



Reliable. Accurate. Efficient.

Laboratory Gravity Separator



*\*Machine pictured included configurable options*

# Oliver™

Innovate. Build. Repeat.

# Laboratory Gravity Separator

Separate smaller samples of similar-sized materials (seed, grain, spices, herbs, mineral sands, and more) with outstanding efficiency. Integrating some of the best features of our full-size machines, Oliver's Laboratory Gravity Separator achieves unsurpassed performance in concentrations of high value, low-volume samples. This is the only lab-sized separator durable enough for constant use in Oliver's own R&D testing lab.

## Laboratory Gravity Separator Features:

- ▶ Specialized machine and deck design for small lot processing up to 500lbs/hr.
- ▶ Low noise
- ▶ User-friendly design
- ▶ Electronic control for the most precise fan and eccentric speed adjustment
- ▶ Fast service and technical support from our USA plant
- ▶ One year warranty

## Operations

- ▶ **Control parameters:**
  - Airgates control air volume by zone or area ACM, fan speed adjustment
  - Discharge stream distribution control (all safely adjustable during operations)
  - Eccentric motion speed
  - Side tilt
  - Deck end raise (slope)
  - Product feed rate
- ▶ **Separation range:** < 5% by weight
- ▶ **Dust control:** Aspirating feeder and optional full dust hood with built-in feed and exhaust air adjustment
- ▶ **Discharge hopper configuration:** Standard 3-spout or optional 2-, 4-, or 5-spout hoppers
- ▶ **Maintenance:** Recommended lubrication interval of 12 months or 2,000 hours of operation.

## Options include:

- ▶ Coated, stainless steel, ISO-flex overcovers
- ▶ Installation-ready single point connection electrical panels
- ▶ Capacity reduction board
- ▶ Worldwide motor voltages
- ▶ Vibratory feeders
- ▶ Stainless steel contact points for food applications



Oliver Laboratory Gravity Separator 31ACM

What else can your Oliver do? Find out at [olivermanufacturing.com](http://olivermanufacturing.com).

# Specifications

<b>Machine model ▶</b>	<b>31ACM</b>
Height	54" (137 cm)
Width	42 (107 cm)
Length	42 (107 cm)
Weight	820 lbs (372 kg)
Deck area	30" x 36" (76cm x 91cm)
Amp draw @480/3/60	9 amps
Fan motor horsepower	2 hp (1.49 kW)
Deck motor horsepower	1 hp (0.745 kW)
Warranty	1 year



# Capacity

Machine model ▶	Particle	31ACM	
		Pounds Hr.	Kilograms Hr.
Almonds	1/4" – 3/8"	500	227
Beans	1/4" – 3/8"	500	227
Coffee	1/4" – 3/8"	500	227
Corn	1/4" – 3/8"	500	227
Peas	1/4" – 3/8"	500	227
Cereal grains	1/8" – 1/4"	250	113
Corn	1/8" – 1/4"	250	113
Oats	1/8" – 1/4"	250	113
Wheat	1/8" – 1/4"	250	113
Alfalfa	1/16" – 1/8"	100	45
Millet	1/16" – 1/8"	100	45
Sesame	1/16" – 1/8"	100	45
Bluegrass	≤1/16"	50	23
Clover	≤1/16"	50	23
Fescue	≤1/16"	50	23



Capacities are based on the following assumptions:

1. Machine feed rate
2. Light fraction to be removed is assumed to be 5% or less of total incoming products
3. Vary depending upon the bulk density of the product
4. These capacities are estimates only and products can be tested and confirmed at the Oliver laboratory

For more product capacities, please contact us.

**Own an Oliver today! Call (719) 254-7813.**



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+1 (719) 254-7813

[olivermanufacturing.com](http://olivermanufacturing.com)

27151 Harris Road, La Junta, CO 81050



@olivermanufacturing



@OliverMFGCO