HI-CAP GRAVITY SEPARATORS

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

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

olivermanufacturing.com
## HI-CAP GRAVITY SEPARATORS

### Machine specifications

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Power requirements @ 480v</td>
<td>10 Amps</td>
<td>13 Amps</td>
<td>18 Amps</td>
<td>23 Amps</td>
</tr>
<tr>
<td>Fan motor horsepower</td>
<td>5 hp (3.7 kW)</td>
<td>7.5 hp (5.6 kW)</td>
<td>10 hp (7.5 kW)</td>
<td>15 hp (11.2 kW)</td>
</tr>
<tr>
<td>Blender drive motor horsepower</td>
<td>1 hp (0.75 kW)</td>
<td>1 hp (0.75 kW)</td>
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</tr>
</tbody>
</table>
| 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  
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 | Air gates control air volume by zone and 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 — 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

<table>
<thead>
<tr>
<th>Agricultural material</th>
<th>50/50 M</th>
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<th>160/160 M</th>
<th>240/240 M</th>
</tr>
</thead>
</table>
| Large particle (1/4" – 3/8") | 3,500 lbs / hr  
8,500 CFM |
| 3,500 lbs / hr  
8,500 CFM |
| 10,000 lbs / hr  
12,500 CFM |
| 15,000 lbs / hr  
18,000 CFM |
| Medium particle (1/8" – 1/4") | 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") | 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