



PROCESSING EQUIPMENT

DRYERS

Fluid Bed Dryer DVX

Gravity Separator

Hi Cap Voyager Standard Maxi Cap Maxi Cap Platinum

Sizers

1, 2, 4, or 6 Cylinders

Destoners

Hi Cap

Maxi Cap

Westrup

Pre- Fine Cleaners

Indented Cylinders

Other Equipment

Norogard

Batch Treater

Continuous Flow

DESTONERS

Hi Cap Destoners

With the use of our patented series fans we produce uniform distribution of air through the deck. Using control gates and under-deck diffuser ensures the correct air volume to make distinct product separation. A multiple throat deck design permits more precise machine adjustment and control, while the dust hood provides built-in feed and exhaust air controls. Large windows permit constant visual inspection of the product. It also had easy machine adjustments (simple screw or clamp type) that allow you to have minimal workman training and supervision.

Maxi Cap Destoners

This machine has a multiple fan system that allows for precise separation at a higher efficiency and a dust control hood that makes it possible to inspect the separation as it is doing its job. Greater capacity of up to 60,000 lbs. with the active counterbalance gives the machine smoother operation with less vibration at a higher output rate.

MACHINE MODEL			6048		4848		3648		2448
Products	Bulk Density (lbs/bu)	Rated capacity (lbs/hr)	CFM	Rated capacity (lbs/hr)	CFM	Rated capacity (lbs/hr)	CFM	Rated capacity (lbs/hr)	CFM
Corn	56	15,000	7,000	10,000	5,500	5,000	4,500	2,500	2,500
Popcorn	56	12,000	7,000	8,000	5,500	4,000	4,500	2,000	2,500
Soybeans	60	15,000	7,000	10,000	5,500	5,000	4,500	2,500	2,500
Peas	60	12,000	7,000	8,000	5,500	4,000	4,500	2,000	2,500
Lentils	60	12,000	7,000	8,000	5,500	4,000	4,500	2,000	2,500
Pinto Beans	60	12,000	7,000	8,000	5,500	4,000	4,500	2,000	2,500
Garbanzo Beans	63	12,000	7,000	8,000	5,500	4,000	4,500	2,000	2,500
Red Kidney	58	12,000	7,000	8,000	5,500	4,000	4,500	2,000	2,500
Black Beans	58	12,000	7,000	8,000	5,500	4,000	4,500	2,000	2,500

Model	305	605	905	1205
Height	96" (244 cm)	96" (244 cm)	96" (244 cm)	96" (244 cm)
Width	54" (137 cm)	90" (229 cm)	126" (320 cm)	162" (412 cm)
Length	92" (234 cm)	92" (234 cm)	92" (234 cm)	92" (234 cm)
Weight	1,700 lbs (771 kg)	3,200 lbs (1,451 kg)	4,800 lbs (2,177 kg)	6,300 lbs (2,857 kg)
Shipping Tare	2,000 lbs (907 kg)	3,500 lbs (1,588 kg)	5,000 lbs (2,267 kg)	6,600 lbs (2,993 kg)





SIZERIGHT PRECISION SIZER

MODELS SR 1, SR 2, SR 4, SR 6

Perform product refinement and product cleansing with unparalleled accuracy. Oliver sets the standard in safety and precision with the SIZE RIGHT®Precision Sizer. Our custom cylinder screen fabrication enables sorting capacity with the closest tolerances available: down to 0.003" (3/1000").

Optional advanced dual mode screen cleaning (standard flappers with optional pressure rollers) assures maximum throughput and accuracy. Oliver offers a wide selection of models and a stackable modular design to help customize precisionsizing capacity for each application. Outstanding performance provides the best possible results from downstream gravity separation.

- Heavy-duty, long-lasting components
- Most accurate cylinder screen tolerances available, with certified precision accuracy gauges
- All moving parts protected behind optional quick release, auto-shutoff safety doors



- •Real-time digital speed control and RPM readout
- Optional dual mode cleaning and cleanout system
- •Fast service and tech support turnaround from our USA plant

Performance						
	5% Thrus		50% Thrus		95% Thrus	
Material	Bu/Hr	MT/Hr	Bu/Hr	MT/Hr	Bu/Hr	MT / Hr
Corn, round	45	1.14	75	1.90	90	2.28
Corn, slot	25	0.63	40	1.02	60	1.52
Peanuts, round	20	0.23	25	0.29	40	0.46
Peanuts, slot	25	0.30	50	0.59	75	0.85
Sunflower, round	10	0.14	15	0.22	20	0.29
Sunflower, slot	15	0.22	20	0.29	50	0.73
Rice, round	10	0.20	n/a	n/a	20	0.41
Rice, slot	30	0.60	n/a	n/a	50	1.00

