

B-85-C

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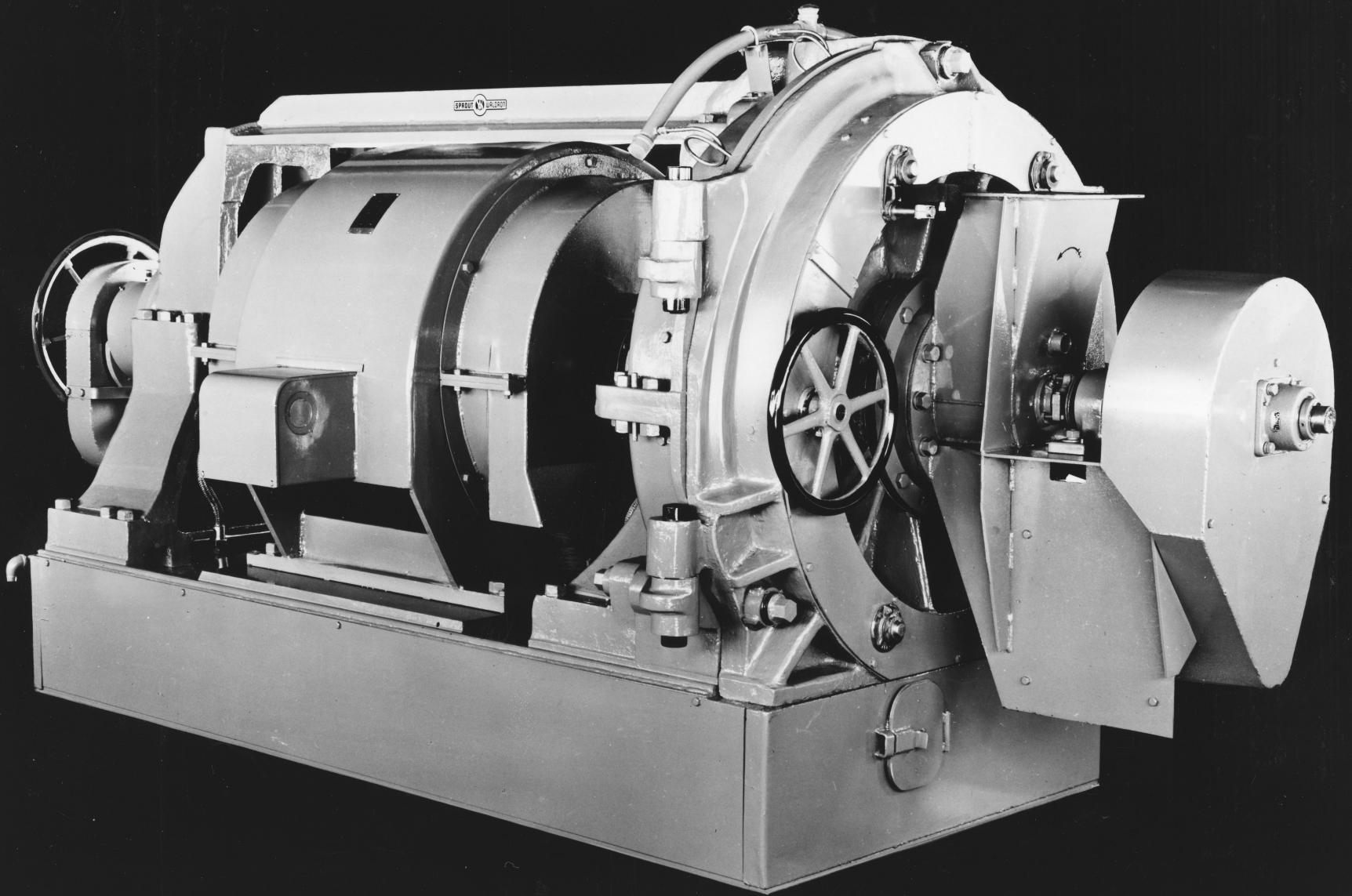
SPROUT-WALDRON 36-2 REFINER

Swinghead open showing the refiner and peripheral control ring plates on the rotor and swinghead. The flinger nut on the center of the rotor secures it to the shaft and distributes the stock evenly to the plates.

