

was completed, and the Hydrodynamics Research Center at Columbus, Ohio was put into operation.

research and new products With the formation of the Hydraulics and Electronics Group, Brake Shoe is well-equipped to design and manufacture electro-hydraulics systems, as well as components. The Company's systems capability is being stressed in sales presentations to major defense and industrial customers.

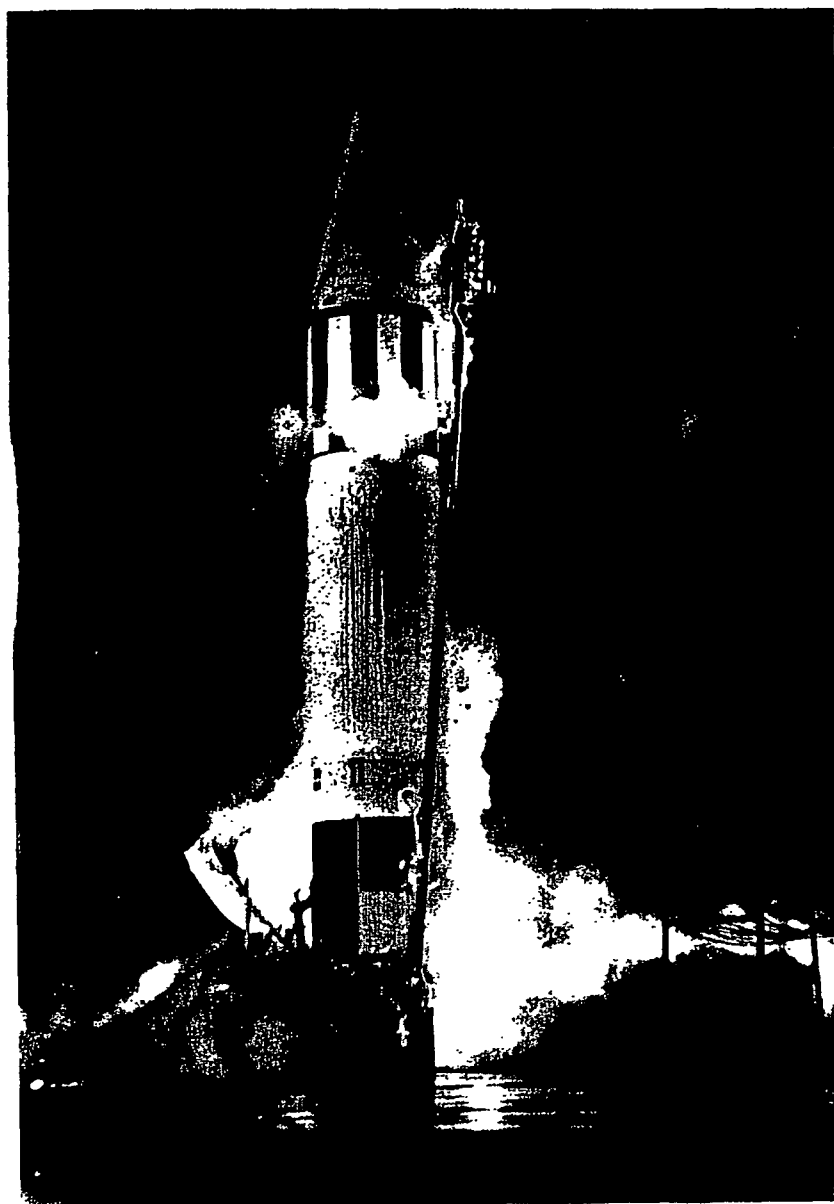
A high-speed industrial press with solid-state electronic control has been developed by Denison Engineering Division and the Hydrodynamics Research Center, and will go into production in 1961. The press offers faster operation than ever before achieved in a hydraulic press, combining high speed with the advantages of electro-hydraulic operation.

Other products now in late stages of development are a hydrostatic transmission for industrial, construction

and farm equipment; improved airborne pumps for high-speed aircraft, missiles and space vehicles; and electronic instruments of unusual accuracy and reliability.

dynisco division This newly-formed Division manufactures electro-mechanical transducers. Growth of Dynisco since its founding in 1953 has been impressive. Sales in 1958 were less than a quarter of a million dollars; in 1960 they reached three quarters of a million dollars. The founders, Dr. Y. T. Li and Dr. S. Y. Lee—brothers who are professors at the Massachusetts Institute of Technology—remain as president and vice president, respectively, of the Division.

Dynisco's products are used to translate changing pressures, temperatures, stresses or other variables into electrical signals which are used to actuate measuring instruments or automatic controls. Much of the Division's production is used in telemetering information concerning the performance of aircraft and space vehicles.



Hydraulic pumps and control valves made by Brake Shoe give this operator fingertip control of his big bulldozer — an example of an important market for industrial hydraulic equipment.

For missiles, the Hydraulics and Electronics Group supplies pumps and servovalves for control systems, hydraulics for ground-support equipment and launching mechanisms, and transducers which relay condition of missiles and occupants to ground.