



LEWIS M. CARTER MANUFACTURING COMPANY

FOURTH GENERATION FAMILY BUSINESS WITH OVER 70 YEARS EXPERIENCE IN DESIGNING AND BUILDING PROCESSING EQUIPMENT.

WE AT LMC TAKE PRIDE IN OUR ABILITIES, OUR INNOVATIONS, OUR PEOPLE, AND OUR CUSTOMERS. LMC IS A QUALITY DRIVEN COMPANY WITH EMPHASIS ON PERFORMANCE, RELIABILITY AND CUSTOMER SATISFACTION.

- ASPIRATORS BEAN POLISHERS CLEANERS CONVEYORS DESTONERS
- ELEVATORS GRAVITY SEPARATORS HARD SHELL CRACKERS PEANUT BLANCHERS
- PEANUT SHELLERS PREHULLERS SHEAR ROLLS SIZING SHAKERS



LMC ADVENT
MADE IN THE USA



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EXPANSION CHAMBER

The liftings go to an expansion chamber to allow the reject product to drop out of the air stream. The liftings are conveniently discharged for inspection and, if needed, adjustment to the air stream can be made.

ASPIRATOR

The ADVENT utilizes the aspirator before the screening process to attain unmatched screening accuracy. This aspirator has proven to be the most efficient aspirator available and is used in many different processing industries. It is designed to create a streamlined flow vacuum that is drawn through the product. As the air flow is evenly distributed, the separation is more easily controlled and more accurate. An absence of a controlled flow will result in leaving light material in the good product or, if operated aggressively, heavy, good product in the liftings. As the clean product is discharged from the aspirator, it is gently lowered to the top deck of the ADVENT to begin the sizing process.

DECKS

To keep the screening section from becoming an expensive conveyor, the product must be properly distributed to the screens. If the product depth is deep, the product cannot find the screen to separate. In most cases, the siftings are generally lighter than the good product. A deep product flow compounds the sifting process, as the lighter siftings will migrate to the top of the flow as it travels down the vibrating deck.

To gain capacity and to overcome this piggy-back ride of the siftings, the LMC ADVENT is much wider than the conventional cleaner. ADVENTS are manufactured in widths of 4, 5, 6 and 7 feet to provide this required spread for the desired capacity. Sizing technology dictates width for capacity and length for precision. That is why each machine is designed with decks up to 7 feet wide and 16 feet long. If extra precision is required for a difficult separation, the decks can be designed with more length to attain the proper separation.

VARIABLE SPEED ROLL FEEDER

The product is fed using a variable speed roll feeder controlling the flow to the intake aspirator. The roll feeder enables the operator to easily and accurately adjust the flow to fit each individual situation.

BALL TRAY

Screen blockage is prevented by using 2" rubber balls. Over 40 years ago, LMC tried the woven type ball racks like those used by others. LMC found the relatively flat surface of woven ball racks did not give the proper aggressive, random action to the cleaning balls, so LMC developed a special system using round rods to impart the required action to the cleaning balls.

SCREENING

While the screen configuration can be designed to any particular need, the first screening is normally a sifting process to remove the smallest reject particles. After the initial sifting the product rides to the scalping area of the top deck. A draper curtain is used over the scalping screens to prevent the sticks, pods, or any oversized particles from standing on end and passing through with the good product. After leaving the scalping screens, the product is gently discharged to the lower deck. This deck will precisely grade the product to any particular count and can be equipped with multiple discharges to satisfy production specifications. All screens are mounted on tubular steel frames 24" wide and are easily handled.

LMC ADVENT Precision Cleaner

Designed to food quality construction standards using air and sizing to process products. The precision cleaning is combined into one continuous flow that gives the required separations with minimum dockage.

Industrial caliber design that will give years of around the clock service with minimum attention.

Fully counterbalanced and utilizes all-metal construction. The counterbalanced feature eliminates the need for wood construction to absorb unnecessary vibrations.

Finishes and contact surfaces meet the rigid requirements for proper sanitation. Clean out is particularly important for today's processors who are continuously changing between varieties and seed types.

Self cleaning and the screens can be changed in less than 20 minutes.

Open construction allows the cleaning balls, screens and product flow to be seen and monitored.