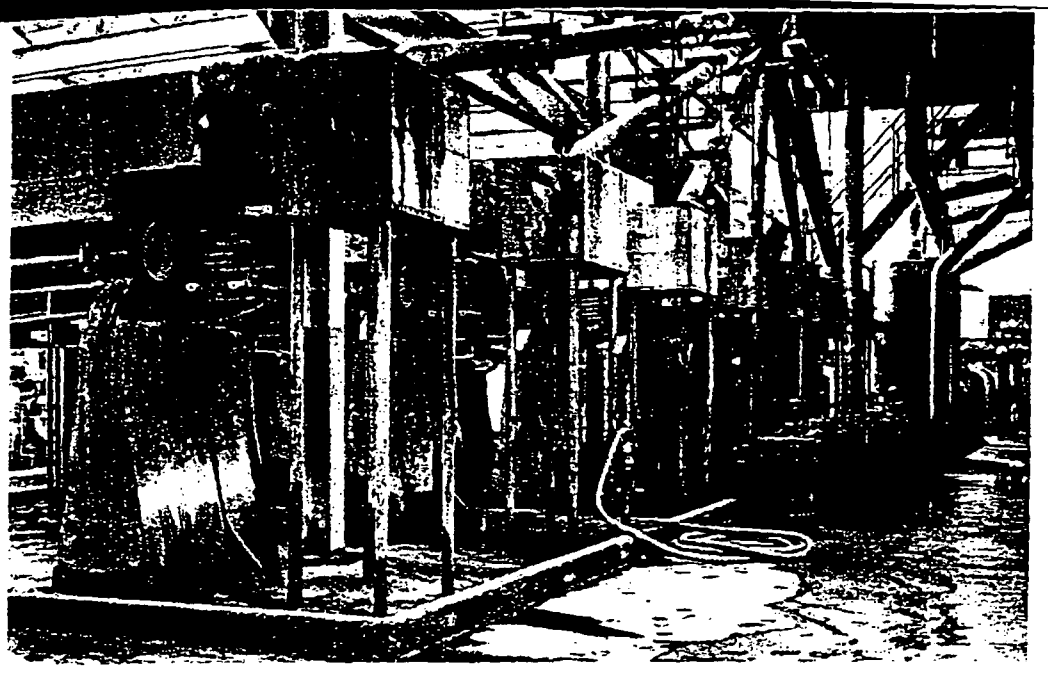


The seven Impco 14-plate flat bed screens are driven by Elliott C-W 5-hp, 1200-rpm TEFC Sealedpower *motors. At times the stock passing through the screens foams up and flows over the top, dripping down and splashing on the motors.*

MOTORS FOR PAPERBOARD MILL DRIVE

THE BOARD DIVISION of the A & P Corrugated Paper Box Corporation began operation of a new mill at Lawrence, Massachusetts in December, 1953, establishing a record for the preparation of a mill building and the installation of a paperboard machine and considerable auxiliary equipment. In almost a year to the day from the time the company began moving in equipment, the first roll of paperboard was produced. A Black and Clawson paperboard machine was purchased from the Covington, Virginia, mill of the West Virginia Pulp and Paper Company. It has seven 42-in. by 136-in. cylinders, trims to 123 in., and has an estimated capacity of 100 tons per day on all grades of folding and set-up box board and specialties.

Elliott Company supplied many of the motor drives on the auxiliary equipment, and probably the best way to describe these is to run briefly through their refining process. Starting with wastepaper as their raw material, the preparation of the stock for the paperboard machine begins in three hydrapulpers, which chew up the paper in a water solution. The top-liner hydrapulper is a 15-ft diameter batch unit, the back-liner an 11-ft diameter batch or continuous, and the filler hydrapulper is a 16-ft diameter continuous unit, driven by an Elliott C-W 200-hp, 400-rpm splashproof motor. The top and back-liner stocks are pumped to two separate tile dump chests, each equipped with agitators driven by Elliott C-W motors. The filler stock is pumped through hydrafuges and classifiners, then is dewatered and put into a third dump chest.

Continuing the refining process, the top-liner stock is pumped from the dump chest through a Shartle Brothers combination hydrafiner and jordan. The hydrafiner is driven by an Elliott C-W 25-hp, 1170-rpm splashproof motor and the jordan by an Elliott C-W 200-hp, 435-rpm splashproof motor. The back-liner stock is also prepared by a Shartle Brothers jordan and the filler stock by two Noble and Wood unifiners. All three of these machines are driven by Elliott C-W 200-hp, 435-rpm splash-proof motors. Leaving the jordans, the stocks flow into vertical stock chests and from the chests into the consistency regulator; then down from the consistency regulator into the appropriate flat screens where impurities are removed. There are seven of these Impco 14-plate flat bed vibrating screens, each equipped with an Elliott C-W 5-hp, 1200-rpm *Sealedpower* motor. From the screens, which are the last step in the refining process, the finished stock flows into the various cylinder molds of the paper machine to emerge minutes later as paperboard.