The casing has a 1/4" thick stainless steel wear liner. Above the casing is the peripheral control ring shower manifold. On the outer periphery of the swinghead are seen two of the three tramping plugs that hold the swinghead and whose adjustment brings the plate faces into parallel.

The base side plates have been removed to make visible the design and construction of the circulating oiling system used with motors larger than 300 HP. In the base is a 50 gallon oil tank. Mounted on a separate steel base are the oil pump with 1/3 HP totally enclosed motor, oil filter and oil cooler. The cleaning handle of the oil filter projects above the base for easy accessibility. Each bearing oil line is equipped with a ratsight flow indicator alarm type which shows the exact volume of oil passing to each bearing assembly and sounds an alarm or shuts down the refiner if this volume is reduced below the safe amount. Inlet and outlet thermometers are provided on the thrust bearing plug as well as a pressure gauge.

A sampling door is located on the base. The swinghead hinges can be located on which ever side is most convenient. The refiner is powered by an integral dripproof motor, synchronous or induction.



B-85-G

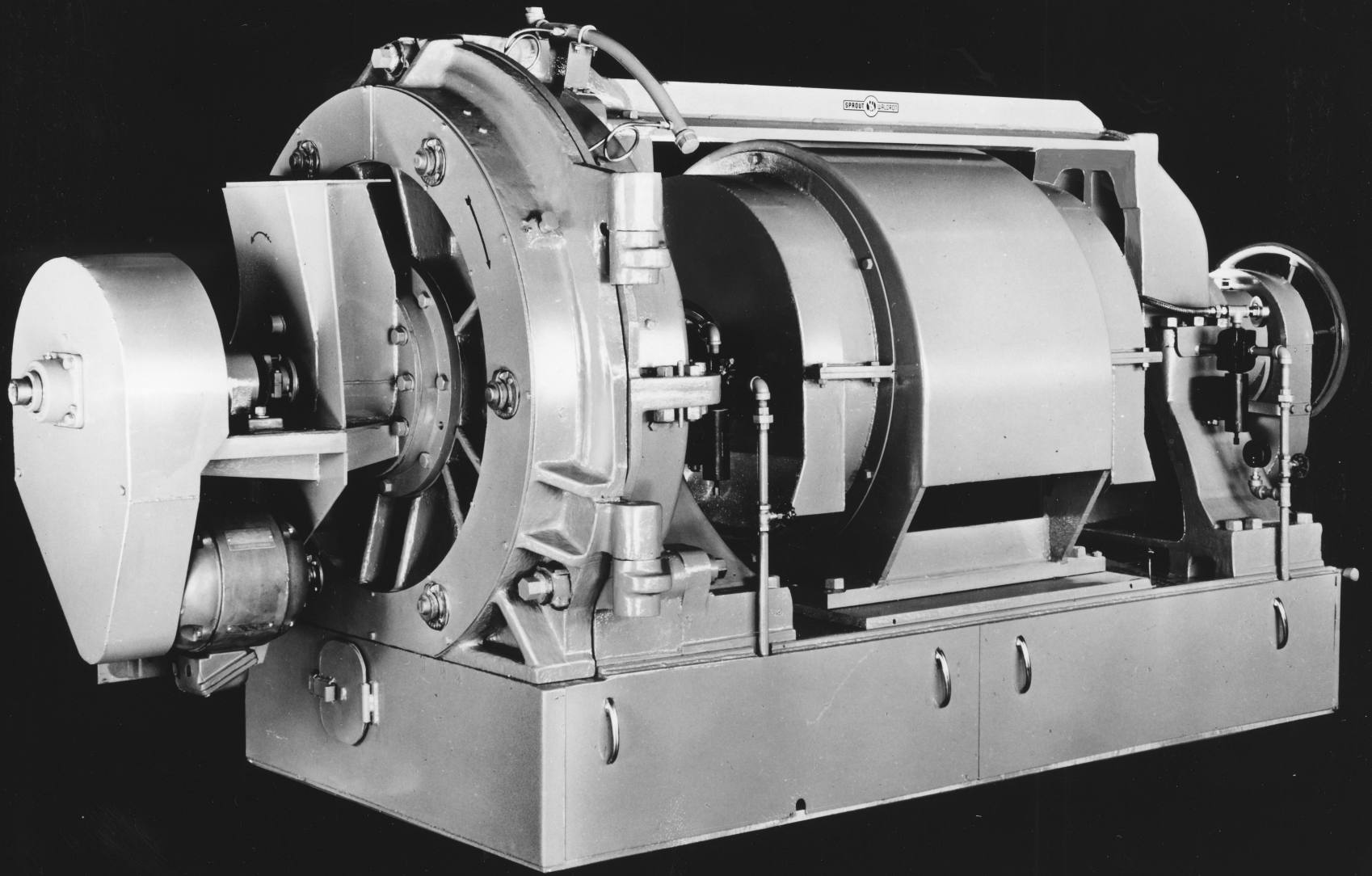
SPROUT-WALDRON 36-2 REFINER

Side view showing design and construction details including integral dripproof motor, synchronous or induction. Note the simple, sturdy design throughout.

