

MAXI-CAP PLATINUM GRAVITY SEPARATOR

OliverTM
Processing for a more productive planet.

AUTOMATION IN A MAXIMUM-CAPACITY GRAVITY SEPARATOR

Maxi-Cap Platinum adds one-touch power electronic control and repeatable memory to a proven separator platform capable of separating up to 40,000 lbs. of material an hour. Never before have setup, cleanup and changeover been so quick and straightforward, even for a minimally trained operator. And thanks to legendary Oliver durability, your profitability starts the day you install.

- Computerized touch screen
- Continuous independent variable fan control
- Joystick-controlled 4-way deck tilt
- Position control sensors
- Allen-Bradley microprocessor control
- Memorized settings and cleanout routines



Model	2400	3000	3600	4800
Height	92" (234 cm)	96" (244 cm)	96" (244 cm)	102" (259 cm)
Width	100" (254 cm)	108" (274 cm)	112" (284 cm)	124" (315 cm)
Length	134" (340 cm)	135" (343 cm)	158" (401 cm)	194" (493 cm)
Deck size	48" x 120" (122 x 305 cm)	60" x 120" (152 x 305 cm)	60" x 144" (152 x 366 cm)	72" x 180" (183 x 457 cm)
Weight	5,000 lbs (2,268 kg)	5,400 lbs (2,450 kg)	5,800 lbs (2,631 kg)	7,600 lbs (3,448 kg)
Shipping tare	6,400 lbs (2,903 kg)	6,800 lbs (3,085 kg)	7,200 lbs (3,266 kg)	9,000 lbs (4,082 kg)

THE MAXI-CAP PLATINUM SERIES

The Oliver Maxi-Cap Platinum series brings the safety, simplicity and efficiency of integrated control to one of the most reliable gravity separators ever made. The Platinum is an evolved Maxi-Cap with the addition of a Programmable Logic Controller (PLC) and touch screen, which provide a central interface for operating control over all adjustment parameters. These programmable automation controls provide simplified operation, reduce yield losses due to human error and can integrate Oliver machines into automated processing facilities. Continuous control over feed rates, pinpoint air flow and 4-way deck tilt combine for the most precise separation and highest quality end product possible.



PRECISION OPERATOR CONTROL

By combining the control over all parameters into a centralized graphic interface, Oliver has simplified training, setup and operation. A 6-inch touch screen governs air flow, eccentric vibration, side tilt, end raise and feed rate. A power-assisted joystick provides 4-way control over deck angle. Together, they make adjustment instantaneous and eliminate the need for the operator to move to different parts of the machine to make adjustments.

PROGRAMMABLE MEMORY

The Allen-Bradley PLC stores and retrieves parameter settings for up to 20 different material processing “recipes” plus an automated machine cleanout routine. Recipes can be memorized during actual operation or downloaded from the manufacturer from among dozens in popular use. Memorized settings:

- Provide outstanding consistency regardless of the training or experience level of the operator
- Ensure more uniform quality in the finished product
- Reduce the loss of acceptable material



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PRE-WIRED PLANT INTEGRATION

Pre-wiring means the machine can be installed with a single electrical connection to a power source. In addition, integration with plant automation is accomplished with a single ethernet connection to the central control network. For safety and convenient maintenance, all memory and control automation is housed together in a dust-tight and splash-proof NEMA 12 electrical cabinet. All electronics come with a 3-year warranty when factory installed, versus the industry standard of 1 year.

- Factory wiring provides simplified installation.
- Single network connection simplifies plant process integration.
- Single point connections minimize installation time, effort and speed of return on investment.

In addition, all electrical components are UL listed, meet or exceed national electrical code and come with the full backing of the Rockwell Technical Support Team.



