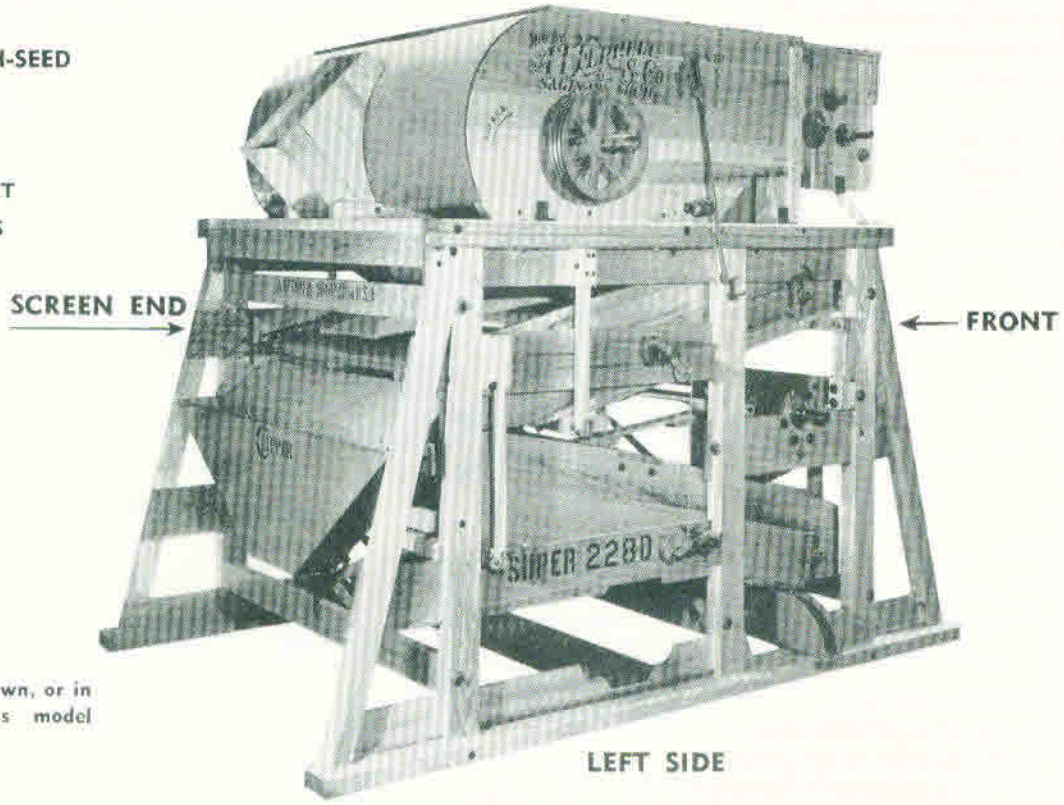
THE SUPER 228-D RECEIVING SEPARATOR

HIGH CAPACITY ROUGH-SEED PRE-CLEANER

PRECISE CLEANING AT REDUCED CAPACITIES

- **SCALPS**
- **SIFTS**
- **ASPIRATES**

(Supplied in wood, as shown, or in all-steel construction as model 228-DS).



LEFT SIDE

Simplicity and sturdiness of construction of this unique machine, coupled with its great versatility, has made it one of our most popular models. It is designed especially for fast, economical grain and bean conditioning with a capacity of approximately 1200 bushels per hour. It is very efficient when used as a fast scalper, sifter and aspirator ahead of a large capacity rice drier; in scalping trashy lespedeza seed prior to running over a finishing cleaner; in market cleaning grains and beans prior to loading into bins or cars . . . and many other rough scalping operations.

For clipping, debearding, etc., refer to P. 43 (Debearder).

One large Kansas seedsman installed this model to scalp alfalfa seed ahead of several Super 29-D seed cleaners. He states that on some of the better lots he does all the necessary cleaning with but a Super 228-D.

This model fits into any line of cleaning equipment as a fast receiver and in some plants it is even placed at the end of the run to do a final job of finishing.

Here are a few examples of its successful usage:

On rough rice with course screens, it will clean 500 to 600 bushels per hour, and by using small top perforations and a coarse lower screen separation, rough rice can be selectively cleaned with an output of about 380 bushels per hour.

On market soybeans using a 28 or 30 round hole top screen and a number 8, 9 or 10 round hole lower screen, it will handle beans containing 10 to 20% ordinary dockage and raise the grade to a number 1 or number 2 quality with an output from 1000 to 1200 bushels per hour.

On seed using a 20 or 21 round hole top screen and the proper oblong perforated lower screen (usually 11/64 x 3/4) a perfection cleaning job can be gained removing split beans, morning glories, dirt and other contaminations at an output of approximately 300 bushels per hour.

On cleaned wheat for storage or market the output runs from 1000 or 1200 bushels per hour, and by using close seed screens, clean wheat for planting purposes is produced at approximately 300 bushels per hour.

These few normal cleaning examples are mentioned to emphasize the versatility of this excellent machine.