Exterior elements of the integral circulating oiling system used with motors larger than 300 HP are seen. Each bearing oil line is equipped with a ratsight flow indicator, alarm type which shows the exact volume of oil passing to each bearing assembly and sounds an alarm or shuts down the refiner if the volume is reduced below the safe amount. Inlet and outlet oil thermometers are provided on the thrust bearing plug as well as a pressure gauge.

At the rear of the base is the oil tank filler pipe with breather cap and oil tank level indicator.

The oiling system components are easily accessible by removing the base side plates.



B-85-H

SPROUT-WALDRON 36-2 REFINER

Full view showing the refiner equipped with a throat screw feeder driven by 2 HP totally enclosed motor. This feeder is used when feeding chips, knots, screenings, and other coarse material fed by conveyors. The peripheral control ring plate clearance is adjusted by a handwheel behind the throat screw. The handwheel at the rear adjusts the refining plate clearance.

Two of the three tramming plugs used to parallel the plate faces, are visible on the swinghead.

Exterior elements of the integral circulating oiling system are shown. On the tail end bearing pedestal are the oil line pressure gauge, ratsight flow indicator, alarm type, and the inlet oil thermometer. On the feed end bearing pedestal the ratsight flow indicator, alarm type is partially hidden.

On the refiner motor base is the oil filter cleaning handle. The oiling system components are easily accessible by removing the base side plates.

The refiner is powered by an integral dripproof motor, synchronous or induction.



