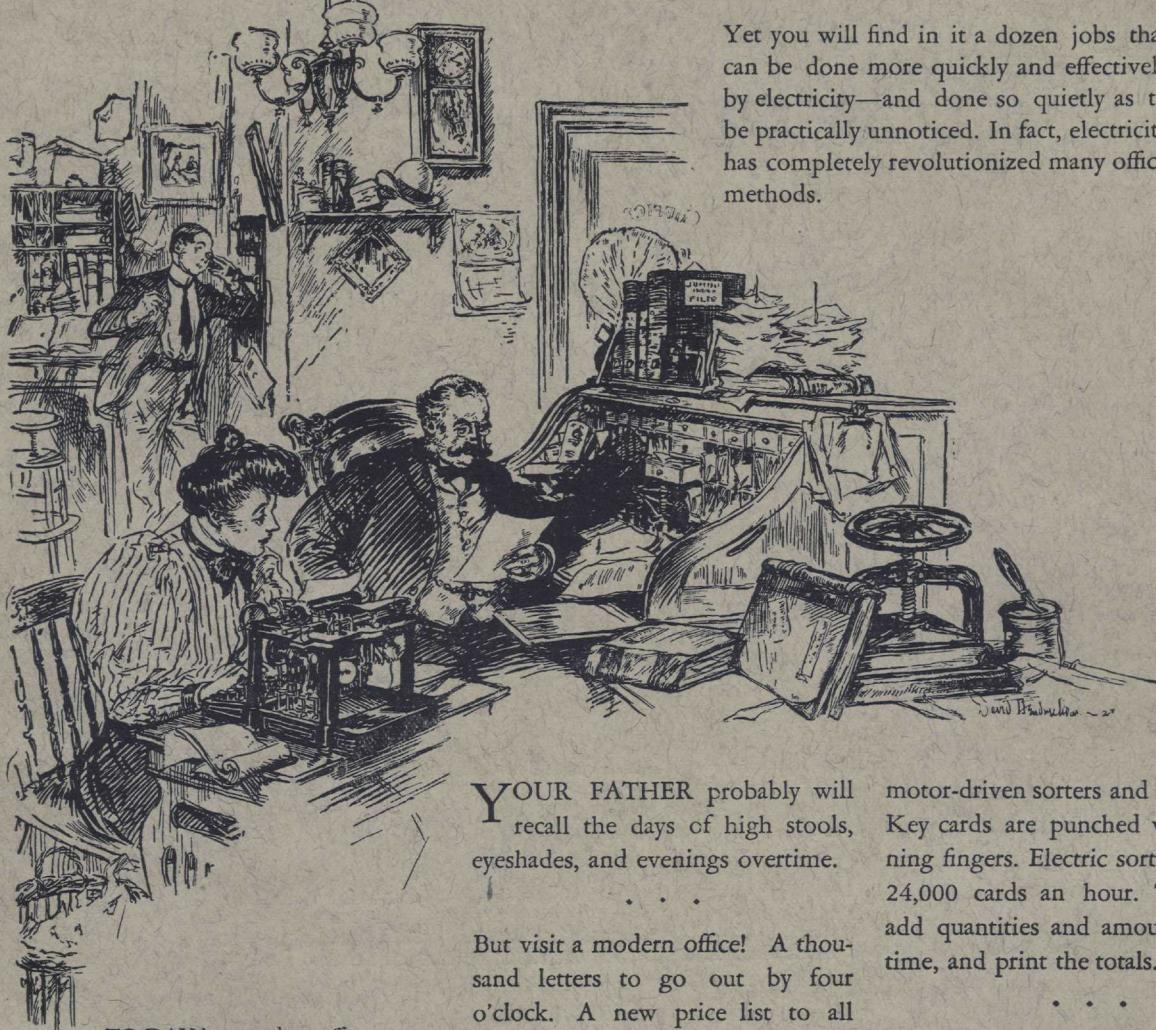
empty or whether it's packed. Cars automatically stop level with the floor—no "jockeying"—no "step up," or "step down, please."

Westinghouse



How will your office look?

Not like this, of course



TO-DAY in a modern office you will find these electrical aids:
Addressing Machines; Dictating Machines; Adding Machines; Multigraphs; Check-writers; Calculating Machines; Cash Registers; Interior Telephones; Card Recorders; Card Sorters; Time Recorders; Accounting Machines; Time Stamps; Clocks; Mailing Machines; Typewriters; Fans; MAZDA Lamps, and many other electric devices.



This familiar mark appears on many electrical products, including motors that drive time-and labor-saving office machines.

Yet you will find in it a dozen jobs that can be done more quickly and effectively by electricity—and done so quietly as to be practically unnoticed. In fact, electricity has completely revolutionized many office methods.

YOUR FATHER probably will recall the days of high stools, eyeshades, and evenings overtime.

But visit a modern office! A thousand letters to go out by four o'clock. A new price list to all customers in to-night's mail, without fail. Enter electricity. Two or three people turn switches, and the finished letters come out of an ingenious machine. Another motion and they are sealed and stamped. Only electricity could get that job done.

Here's a statistical job. The reports are in; thousands of figures to analyze. Looks like overtime for fifty clerks. "Certainly not," answers electricity, as a button starts the

motor-driven sorters and tabulators. Key cards are punched with lightning fingers. Electric sorters devour 24,000 cards an hour. Tabulators add quantities and amounts in jig time, and print the totals.

Go to almost any bank today. Hand in your account book. Click, click, click, goes the electric book-keeping machine and back comes the book to you. Five operations performed in that brief moment. Everybody saves time,—you, the clerk, the bank,—when electricity is the book-keeper.

In the office of to-morrow you will find "electrical fingers" doing more work than even to-day.

210-62DH
GENERAL ELECTRIC
GENERAL ELECTRIC COMPANY, SCHENECTADY, NEW YORK