

The Clipper DEBEARDER

HANDLES A WIDE VARIETY OF JOBS WITH EASE

The **CLIPPER** Debearder was designed primarily to debeard barley, but—it has since become *one of the most versatile machines* in the entire Clipper line! Available with direct drive or with variable speed drive as illustrated.

- Debeard barley — improve appearance of product.
- * Clip oats—polish and raise test weight.
- Break up alfalfa pods—grass clusters—flax balls—crested wheat—fescues—brome—cassia (cinnamon) bark.
- De-awn broncho grass (in oats)—dill seed—celery seed—anise seed—weed seeds.
- Polish and remove mold from pepper balls—coffee beans—cassia (cinnamon) bark.
- Break up doubles and polish tomato seed and various vine seeds.
- Partially decorticate sugar beet seed.
- De-whisker carrot seed.
- Hull "whitecaps" in wheat—subterranean clover.
- De-wing tree seeds.
- And many seeds other than these listed above can be similarly rubbed, polished and de-awned—send two ounce sample for our examination and report.

* It is widely used throughout the nation for Clipping various classes of oats —

Seed Oats—making them easier to drill, easier and faster to clean, raising test weight, polishing and improving appearance.

Market Oats—by clipping lightly test weight is increased and appearance is enhanced.

Poultry and Race Horse Oats—removing excess fibres, adding a polished lustre increasing the value of product.

Clipping Oats with tender hulls which require extreme care during processing to minimize hull breakage.

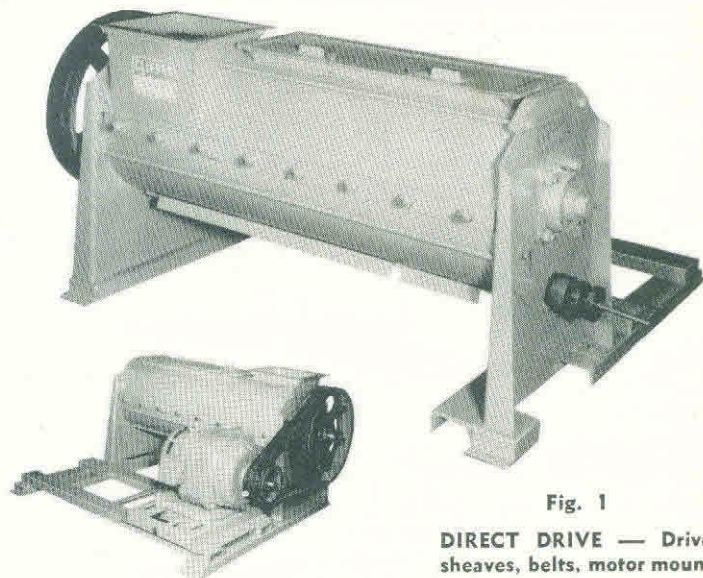


Fig. 1

DIRECT DRIVE — Drive sheaves, belts, motor mount and motor extra.

Back View

The Clipper Principle

It operates by means of multiple steel beater arms rotating among similar stationary arms. These bars are completely edged with a super hard material to resist wear. They are factory installed on a 15° angle which serves to rub the commodity, as well as to convey it through the machine. The pitch of each arm is adjustable where more or less threshing action is essential — merely by installing it on the opposite side of the central shaft positioned to the desired angle.

Figure 3 illustrates the beater arrangement.