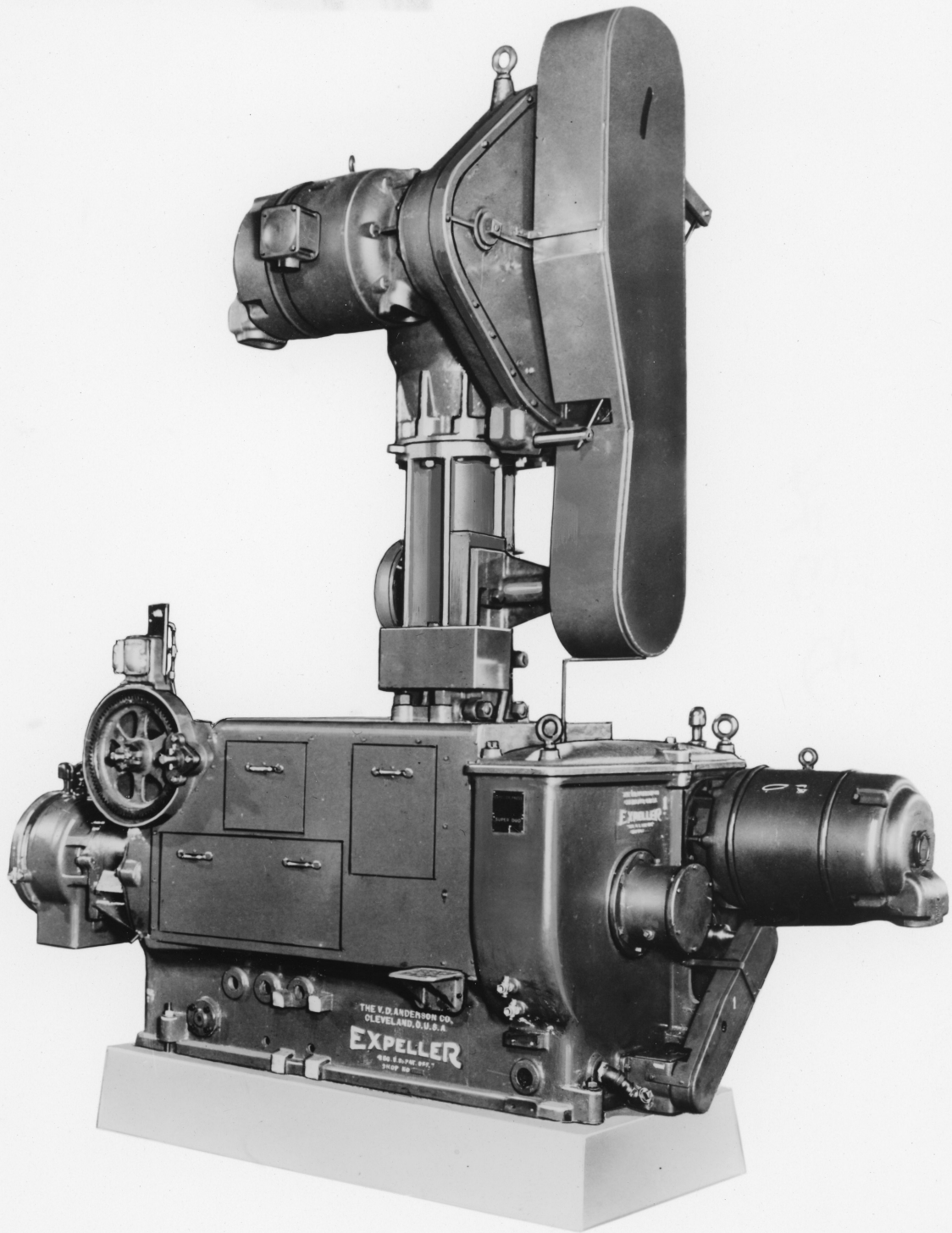
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SPROUT-WALDRON 36-2 REFINER

Swinghead open 90° showing clearance necessary for cleaning. The throat screw with separate 2 HP totally enclosed motor appears at the left.

The 1/4" thick stainless steel wear liner is seen inside the casing. The three bolts in the casing periphery are the tramping bolts which hold the swinghead and bring the plates into parallel.

The flinger nut in the center of the rotor secures it to the shaft and distributes the stock evenly to the plates.



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SPROUT-HEADERS - ANDERSON CHIP PRESS

View shows the vertical press section and the horizontal press section each driven by a 50 HP motor. The gear at the left end adjusts the clearance of the choke mechanism to the shaft of the horizontal press section.

At the extreme left is the thrust bearing and discharge from the horizontal section. The press is completely self controlled. The impressed material is fed, into the circular flange mounted on the vertical section.



