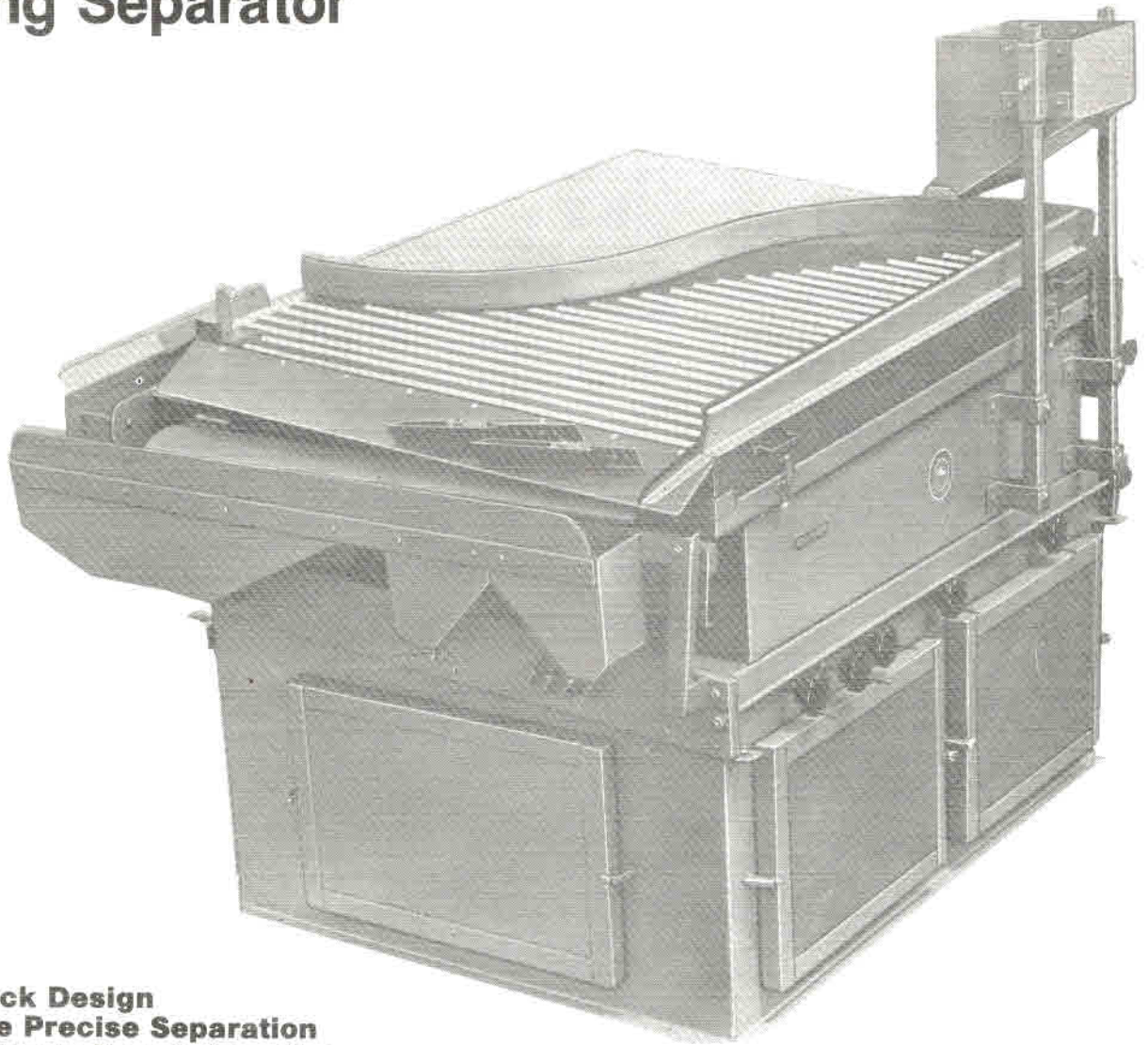


The Oliver Model 316

Finishing Separator



- **Unique Deck Design
Gives More Precise Separation
For Both Heavy & Light Fractions**
- **Outstanding Workmanship & Design**
- **Efficiency & Reliability**
- **More Efficient Than Triangular Deck Separators**
- **Primary • Secondary • Finishing Machine**

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The Oliver Model 316

The Oliver Model 316 Finishing Separator is a versatile, high-accuracy gravity separator with many potential applications: it separates particles that differ in size but maintain the same specific gravity. It is capable of removing a light fraction that is very close in density to a desired heavy fraction. The Model 316 also "finishes" the heavy fraction when a separation requires too close a tolerance for a stoner.

The Model 316 is used in the seed and food processing industries for extremely precise cleaning and grading. (One such application would be the separation of orchard grass seed from fescue.) It also has many industrial applications. For example: effective separations have been obtained when working with ceramic materials, non-ferrous minerals, and a variety of plastics. It may be used for reclaiming both plastic and metal from several waste products.

Unique Deck Design

Engineered to complement the popular HI-Cap series of rectangular deck separators, the Model 316 combines the best features of triangular and rectangular deck separators. Its deck provides the long, light product travel of the rectangular deck, along with the triangular deck's heavy product travel, making the Model 316 the first gravity separator to successfully process both heavy and light fractions. As a result, the Model 316 is an extremely versatile machine, separating light and heavy fractions with equal ease.

