

HI-CAP GRAVITY SEPARATORS

- Separates greater quantities, faster
- Active counterbalance for smooth operation
- Rectangular deck for optimal dwell time and exposure
- Longest warranty in the industry: 3 years
- Fast service and tech support turnaround from our USA plant

PRECISION SEPARATION OF ANY TYPE OF DRY BULK PARTICLES, LIGHT OR HEAVY, OF SIMILAR SIZE, BY WEIGHT

Separate continuous flow product streams of lighter, variable or similar-sized seed, grain, precious metals, plastics, stone or sand, 1/2" in diameter or less, from heavier (denser) components or contaminants with outstanding efficiency. Add value to a variety of products with the most copied gravity separator worldwide, the all-time leader in customer satisfaction and longevity. Oliver's legendary Hi-Cap Gravity Separator is designed and constructed to deliver decades of reliable and predictable service.



Oliver

Processing for a more productive planet.

Model	50/50 M	80/80 M	160/160 M	240/240 M
Height	54" (137 cm)	54" (137 cm)	54" (137 cm)	55" (140 cm)
Width	43" (109 cm)	49" (125 cm)	55" (140 cm)	58" (147 cm)
Length	75" (191 cm)	87" (221 cm)	105" (267 cm)	140" (355.6 cm)
Deck Size	30" x 60" (75 x 152 cm)	36" x 72" (91 x 183 cm)	42" x 90" (107 x 229 cm)	48" x 118" (122 x 230 cm)
Weight	960 lbs (436 kg)	1,110 lbs (504 kg)	1,300 lbs (590 kg)	1,740 lbs (790 kg)
Shipping Tare	1,410 lbs (640 kg)	1,560 lbs (708 kg)	2,105 lbs (955 kg)	2,590 lbs (1,175 kg)

Machine Specifications	50/50M	80/80M	160/160M	240/240M
Power Requirements @ 480V	10 Amps	13 Amps	18 Amps	23 Amps
Fan Motor Horsepower	5 hp (3.7 kW)	7.5 hp (5.6 kW)	10 hp (7.5 kW)	15 hp (11.2 kW)
Blender Drive Motor Horsepower	1 hp (.75 kW)			
Fans:	Multiple fan air supply Individually adjustable for airflow volume Patented fan design for optimal particle concentration			
Screen Options:	Mild Steel, coated steel and coated mesh Tonne-Cap Stainless Steel available for edible products Ise-Flex Overcover			

"M" Denotes Master Series, and includes the following key features designed for quicker installation, smoother service, easier operation and increased longevity:

- **Opti-Drive** VFD control for deck eccentric speed
- **Active Counterbalance** for smoother operation with less vibration
- **Indicator Gauges** for side and length inclination, feed flow, air pressure and eccentric speed
- Square-to-Round **Discharge Hopper** transition for gentler product handling and easier hookup
- **Aspirating Feeder** removes fine particles and keeps air clean

Operations

Control Parameters:	Air gates control air volume by zone, area Discharge Stream distribution control High Side material bypass gates for process optimization Eccentric motion speed Side tilt Deck end raise (Slope) Product feed rate (All safely adjustable during operation)
Separation Range:	<5 %, by weight (<less than 0.5% by weight if properly sized) Machine available in 2 configurations depending on light or heavy material configurations. A for Heavy B for light, reduced fan speed different deck configuration
Dust Control:	Aspirating Feeder Optional Full or Partial Dust Hood with exhaust air adjustments
Discharge Hopper Configuration:	Standard: Three spout Optional: 2-, 4-, or 5-spout hoppers
Maintenance:	Recommended lubrication interval: 12 months or 2,000 hours of operation
Warranty:	3 Years – longest in the industry

Performance Capacity, Air Flow Requirements

Agricultural Material	50/50M	80/80M	160/160M	240/240M
Large Particle (1/4"-3/8") Beans, Corn, Peas, Coffee, Almonds (10 Mesh "A" Deck)	3,500 lbs/hr 8,500 CFM	6,000 lbs/hr 9,600 CFM	10,000 lbs/hr 12,500 CFM	15,000 lbs/hr 18,000 CFM
Med. Particle (1/8"-1/4") Wheat, Oats, Corn	2,500 lbs/hr 5,500 CFM	4,000 lbs/hr 7,600 CFM	7,000 lbs/hr 8,750 CFM	10,000 lbs/hr 10,000 CFM
Small Particle (1/16"-1/8") Alfalfa, Millet, Sesame	1,400 lbs/hr 2,750 CFM	2,400 lbs/hr 4,400 CFM	3,500 lbs/hr 6,250 CFM	5,000 lbs/hr 8,200 CFM

*Cereal grains demonstrate a wide variation in processing. Air Volume and Capacity vary according to density (which varies from over 60 pounds per bushel down to less than 30) and size (which varies more than ±50%).

*Sunflowers, oilseed or confectionary, are also difficult to quantify consistently, with major variations in size and density.

Options include:

- Variable Frequency Drive of fans
- Coated, Stainless Steel, Ise-Flex, or Tonne-Cap Over covers
- Full or Partial Dust hoods
- Worldwide motor voltages
- Installation-Ready Single point Connection Electrical panels
- Vibratory or Accu-Flo Pneumatic feeders
- All Stainless Steel contact points available for food applications