

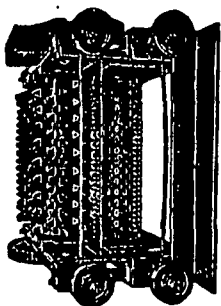
Two Stage CRUSHING IN ONE MACHINE!

Gundlach "Two Stage" Crusher incorporates two crushing stages in one machine and is designed to reduce 10-12" material to 1/2" or less in one operation. Compact design - simple installation and maintenance. Suggested simple maintenance combined with engineering proved in the field makes this machine a profitable and reliable unit.

MATERIAL SIZE CAN
BE CHANGED WHILE
MACHINE IS RUNNING

All Gundlach Crushers are
equipped with Gundlach Pat-
ented Crushing Rollers. (Pat.
No. 2,578,540)

Fulfilling an urgent need in the industry, the GUNDLACH "Two Stage" Crusher has delivered over 85,000 tons of material from its Illinois mine unit for



Crusher is powered without engine and operator
Crusher has its own motor
WRITE TODAY FOR CRUSHER LITERATURE P-3

T. J. GUNDLACH Machine Co., Belleville, Ill.

More POWER NEWS

Begin on page 154

Underground Corrosion of Galvanized Steel Pipe

A study of underground corrosion of hot-dipped galvanized steel pipe has recently been completed by the National Bureau of Standards. Results confirm previous NBS work by showing that galvanized steel having 3 ounces of zinc per square foot of exposed surface is highly resistant to corrosion in many soils which are very corrosive to bare steel.

For the Bureau's study, short lengths of both galvanized and uncoated steel pipe, and also plates of zinc, were buried at 15 test sites for periods up to 13 years. The sites, located in widely separated parts of the United States, represented a wide range of soil properties.

Zinc coatings gave good protection in most of the soils. In one soil in which bare steel pipe was perforated by corrosion after exposure for only a few years, the coating on the galvanized specimens remained perfectly continuous for the entire 13-year period. In only two of the 15 soils, both organic, was the zinc coating of negligible protective value.

In order to get maximum life from galvanized pipe in practice, it is necessary either to construct the entire piping system of galvanized pipe or else electrically insulate the galvanized sections from pipe of other metals. Otherwise, the zinc coating will be removed by galvanic action.

The General Electric Co. will manufacture the first large generator with liquid-cooled conductors in the history of the electrical industry. A new method of circulating a liquid through hollow conductors will be used in the stator of a turbine-generator set for the new Eastlake power plant of the Cleveland Electric Illuminating Co.

The unit, consisting of a tandem-compound turbine rated at 208,000 kilowatts and a generator rated at 250,000 kva, will be one of the largest in the world. This generator, alone, will be capable of supplying the household electrical needs of 600,000 people.

Other technical features of the Cleveland machine include direct cooling of the rotating field winding with hydrogen, a new and improved grain-oriented strip steel in the magnetic portion of the armature, and an improved type of insulation.

GE is also supplying three conventional hydrogen-cooled units, each of 125,000 kilowatts capacity, for the Eastlake plant, which will go into operation this summer. The 208,000 kilowatt generator is scheduled for installation by the end of 1955.

Dependable POWER—HEAT

for a 37-building
Veterans' Hospital



TICOTHERM STEAM GENERATORS

This battery of four Ticotherm Steam Generators dependably and economically serves the power and heat requirements of the 2000-patient Franklin Delano Roosevelt Veterans' Administration Hospital at Peekskill, New York. Ticotherm Steam Generators are always your sound choice for maximum steam output at lowest operating cost. Write for details!



Pushing a Button

is **SAFER EASIER QUICKER**

LIMITORQUE®

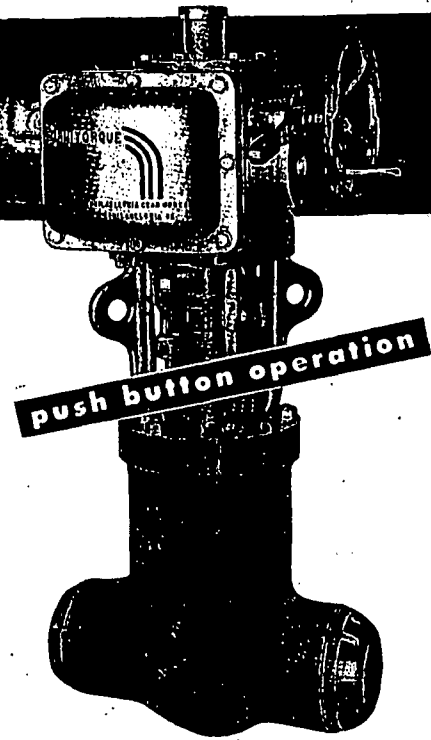
Limitorque opens and closes any type of valve in a fraction of the time required for hand operation. It is absolutely dependable and safe, even when pressures are so high that manual operation is almost impossible . . . when valves are exceptionally hot . . . and where its location is hazardous or inaccessible.

Yes, instant, positive operation is given to valves located miles away . . . all that is required is the push of a button.

Thousands upon thousands of these "time-ried and tested" Valve Operators are in continuous use, all over the world.

Of course, Limitorque offers a number of "exclusive advantages" in design and construction, which not only give dependable, safe and speedy performance, but which are your guarantee against damage to valve stems, seals, discs, plugs, or gates . . . not to mention possible physical injury to operators.

If you have valve operating problems, write us—and a "Philadelphia Engineer" will gladly call.



push button operation

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