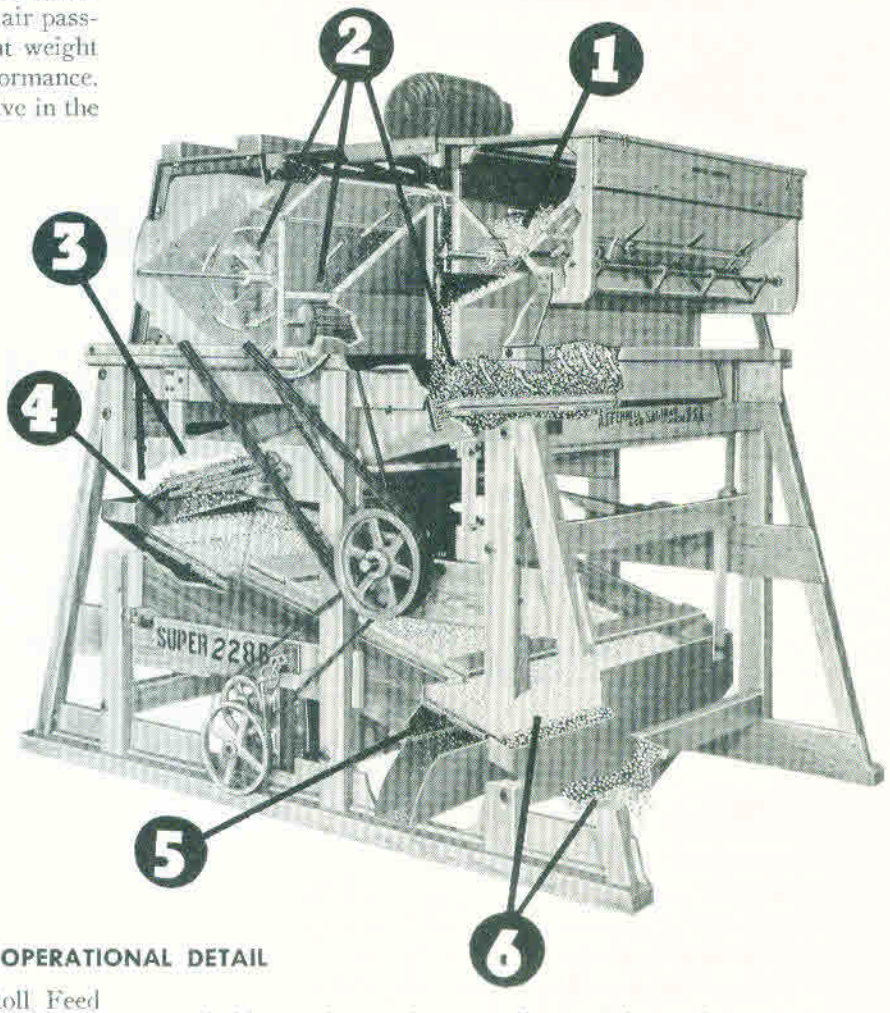
super 228-D

Here's a quick run down on the operation. Each factor is pin-pointed, arrowed to the cut-a-way view below to further explain where and how each function is performed; a large powerful top suction fan is mounted above the top screen to draw air up through the hopper air passage and through the seed, quickly removing light weight trash before it can contaminate the top screen performance. This air suction is controlled by an adjustable valve in the air passage with a desired setting made near the discharge spout where the operator can adjust the suction while watching the trash flow from the spout.

Double traveling brushes travel back and forth under each screen, keeping the perforation open. They are powered by the Gear Sector-53 Brush Drive. These brushes are quickly and easily raised or lowered by the instant acting brush adjustment control level. This feature maintains constant "bristle pressure" to compensate for gradual brush wear.

The Super 228-D has two 54" x 60" screens mounted in individual shoes which are suspended independently and are pitched in opposite directions. This special screen arrangement enables the commodity to travel over most of the entire width and length of the two large screens, which gives a better separation at high capacities. The two shoes are driven by four ball bearing eccentrics having counterbalancing action which cancels out excessive vibration. Both shoes are individually adjustable in pitch from 9 through 18 degrees. This permits the seed or grain to travel from slow to fast over the screens as is desired.

The hopper is mounted on the front end of this model. The Super 228-D is the only model in the Clipper line having the screens pull from the rear. See the illustration. This view shows the suction fan control and the bottom pan spout on the left side. Spouts and controls can be factory constructed on either side. This must be determined at the time the order is placed.



OPERATIONAL DETAIL

1. The commodity first passes through the Roll Feed Brush type hopper which has a slowly-revolving fluted roll to force-feed the commodity between the roll and a special tough fibre brush to prevent clogging and to maintain a steady, even flow of grain across the full top screen width.

2. **Aspirating**—The large suction fan, installed directly in the center of the cleaner, draws air up through the hopper air passage and through the seed to remove the lightweight trash before it reaches the top screen. The heavier trash taken out by this fan settles in the large settling chamber and discharges into a pan mounted on the top shoe from which it is directed to the catch-all spout at the back of the cleaner. The light dust is blown into the dust house or cyclone collector. This fan is quickly and easily adjusted by a control located near the discharge spout.

3. **Scalping**—The top 54" x 60" screen "scalps off" large sticks, stems, stones, and other large bulky trash into a catch-all spout discharging across the full screen width. The commodity drops through this screen and is conducted by the pan underneath to the top of the bottom 54" x 60" finishing screen.

4. **Finishing**—The bottom 54" x 60" finishing screen holds up the good commodity and drops the broken, undersized, and poor germinative kernels and other small foreign material to a pan underneath.

5. The material which drops through the bottom finishing screen discharges into the spout at the side of the cleaner.

6. The cleaned commodity passes over the bottom screen and discharges into the tapered discharge spout which has a 6" x 12" opening 2 inches above the floor.

For more than double this capacity, see the Super 2248-D story on pages 21 and 22.

SPECIFICATIONS AND CAPACITIES

Screen size	54" x 60"
Bushels per hour—Grain	1,000
Number of screens in cleaner	2
Number of screens furnished	6
Extreme height (add 18" if motor is top mounted)	85"
Extreme length	102½"
Extreme width	77"
Length on floor	102½"
Width on floor	68"
Width between sills	58"
Height to where grain enters	85"
Height to drive pulley	68½"
Drive pulley speed (R.P.M.)	900
Horsepower required	5
Shipping weight (lbs.)	2,340

Drive shaft diameter — 1⅛ inches.