B-399-E

SPROUT-WALDRON 36-2 REFINER INSTALLATION

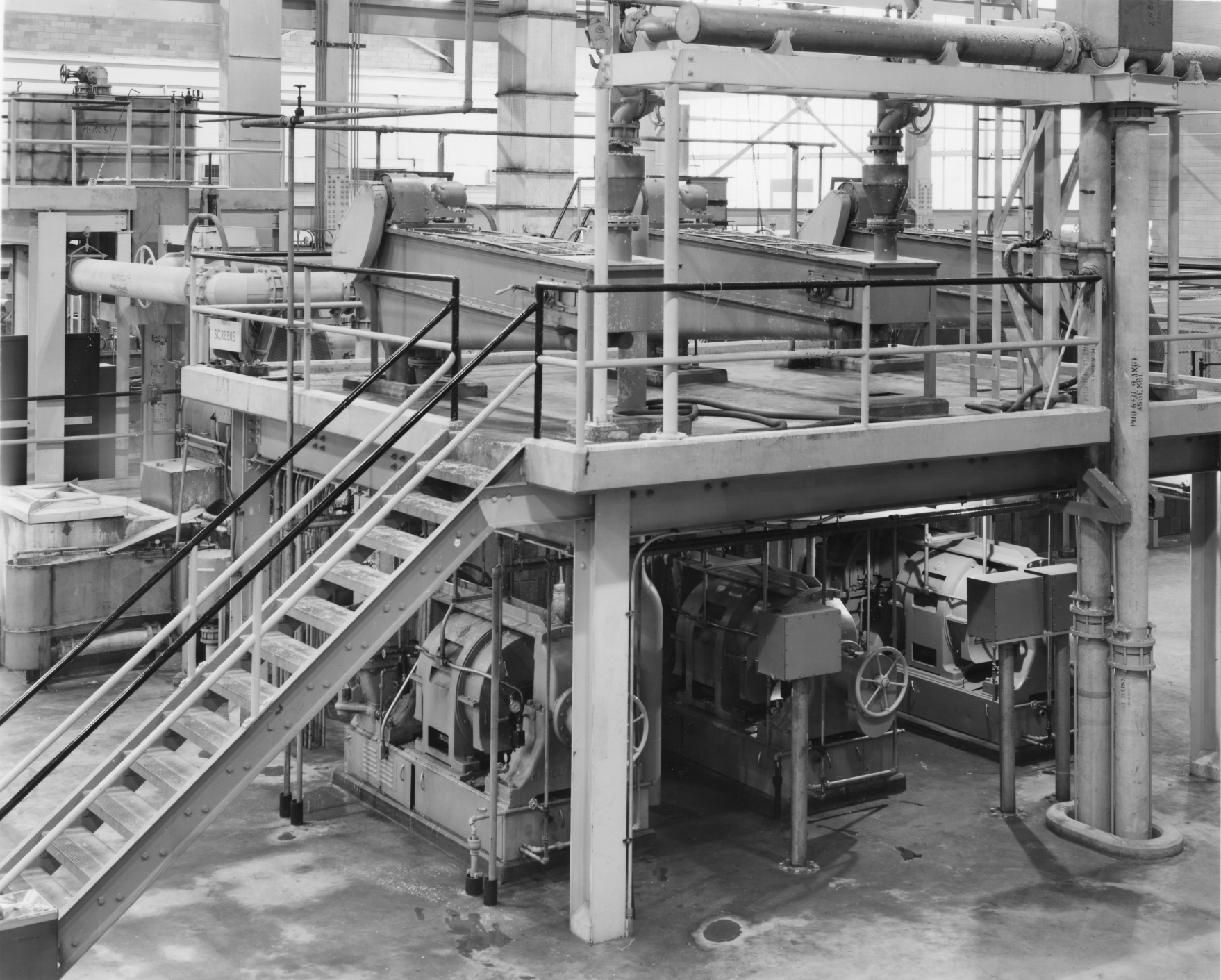
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View of groundwood rejects refining system consisting of three 450 horse-power refiners each fed by a Sprout-Waldron No. 24 Flat Bed Drainer. The flat bed drainer thickens the rejects and feeds them uniformly to each refiner. Another refiner will soon be added to this installation as a result of an expansion program.

The white water from the flat bed drainers is mixed with the refined pulp at the refiner discharge. The flat bed drainer receives stock from a head box through a header arrangement with a control valve at each drainer.

The consistency in the refiner is about 6%, bone dry basis.