GRAVITY SEPARATOR

MAXI CAP PLATINUM: 4600P, 3600P MAXI CAP GRAVITY: 4800, 3600

VOYAGER GRAVITY: GVX 1020, GVX 1040, GVX 1050

HI CAP GRAVITY: HC 51, HC 81, HC 161, HC 241 LABORATORY HI CAP GRAVITY SEPARATOR: 31



Laboratory Hi Cap Gravity Separator

The user-friendly design of the laboratory gravity table integrates many of the top features and elements of larger Oliver machines for dynamic and efficient results. The Oliver Laboratory Separator consistently provides engineers with data necessary to accurately predict the expected outcomes of larger production setups in the seed, nut, lumber, mining and recycling industries.

Maxi Cap Platinum

Dynamic controls are side tilt, end raise, airflow, eccentric, speed, product feed rate. Includes a touchscreen control platform (PLC) to control airflow, deck, eccentric speed, feed rate, and recipe load/save features. The rectangular deck design with custom overcover and undercover, allows for maximum product separation time. This machine has reduced machine setup time as well as product cleanout. This machine is counterbalanced for a smooth operation and has a low noise for operator level at 88dB. The efficient air zone control on this machine starts at initial stratification through final discharge.

Maxi Cap Gravity

UL and CUL electrical cabinets are available for efficient machine installation and wiring. Durable coated overcover material, machine setting indicators, Variable Frequency Drives (VFD), Vibratory or Accu-Flo feed gate, discharge options, full or partial dust hood, stainless steel available for food grade products, custom catwalks, square-to-round discharge and other options available. Platinum Package available (power hydraulics, indicator gauges, process automation, and memory recall for all controls)

Voyager Gravity Separator

Decks are designed and built to spec with custom over cover and under cover for your product. Integration with Plant SCADA is available. Customizable Options include; discharge hopper, partial or full dust hoods, vibratory feeder, deck options, recipe development, stainless steel contact points, and control packages. Modular deck upgrade makes for ease of maintenance and quick change over from product to product and deck to deck. Increase the total tilt of the deck with hydraulic cylinder options

Hi Cap Gravity

Separates products efficiently. Rectangular deck design allows for maximum product separation time. Wide range of deck eccentric speed to optimize separation performance. Efficient air zone control from initial stratification through final discharge. Decks are designed and built to your product specifications with custom overcover and undercover.

FLUIDIZED BED DRYER-DELUXE/ BASIC MODELS

MODELS DVX 304, DVX 307, DVX 410, DVX 512, DVX 616

Purpose	Drying
Industry	Food, Seed and Grain
Capacity	Medium
Technology	Manual

Oliver Fluidized Bed Dryers remove the moisture to keep your seed treating and packaging process in motion. Make the most of treatments with the technology that speeds your process and makes seeds look, move and perform the way they should. Oliver Fluidized Bed Dryers Prevent product clumping simplify cleanup and improve finished appearance while cutting dry time to a fraction. Available in fully automated versions, the Fluidized Bed Dryer helps yo accelerate your process and get full value from the latest seed processing applications.

- Improve coating and treatment effectiveness and appearance
- Maintain flow throughout the process
- Minimize cleanup,, eliminate clumping
- Significantly improve the treating and packaging process
- Add value and performance



Model	307	410	512	616 (catwalk included)
Height with dust hood	82″	90″	94″	105"
Width with electrical panel	66"	60″	70″	110
Length	117″	144"	174″	260"
Deck Size	36" x 84"	48" x 120"	60" x 144"	72" x 207"
Weight	2850 lbs	4,000 lbs	5,600 lbs	7,600 lbs

WESTRUP





Indented Cylinders

MODELS H-500x1000/ 1500 /1900 /2500

TR-620/625/630/725/730/930/940/1240/1250

The H-500 indented cylinder is a modular unit that can be used as a single machine or built together in different combinations. Meaning, the capacities in the exsisting plants can be increased at any time by adding one or more cylinders. In standard construction, the H-500 indented cylinders are delivered with the following features. The machine is exchangeable mantle and safety access doors. With fixed spead drive, gear motor, and made of steel construction.

The TR indented cylinder is a modular unit that can be used as a single machine or built together in different combinations. Capacities in exsisting plants can be increased at any time by adding one or more cylinders. The standard construction of a TR indented cylinder has infinitely adjustable trough position, exchangeable two, three or fourparted mantle, fixed speed drive/ gear motor, and safety access doors.

