

ROTARY TABLE FEEDER

Lancaster Products Rotary Table Feeders are very useful in converting an *intermittent batch process into a continuous material feeding process*, increasing production rates while maintaining product accuracy, consistency and higher yield outputs. Variable flow rates can provide even flow of material from the table feeder to your downstream processing equipment.

THE LANCASTER TABLE FEEDER ALSO EXCELS AT MOVING STICKY OR HARD TO FEED MATERIALS.



KEY FEATURES



Variable flow rates



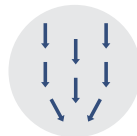
Use with difficult flowing materials



Gentle handling of green or weak materials



Prevents material bridging



Bin discharging applications



Converts batch processes into continuous process



Custom table diameters and storage volumes available

VARIABLE FLOW RATES

The flow rate is adjusted by changes in the angle of the discharge plate and table rotation speed – turning an intermittent process into a continuous flow process.

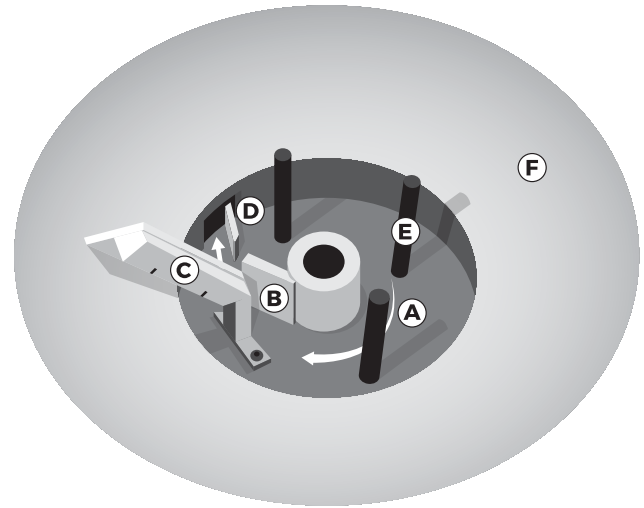
The amount of material leaving the table feeder can be controlled by changing the angle of the discharge plow either manually or automatically. The feed rate can also be controlled by using a variable speed table drive motor to adjust the speed of the bottom rotating table.

HOW IT WORKS:

The Lancaster Rotary Table Feeder uses a large flat rotating table to continually bring material from the cone to the discharge plow. The table has vertical pins attached inside the cone area.

There is also a cone scraper blade attached to the table. As the table turns, the blade and pins agitate the material and keep it evenly flowing to the discharge plow. An adjustable seal band rides on the outer surface of the table to prevent material from exiting the table feeder outside the discharge area. The discharge plow is used to bring the material to a fixed point as it leaves the table.

The rotating pins and the inner rotating plow provide a constant feed of even the most difficult materials.



- A** - Direction of Rotating table
- B** - Stationary plow to clean inner area of table
- C** - Rotating scraper blade
- D** - Adjustable plow directing material flow out of table feeder
- E** - Vertical pins to agitate material for even discharge
- F** - Transition cone

BIN DISCHARGING APPLICATIONS

The Lancaster Table Feeder attaches directly to the bin walls forming the bottom of the bin. This allows some of the most difficult flowing materials to be evenly fed from the bin. The cone and cylinder over the table are then used as a surge hopper to temporarily store the material batch while the table feeder continuously discharges the material. The entire assembly is known as the live-bottom bin.

SPECIFICATIONS

| | TABLE DIAMETER | STORAGE VOLUME | OPTIONS |
|------------------------|--|---|--|
| Standard sizes include | Lancaster Products Rotary Table Feeder are available in standard and custom sizes. | Storage volume is dependent on storage needs and flow rate (lbs/hour or tons/hour). | Stainless or Carbon steel |
| | 30-inch diameter | The table feeder can also be designed with multiple discharge plows to feed multiple production lines simultaneously. | Dual Discharge |
| | 42-inch diameter | | Manual or power discharge gate opening |
| | 60-inch diameter | | Load cells available for loss of weight controls |