1956



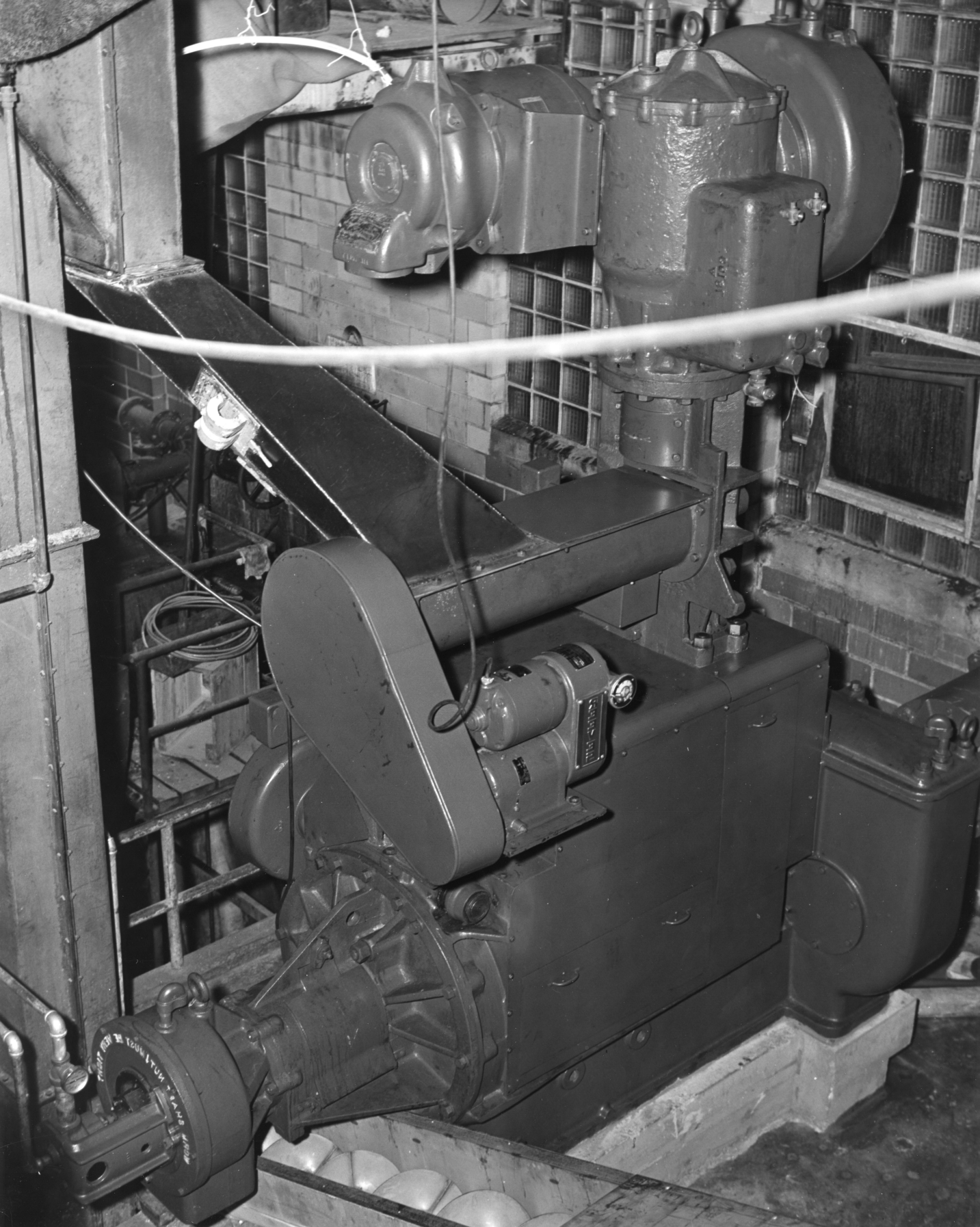
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SPROUT-WALDRON 36-2 REFINER INSTALLATION

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Another view of the groundwood rejects refining installation. The electrical control boxes for each refiner can be seen in the foreground.