More Effective Than Triangular Deck Separators

The Oliver 316 Finishing Separator can do the job of any triangular deck separator of similar capacity. When used as a primary separator for crops like difficult-to-separate grass seed, the Model 316 will out-perform a triangular deck machine of similar capacity, because it features a full 60 inches of light fraction travel, in addition to its 72 inches of heavy fraction travel.

Secondary Machine

The Model 316 can be used to reprocess the middle fraction from a lot processed on one or more high capacity primary separators. Because it is a high precision separator, when the Model 316 is used instead of recirculating the middle fraction, a better separation and greater capacity can be obtained.

Finishing Separator

The Model 316 Finishing Separator was developed to offer the processor a third alternative to a rectangular deck machine (for example: our Model 50) or a triangular deck machine (similar to the original Oliver Model 16). In cases where greater capacity is required, the Oliver 316 can be combined with one of the HI-Cap series producing excellent results.

Outstanding Workmanship & Design

Like the rectangular deck HI-Cap series gravity separators, the Model 316 is built with Oliver's patented multiple fan system. Evenly spaced beneath the deck, the fans are individually adjustable, permitting precise control of the air flow for greatest separation accuracy and highest efficiency. A combination of rigid steel construction and counterbalanced eccentrics eliminates false vibrations, which detract from separation quality and reliability.

All components of the Oliver Model 316, including the motor and fans, are located for ease of installation in a single unit at the base of the machine. Built-in air filters can be removed quickly for cleaning and easy access to the moving parts. The totally enclosed design is safe and convenient.

All adjustments can be made without difficulty while the machine is in operation.

Efficiency & Reliability

The Oliver 316 is the latest member of a distinguished family of gravity separators that traces its heritage back to the legendary Oliver Model 16. Like all Oliver separators, the 316 produces superior separations and works with high efficiency and unmatched reliability—qualities for which Oliver separators have been known since 1930.

Capacities

Capacity in a gravity separator is a function of the difference in specific gravities of the commodities to be separated as well as the particle size. Capacities shown below represent average production where a 10% difference exists. Greater capacity may be achieved if a wider difference exists. Certified seed processors generally run at approximately $\frac{3}{4}$ of the listed capacities. Extremely close separations, where less than 1% difference exists, may be accomplished on Oliver machines. Capacities will drop, however, to as little as $\frac{1}{2}$ of the listed amount. Capacities will always be lower the closer a separation is desired. These estimates are furnished as a guide and should not be taken literally. Due to the wide variation in separation requirements, Oliver Manufacturing Company cannot guarantee these specific capacities. However, these estimates are conservative and have been equalled or exceeded when the gravity separators and other associated equipment has been installed and operated properly.

(All figures in pounds per hour)

LARGE SEED Beans, Corn, Peas 10 Mesh "A" Deck	3000
MEDIUM SEED Wheat, Oats, Corn 16 Mesh "A" Deck	2100
SMALL SEED Alfalfa, Millet, Sesame 30 Mesh "B" Deck	1200
LIGHT SEED Clover, Fescue, Bluegrass Linen "B" Deck	600

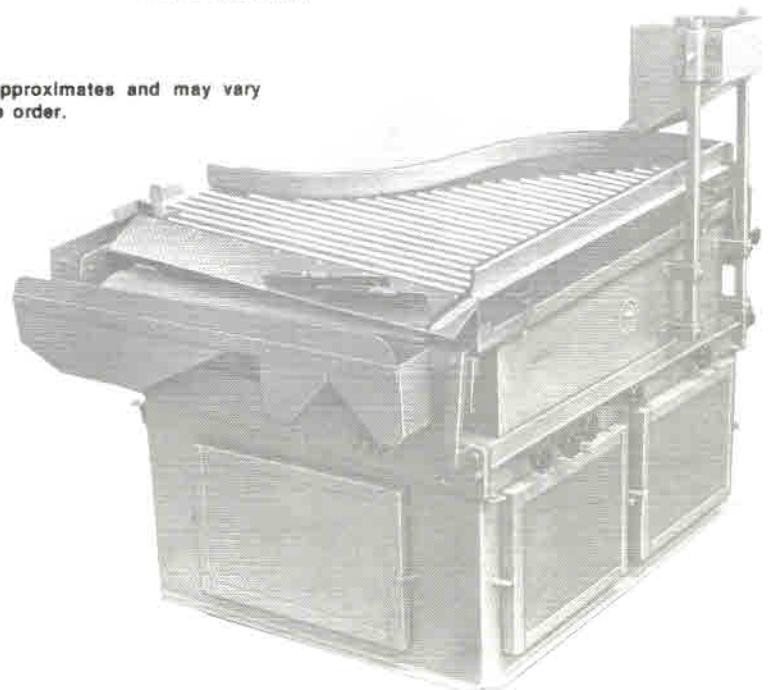
General Specifications

DECK SIZE	48" x 60"
SHIPPING WEIGHT	1200 lbs.
OVERALL DIMENSIONS:	
Length	75"
Width 58" Height (variable)	54"
TO TOP OF FEEDER	65½"
HORSEPOWER (T-frame motors)	5

Export Data

BOX DIMENSIONS:	
Length	76" (193 cm.)
Width	64½" (164 cm.)
Height	62" (157 cm.)
VOLUME:	
Cubic Feet	176 cu. ft.
Cubic Meters	5 cu. m.
NET WEIGHT	950 lbs. (430 kg.)
GROSS WEIGHT	1525 lbs. (690 kg.)

The above are approximates and may vary depending on the order.



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