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SOURCE Vechernyaya Moskva.

MAKE NEW COMPRESSORS, AIR CONDITIONERS;
WILL PRODUCE CAST-IRON PUMPS

CASTING SHOP FIRST TO USE FAST-DRYING BINDER -- Vechernyaya Moskva, 10 Aug 50

At the beginning of 1950, engineering-technical workers at the Moscow Kompressor Plant initiated a competition for the use of new techniques and improved technology in production, and for the investigation of supplementary reserves as a means of increasing output. The plan, discussed at a meeting of the collegium of the Ministry of Machine and Instrument Building USSR, was also suggested to the directors of other enterprises.

This competition during the last 7 months has produced excellent results. Members of the scientific engineering-technical association of machine builders are participating actively in the work.

The plant has developed a three-stage coke gas compressor with a capacity of 6,000 cubic meters per hour, and a Freon refrigerator unit. Preparations are under way for the production of new compressors and a steam-ejector refrigeration unit for air-conditioning tall buildings. As a result of suggestions from members of the association, the capacity of the casting shop has been increased more than 20 percent within a short time.

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Improvements in the casting shop include the organization of a special section for casting small-series parts. The work of this section is completely mechanized. It is equipped with a closed conveyer system which delivers the molding mixture continuously to the working area. New machines are also being put into operation.

Recently the Kompressor Plant, together with the Central Scientific Research Laboratory, Glavformamaterial (Main Administration for Molding Materials) has been doing experimental research on the use of a special fast-drying binder, which would insure the production of molds for heavy castings without the use of drying chambers.

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The first castings produced by the new method have gone to the machine shop for processing. Since the drying process now takes 20 minutes instead of 480, the use of the new binder relieves the shop's drying furnaces of 25-30 percent of their load, cuts down the production cycle, and increases productivity of the sections. Complete mastery of the new method will sharply increase the capacity of the casting shop. The Kompressor Plant is the first in the country to use the fast-drying binder. High-speed methods of cutting metal are being widely used, even for such complicated operations as cutting the side walls of compressor cases. There are now 138 high-speed cutters at the plant.

The machining of many parts in the compressor shop is set up by the closed-circuit method of operation. Engineering-technical workers of the shop, together with the Scientific Research Institute of Chemical-Machine Building, have worked out a plan for three continuous lines for machining cases, pistons, and connecting rods. These lines will go into operation during the first few days of October.

The enterprise has collaborated with other plants in developing of powerful coke gas compressors to meet the requirements of the city economy of the capital. The technology for casting the complicated cylinders for this compressor was worked out by three engineers. The plant has already produced the first three machines.

To increase output and improve designs of machines and appliances, engineering-technical workers are studying new, as yet unutilized reserves. For example, a machine was recently produced for pouring bronze bushings into steel casings. It has increased output of parts several times.

The Party organization is actively assisting the plant to carry out its obligations. When rejects in the casting shop increased a short time ago, the Party organization held a meeting urging the administration to get to the bottom of the trouble. In a short time the situation had greatly improved.

Engineering-technical workers have devoted much attention to the mechanization of labor in many shops. A highly productive device was developed for welding cylindrical shells. It has increased labor productivity and improved the quality of the items.

The cutting and facing of pipes for making refrigerating apparatus have for a long time been a difficult job at the plant. A machine tool has now been designed which not only increases labor productivity in this section, but also frees a number of screw-cutting lathes. -- S. Ivanov, secretary, Party Bureau, Kompressor Plant.

MAKES EXTRA-DURABLE CAST IRON FOR PUMPS -- Vechernyaya Moskva, 10 Aug 50

A special complex brigade has been formed in the casting shop of the Moscow Pump Plant imeni Kalinin to develop an extra-durable cast iron. It has done a great deal of preparatory work, using data from the scientific technical session on extra-durable forms of cast iron, held in June by the All-Union Scientific Engineering Association of Casters.

The smelting of extra-durable cast iron in the shop has produced good results. It has revealed the possibility of lengthening the period of service of pumps and replacing steel casting with iron. The brigade is now continuing to improve the method of production. It has redesigned and built a cupola with three rows of tuyeres, which has made it possible to cut fuel consumption 15 percent, increase the temperature of the cast iron, and raise labor productivity.

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Vechernyaya Moskva, 31 Jul 50

In recent times the Moscow Pump Plant imeni Kalinin has greatly improved its production. The machine assembly shops for small, medium, and artesian pumps have been remodeled. The reorganization has made it possible to cut down the production cycle and increased output. Twenty-nine machine tools have been converted to high-speed cutting.

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Drills with hard alloy blades are in use at the plant. Their cutting speed is three times as great as the speed of ordinary drills made of high-speed steel.

DESIGNS NEW VENTILATOR FOR PETROLEUM PLANTS -- Vechernyaya Moskva, 28 Jul 50

Designers at the Moscow Borets Plant, assisted by plant workers, have developed a simpler and improved ventilator for fractionating towers in petroleum-distilling plants. Testing has been successfully completed. The ventilator is now being tried out under actual working conditions.

Economists have estimated that the plant will save over one million rubles annually by producing the new type of ventilator.

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