Modular Cleaners

Our modular system offers you a choice of more than 60 different modules; combined with many special features you can design your own cleaner that suits your specific cleaning and capacity requirements. The modular system is future-proof by allowing easy upgrades or change of specifications according to your future requirements, and with a high flexibility in the selection of the optimum screen flow.







Pre Cleaner and Fine Cleaners

FAU -1000, 1250, 1500

Types of processes available: Separation by size (width);

Removal of foreign matter or contaminants with unusual processes;

Removal of tips, edges and shells;

Detachment of grains of vegetable structure;

Polishing grains

Capacity: From small quantities to large capacities

The FAU fine cleaner is designed to be the primary air/screen cleaner for ultraprecision separation of impurities from high value seed For capacity and all other specific information see the back page. The FAU fine cleaner offers itegrated inlet section with feed roll with variable drive, aspiration chamber with integrated screws and outlets for removed product on the right-hand side of the machine. The screen section consists of two sieveboats that have 2-2 screen flow (upper sieveboat with two screen layers and lower with one return plate and two screen layers). All of the screen segments have rubber ball cleaning and a final aspiration channel with an inspection window. A prime product outlet placed under the machine for the entire width of the machine along with common drive of feed roll, sieveboats, and screws allow for optimal performance. The machine is made of steel construction with sieveboats of laminated wood.

Options:

*Feed roll in various constructions (rubber covered, with gear variator 0-38 rpm, with fixed drive)

*Vibrator feeder (instead of feed roll)

*False air valve at top of machine or for adjustment from floor level

*Screen flow 2-1-2 or 2-3

*Adaptive aspiration control system (AAC)

*Intelligent screen management system (ISM)

