

HI-CAP GRAVITY SEPARATORS

Oliver™

Processing for a more productive planet.

RELIABILITY AND CONTROL IN A HIGHLY ACCURATE SEPARATOR

Separate continuous flow product streams of lighter, variable or similar-sized seed, grain, precious metals, plastics, stone or sand, ½" 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.

- 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



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)

HI-CAP GRAVITY SEPARATORS

Machine specifications	50/50 M	80/80 M	160/160 M	240/240 M
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 (0.75 kW)	1 hp (0.75 kW)	1 hp (0.75 kW)	1 hp (0.75 kW)
Fans	<ul style="list-style-type: none"> • Multiple fan air supply • Individually adjustable for airflow volume • Patented fan design for optimal particle concentration 			
Screen options	<ul style="list-style-type: none"> • Mild steel, coated steel and coated mesh Tonne-Cap • Stainless steel available for edible products • Iso-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	<ul style="list-style-type: none"> • Air gates control air volume by zone and area • Discharge stream distribution control • High side material bypass gates for process optimization 	<ul style="list-style-type: none"> • Eccentric motion speed • Side tilt • Deck end raise (slope) • Product feed rate (All safely adjustable during operation)
Separation range	<ul style="list-style-type: none"> • <5% by weight (less than 0.5% by weight if properly sized) • Machine available in 2 configurations depending on light or heavy material configurations: <ul style="list-style-type: none"> – "A" for heavy – "B" for light, reduced fan speed, different deck configuration 	
Dust control	<ul style="list-style-type: none"> • Aspirating feeder • Optional full or partial dust hood with exhaust air adjustments 	
Discharge hopper configuration	• Standard — 3-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	50/50 M	80/80 M	160/160 M	240/240 M
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
Medium particle (1/8" – 1/4") Wheat, oats, corn, cereal grains	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

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

Options include

- Variable frequency drive of fans
- Coated, stainless steel, Iso-Flex or Tonne-Cap overcovers
- Full or partial dust hoods
- Installation-ready single point connection electrical panels
- Worldwide motor voltages
- Vibratory or Accu-Flo pneumatic feeders
- All stainless steel contact points available for food applications