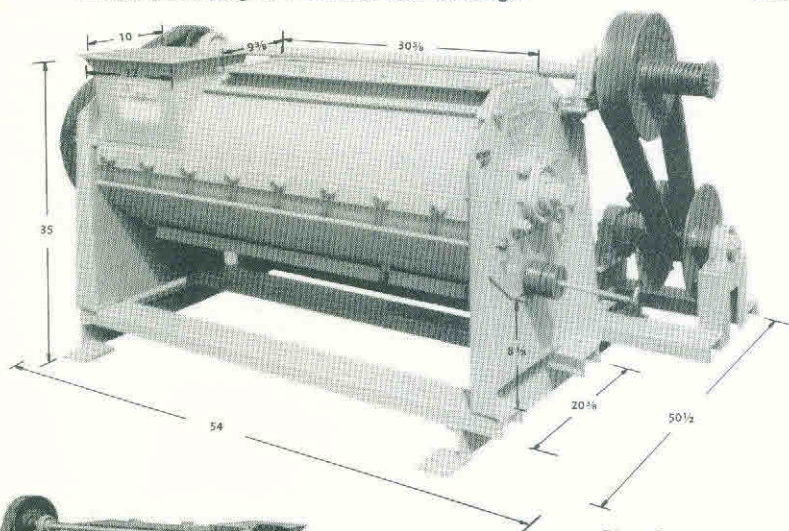
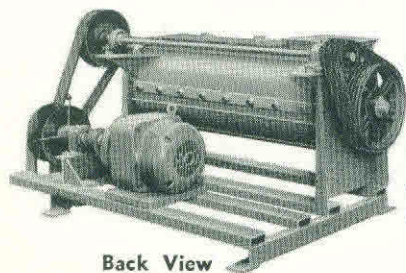


Fig. 2

VARIABLE DRIVE—all drive components furnished — motor extra.

Variable Drive is a MUST if it is to be used for multi-purpose work as in processing various commodities which require specific speeds.



Back View

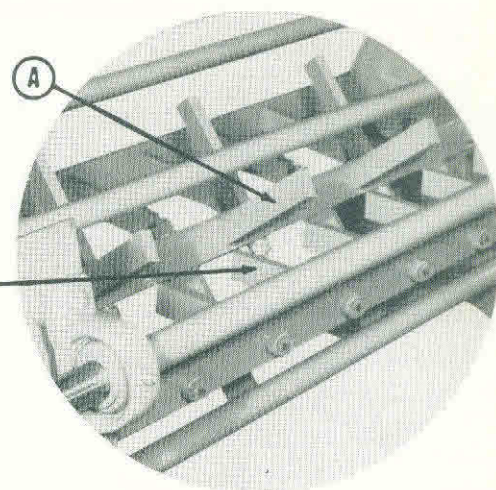


Fig. 3

- A. Rotating beater arm.
- B. Stationary beater arm.

SEE OTHER SIDE OF SHEET FOR FEATURES, SPECIFICATIONS, ACCESSORIES

FEATURES—SPECIFICATIONS—CAPACITIES

DUST COLLECTING SYSTEM

FEATURES INCLUDE:

- Various new uses for the machine have brought about the need for greater horsepower and heavier construction. Heavier shafting, larger bearings and special beaters are now incorporated in standard construction.
- Offset feed inlet, which introduces the commodity to the beaters in the direction that the arms rotate. **This permits feeding of very trashy material.**
- (Special Feature)—The entire bottom of the machine can be quickly opened for complete, fast, easy cleanout. Bottom discharge slide **permits safe handling of fragile seed. Sand is also dropped by this slide.**
- The variable drive is optional. It is extremely practical when a **range of speeds is necessary** to process many commodities.
- The Clipper Debearder Dust Collecting System consists of a tailored vacuum dust pick-up arrangement and a collector. It adds to the **convenience, safety and quality** of production. The system is optional. See Figs. 4 and 5.
- The Debearder, like all Clipper products, constantly undergoes improvement. The discharge adjustment has recently been made even more selective by dividing the original sliding weight into three separate units. Three latest additions are:
 1. the new heavy plate steel end frames giving greater unit strength as compared to the former casting.
 2. the new beater arms in which all edges are clad with extra hard material and which are now fastened to the rotor shaft with an extra heavy stud as opposed to the former threaded arm shaft.
 3. and the new sliding door, which fastens with only two wing nuts, giving quick access to the entire interior of the cylinder both for inspection and maintenance purposes.

Specifications

It is very important that the feed inlet to this machine have a slide cut off or other means of feed control so rate of flow will not exceed the discharge capacity. This precaution eliminates motor overloading which in turn reduces the efficiency of the job, cuts capacity and overstresses both the machine and the motor.

Approximate Weight:

Debearder without variable or motor 580 lbs. crated
 Debearder with variable and motor 1,200 lbs. crated

Drive:

The price of Debearder with direct drive does not include drive sheaves, belts, motor or motor mount frame.