*Fan with motor



CONTINUOUS SEED TREATOR

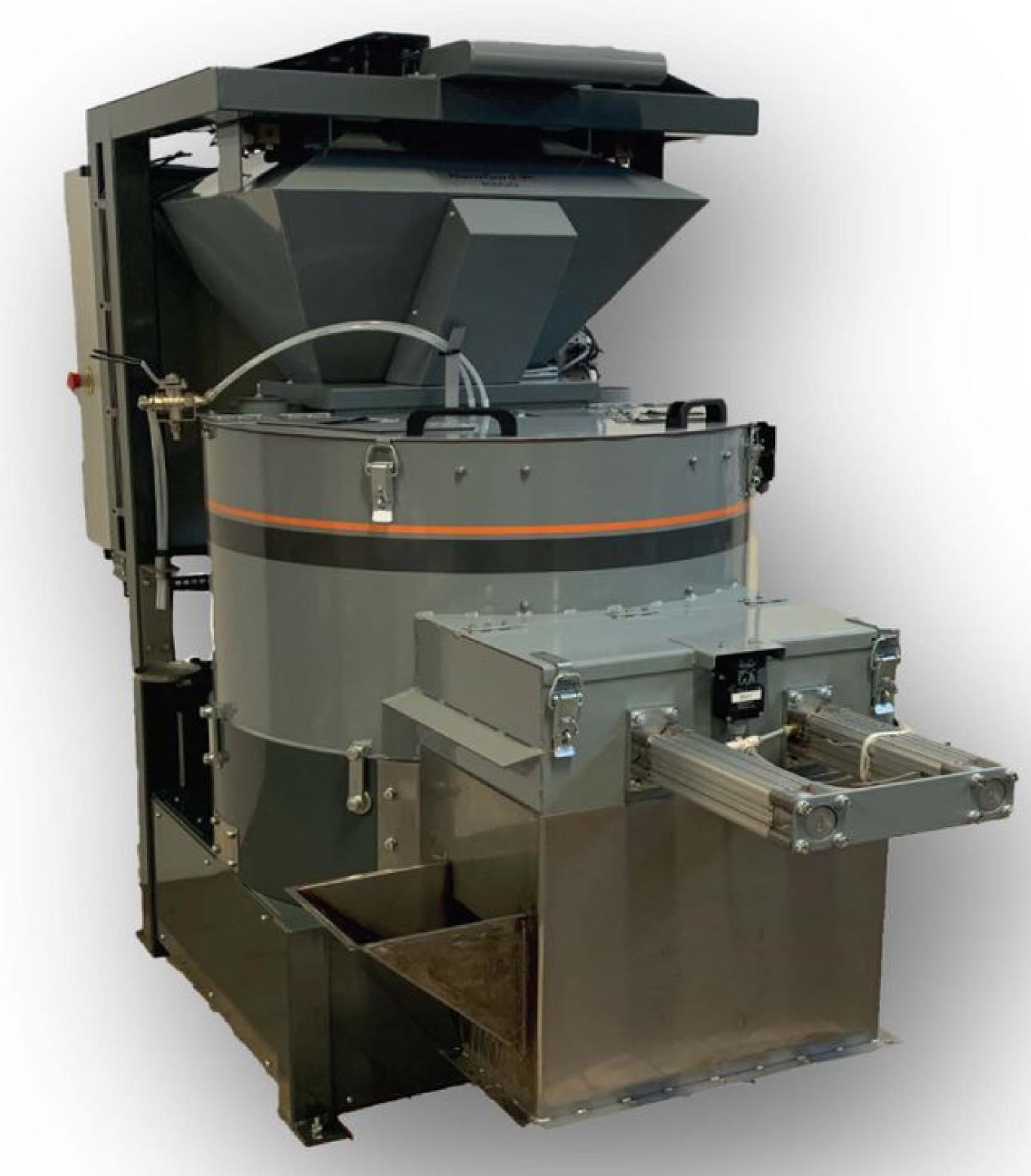
STANDARD & UNLIMITED LINE

The NoroGard R1000 stands for an easily operated batch seed treater, designed for complex treatments with a coating capacity of 30 tons/hour. The seed treater comes with a range of customization options to make sure it fits your pelletizing and coating needs. The R1000 provides seed treatment within a closed system with all vital parts easily accessible for cleaning and service, making it the obvious choice for quality treatment of each seed for good economy. Designed for complex treatments to meet high demands regarding application quality, reliability, operator safety and economy. Equipped to meet your needs for dressing, incrustation, coating and pelleting of seeds with diameter minimum 2 mm. Easy operated and controlled with an automatic PLC system.

BATCH SEED TREATER LINE R STANDARD, UNLIMITED MODELS, LAB OPTIONS

It has the great difference, compared to other curing methods, the possibility of applying products in stages, creating coating layers. The rotational movements of the grains caused by the drum offers excellent coating and perfect dosage in each of the grains. batch curators can perform various types of curing, from the simplest film coating where it adds a small increase in product, to pelleting, where the volume of the grains increases with the increase of liquids and powders, seeking a homogenization of seeds to the perfect planting. The pelleting process cannot be replicated on other non-batch equipment, such as continuous flow equipment. Norogard produces batch curators for small productions, ideal for laboratory use, up to 60 ton / h with its double drum equipment. All curators are easy to use and in its Unlimited version it does not even require calibration. All that is necessary is to indicate the volume of liquids and powders and start the work. As a differential of the brand, we are the only ones that use membrane pumps and not peristaltic. We manufacture and patent our pumps with the exclusive ability to reverse the flow, returning the liquids to the cylinders (containers). The great advantage of our pumps is extremely low maintenance and with minimal risk of leakage, instead of what happens when the tube breaks, a very common problem in peristaltic pumps.









Small-Scale Air Screen Cleaner

The LA-LSU small-scale air/screen cleaner is a precision and fine cleaner for research stations, institutes etc. The LA-LSU can be used for batch and continuous flow separation and is very wellsuited for cleaning of a large variety of seed types. For more technical information see the back page. The LA-LSU air/screen cleaner offers the below features:

- ° Inlet with capacity shutter and vibrator feeder with start/stop and potentiometer.
- ° Aspiration system with pre-aspiration and final aspiration connected to an air recirculation system.
- ° Screen section consisting of two sieveboats with 2 screen layers in the uppeboat, 1 return screen layer, and 2 screen layers in the lower boat; with several screen diagram possibilities.
- ° All screen segments with rubber ball cleaning.
- ° Extended outlet trays and plastic sleeves for transport of product to floor level
- ° Inspection windows.
- ° Variable drive of sieveboat with frequency converter. The machine is of steel construction with sieveboats of laminated wood.

Small- Scale Brushing Machine

The LA-H small-scale brushing machine is designed for batch and continuous processing of small volumes of seeds or grain prior to cleaning and grading processes. The LA-H brushing machine is mainly used for separation of grass seeds sticking together as well as polishing, de-hulling or peeling of different seed and grain products. For more technical information see the back page. The LA-H brushing machine offers the below features:

- ° Feeding tray with open/close shutter.
- ° One-section exchangeable standard mantle.
- ° Rotating shaft with two internally adjustable brushes or steel beaters.
- ° Manually adjustable brushing degree.
- ° Collecting drawers for prime product and removed product.
- Oust suction unit for connection to aspiration spout on top of the machine.
- ° Inspection window.
- ° Start/stop switch.



Processing for a more productive planet.