MAXI-CAP PLATINUM GRAVITY SEPARATOR

Machine specifications	2400	3000	3600	4800
Power requirements @ 480v	51 Amps	51 Amps	64 Amps	79 Amps
Fan motor power	2 – 7.5 hp (5.5 kW) 1 – 5 hp (4.0 kW)	2 – 7.5 hp (5.5 kW) 1 – 5 hp (4.0 kW)	2 – 7.5 hp (5.5 kW) 2 – 5 hp (4.0 kW)	3 – 7.5 hp (5.5 kW) 2 – 5 hp (4.0 kW)
Deck motor power	1.5 hp (1.1 kW)	1.5 hp (1.1 kW)	1.5 hp (1.1 kW)	1.5 hp (1.1 kW)
Blender drive motor horsepower	1 hp (.75 kW)	1 hp (.75 kW)	1 hp (.75 kW)	1 hp (.75 kW)
Hydraulic pump	0.5 hp (.37 kW)	0.5 hp (.37 kW)	0.5 hp (.37 kW)	0.5 hp (.37 kW)
Fans	<ul style="list-style-type: none"> Multiple fan air supply Individually adjustable for air volume, distribution, speed and airflow Patented fan design for optimal particle concentration 			
Safety	<ul style="list-style-type: none"> Wiring protection Fully enclosed rotating assemblies OSHA compliant machine guarding OSHA compliant catwalks with handrails E-stop system Safe-off drives 			
Screen options	<ul style="list-style-type: none"> Carbon steel, coated steel and mesh Tonne-Cap ISE-flex overcover Stainless steel available for edible products 			

Operations

Control parameters	<ul style="list-style-type: none"> Touch screen controlled fan speeds, deck side tilt, end raise (slope), deck speed, product feed rate High side material bypass gates for process optimization (All safely adjustable during operation)
Separation range	<ul style="list-style-type: none"> <5% by weight
Dust control	<ul style="list-style-type: none"> Aspirating feeder Optional full or partial dust hood with built-in feed and exhaust air adjustments
Discharge hopper configuration	<ul style="list-style-type: none"> Standard — 3-spout Optional — 2-, 4- or 5-spout hoppers
Maintenance	<ul style="list-style-type: none"> Recommended lubrication interval — 12 months or 2,000 hours
Warranty	<ul style="list-style-type: none"> 3 years — longest in the industry

Performance — capacity, air flow requirements

Agricultural material	2400	3000	3600	4800
Large particle (1/4" – 3/8")	15,000 lbs / hr	18,000 lbs / hr	27,000 lbs / hr	40,000 lbs / hr
Coffee, green beans	16,000 CFM	18,000 CFM	22,000 CFM	28,000 CFM
Large particle (1/4" – 3/8")	15,000 lbs / hr	22,000 lbs / hr	30,000 lbs / hr	42,000 lbs / hr
Beans, corn, peas, almonds (10 mesh deck)	16,000 CFM	18,000 CFM	22,000 CFM	28,000 CFM
Medium particle (1/8" – 1/4")	12,000 lbs / hr	16,000 lbs / hr	24,000 lbs / hr	33,000 lbs / hr
Wheat, oats, corn (16 mesh)	10,000 CFM	12,000 CFM	15,000 CFM	20,000 CFM
Small particle (1/16" – 1/8")	5,000 lbs / hr	7,000 lbs / hr	10,000 lbs / hr	12,000 lbs / hr
Alfalfa, millet, sesame (30 mesh)	6,000 CFM	7,000 CFM	10,000 CFM	14,000 CFM

*Cereal grains are a class of their own. Weight varies from 60 lb / Bu to 30 lb / Bu. Size variation is greater than 2:1 depending on commodity. Capacities vary with size and density.

*Sunflowers, oilseed and confectionery, are also a special class. Weights from 40 – 15 lb / Bu and sizes from 3/4" down to 1/4". Capacity based on experience.

Options include

- Coated, stainless steel, ISE-flex, or Tonne-Cap overcovers
- Full or partial dust hoods
- Worldwide motor voltages
- Vibratory or Accu-Flo feeders
- All stainless steel contact points for food applications
- Custom discharge hoppers
- Custom catwalks
- Custom discharge hoppers
- Available as right or left hand configuration



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