

Oliver

Maxi-Cap Platinum



AUTOMATION IN A HIGH-CAPACITY GRAVITY SEPARATOR

An overview of the technology features of the automated Oliver Maxi-Cap Platinum gravity separator (also known as air table or gravity table). The Platinum series is an evolved Maxi-Cap with the addition of PLC (Programmable Logic Control), providing a central interface for operating control over all adjustment parameters.

Oliver has added programmable automation controls to the popular Maxi-Cap to accomplish three goals:

- Simplified operation
- Reduced yield losses due to human error
- Integration into automated processing facilities



Oliver
Advancing the Science of Separation.



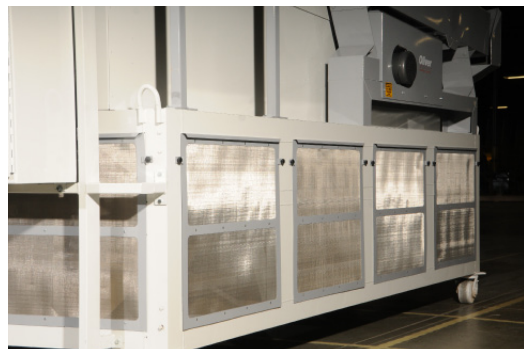
PRECISION OPERATOR CONTROL

By combining control over all parameters into a centralized Allen-Bradley™ 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. It also provides continuous real-time readings from multiple sensors. 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.

- Concentration of control parameters maximizes the full potential of production resources.
- Digital readout of adjustment parameters increases consistency.
- Direct hydraulic and power control provides immediate feedback during setup and fine tuning.
- Individually adjustable fans provide unexcelled accuracy.
- Instant adjustment improves efficiency and ease of use.
- Stop and Restart controls integrate with feed bin level sensors and are available for multiple other parameters.

PROGRAMMABLE MEMORY

An Allen-Bradley programmable memory controller 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.
- More consistent control settings ensure more uniform quality in finished product, and reduce the loss of acceptable material.
- Memorized cleanout routine speeds and simplifies switchover between products.
- Login function ensures accountability to operational settings and is integral to maintaining quality assurance.

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 device network. For safety and convenient maintenance, all memory and control automation is housed together, in a NEMA 12 electrical cabinet.

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

All electronics come with a 3-year warranty when factory installed, versus the industry standard of 1-year. All electrical components are UL listed, meet or exceed national electrical code and come with the full backing of the Rockwell Technical Support Team. Oliver is part of the Rockwell Automation OEM Machine Builder Program.

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. Oliver Maxi-Cap Platinum and all electronics come with a 3-year warranty, the longest offered in the industry. 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.

- Computerized Touch Screen
- Continuous Independent Variable Fan Control
- Joystick-Controlled 4-way Deck Tilt
- Remote Position Control Sensors
- Surge Bin Level Shutoff and Startup
- Allen-Bradley™ Microprocessor Control
- Memorized Settings
- Supervisory Control over all Settings





MODEL CHOICES:

Model	Deck Size	Output Range
Model 3000	60" x 120"	7,000-22,000 lbs/hr
Model 3600	60" x 144"	10,000-30,000 lbs/hr
Model 4800	72" x 180"	12,000-42,000 lbs/hr

ELECTRONICS

6" Color Touch Screen
4-way Deck Adjustment Joystick
Programmable Logic Processors (PLC)
Variable Frequency Drive (VFD) Fan Motors
Automated Adjustment Controls:

- Deck Tilt/End Raise
- Air Rate
- Product feed rate
- Eccentric motion
- Cleanout

Mechanically Integrated Deck Position Sensors
BALDOR™ Premium efficiency motors
Plant Process Integration Interface:
Ethernet

Oliver Manufacturing

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PATENT PENDING
U.S. PATENT 6,343,234 B1
U.S. PATENT 4,793,918

Memorized Routine Download Interface:
Ethernet
NEMA 12 Electrical Cabinet (Dust-Tight and
Splash-Proof)
All electrical components UL™ Listed
Main Fuse Disconnect allows for lock-out tag out
(LOTO)
Available Integratable Emergency Stop Systems
can be programmed for multiple parameters
Individual Branch Circuit Protection for each
motor meets National Electrical Code

*Oliver products and sourced components are
assembled in the USA.*

Oliver is a recognized partner of Rockwell
Automation OEM Machine Builder Program.
Full backing of Rockwell Tech Support Team is
available, for ease of integration in customizing.

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