1956



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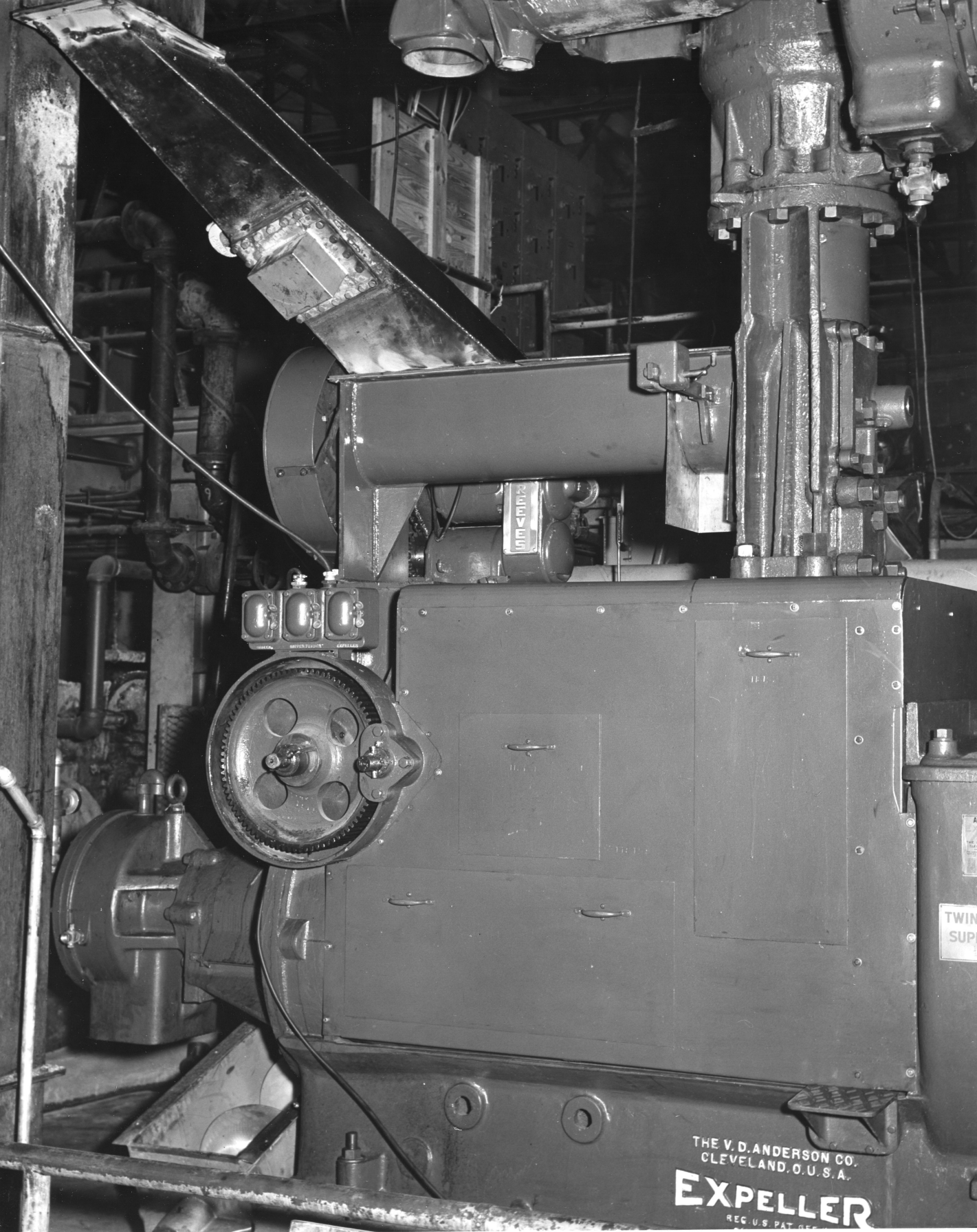
SW-ANDERSON EXPPELLER PRESS INSTALLATION

100 HP Press installed in a mid-western U. S. Bleached Neutral Sulphite Semichemical Pulp Mill.

The press receives chips through a magnet-equipped chute above the press which connects with a bucket elevator at the left side of the photograph. An adjustable speed screw conveyor feeds the chips into the vertical section of the press which is driven by a 50 HP motor.

The partially pressed fiber from the vertical press section passes into the horizontal press section. The completely pressed fiber discharges into the screw conveyor just visible at the bottom of the photograph.

Note the neat compact installation in the small space requirement.



WATER TIGHT

WATER TIGHT

TWIN
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B-435-A

SW-ANDERSON EXPELLER PRESS INSTALLATION

View showing the magnet-equipped feed chute, the adjustable speed screw feeder, the vertical press section and the enclosed horizontal press section. At the left is the pressed fiber discharge to the screw conveyor and the horizontal shaft thrust bearing at the extreme left.

In the foreground is the adjusting gear for the choke mechanism which controls the discharge consistency.