The price of Debearder with variable includes everything except the motor as well as the coupling.

Light commodities 7½ H.P. 1750 R.P.M. motor.
 Heavy commodities 10-15-20 H.P. 1750 R.P.M. motor.

- Note: 1. Variable drive will take up to a 10 H.P. as maximum.
 2. If customer uses own motor, specify:
 a) frame size
 b) whether new or old N.E.M.A. specifications
 c) shaft size

Dia. of "C" type sheaves

7½-10-15 H.P. 20" P.D.
 20 H.P. 24" P.D.

Let us recommend the style and horsepower for your work.

CAPACITIES

All processors know that operating speeds and capacities are never constant. Exact settings can only be determined during each run. These approximate figures will serve as a guide:

1. De-beard barley at 550 R.P.M.—output 300 to 450 bushels per hour.
2. Oats—breaks doubles, de-awns, clips glume tips at 550 R.P.M.—output 300 to 500 bushels per hour (variety determines speed).
3. De-awn dill seed at 500 R.P.M.—output 200 pounds per hour.
4. Break up flax balls at 500 R.P.M.—output 250 to 300 bushels per hour.
5. Blue grass (speed not established)—output 150 to 200 pounds per hour.
6. De-fringe carrot seed (approx. speed) 500 R.P.M.—output 1,000 to 2,000 pounds per hour.
7. De-awn water grass (in rice) at 350 R.P.M.—output 200 to 300 bushels per hour.

DEBEARDER DUST COLLECTING SYSTEM

BUILT OF HEAVY ALL-STEEL CONSTRUCTION

This dust system picks up from the hopper and from around the discharge. The Clipper No. 30 Collector is usually mounted nearby outside the processing room.

- Improve working conditions
- Lessens explosion-fire hazards

Legend for Figure 5

- A. Suction pickup
- B. Suction control valves (2)
- C. Feed hopper with screen and baffle
- D. 6" exhaust piping
- E. Clipper Clone No. 30
- F. 4" intake pipe
- G. 1 H.P. 1725 (special mount) motor
- H. 16" base mounted suction fan

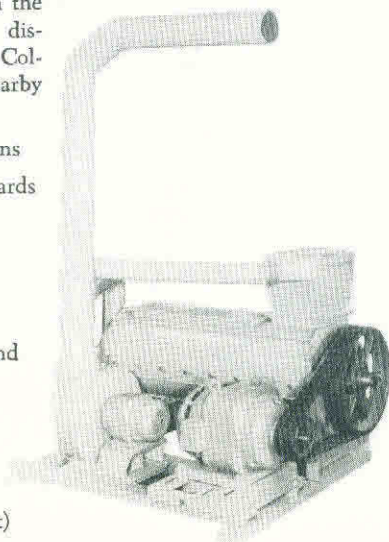


Fig. 4 Direct Drive

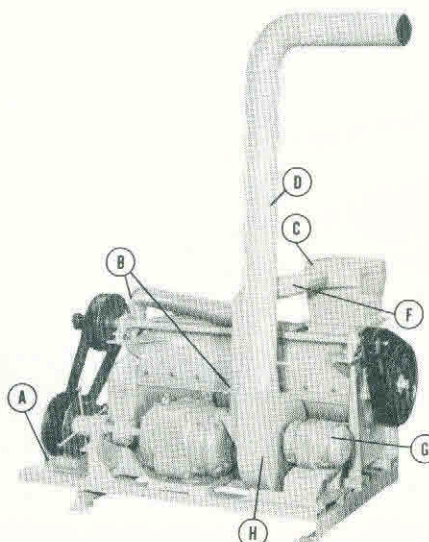


Fig. 5 Variable Drive

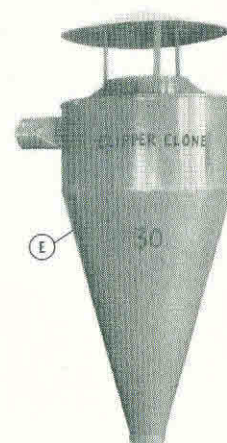


Fig. 6

Sturdy, engineered dust collector.
 Dia.—30 in.
 Length—74 in.
 Intake dia.—6 in.