

8. The installation of a roller conveyor system at Winchester is complete - the first system installed to handle all regular runs of blocks and production material. It should set the pattern for Detroit. Such a system will reduce handling, trucking, and space requirements, and will force the completion of a job once started.

9. A small but important addition to our double-end automatic DO-ALL saws in the form of a hydraulic operated disappearing saw "back-up" block has greatly reduced scrap from broken corners on rolled strip material.

10. Considerable has been done on Cycleweld cement application to brake lining. An experimental machine has been operating for some time, and preliminary drawings are completed on a fully automatic system of application and oven drying. Further work is being withheld pending future developments.

11. A great deal was developed in thermalizing equipment. Drawings are nearly complete on two fully automatic machines with pre-heating equipment, press, and cooling tunnel. These designs have also been held up pending future developments.

1949 will see the completion of the following work begun in 1948:

1. Drawings are 50% complete on converting the present "labor-costly" hand rolling machines into a semi-automatic machine for strip rolling.

2. Paralleling this development, experiments have begun on the regular automatic rolling machines. To date we have been able to increase the useful range of these machines by taking over some sizes heretofore handled on the hand rolling machines, which also will help to improve the product. Further experimental work on the basic design and principles of these machines will continue throughout 1949.

3. Engineering work has begun on new methods of cut-off control which we hope will make all automatic rolling machines successful at strip production as well as roll production. This will reduce material now rolled on the hand rolling machines to a minimum.

4. A new Compounding Department layout for Detroit incorporating new principles of handling, batching, and processing is being developed by the Division Engineering and Construction and Maintenance Departments.

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