schenckprocess

# Biodegradable Polymer Processing Solutions

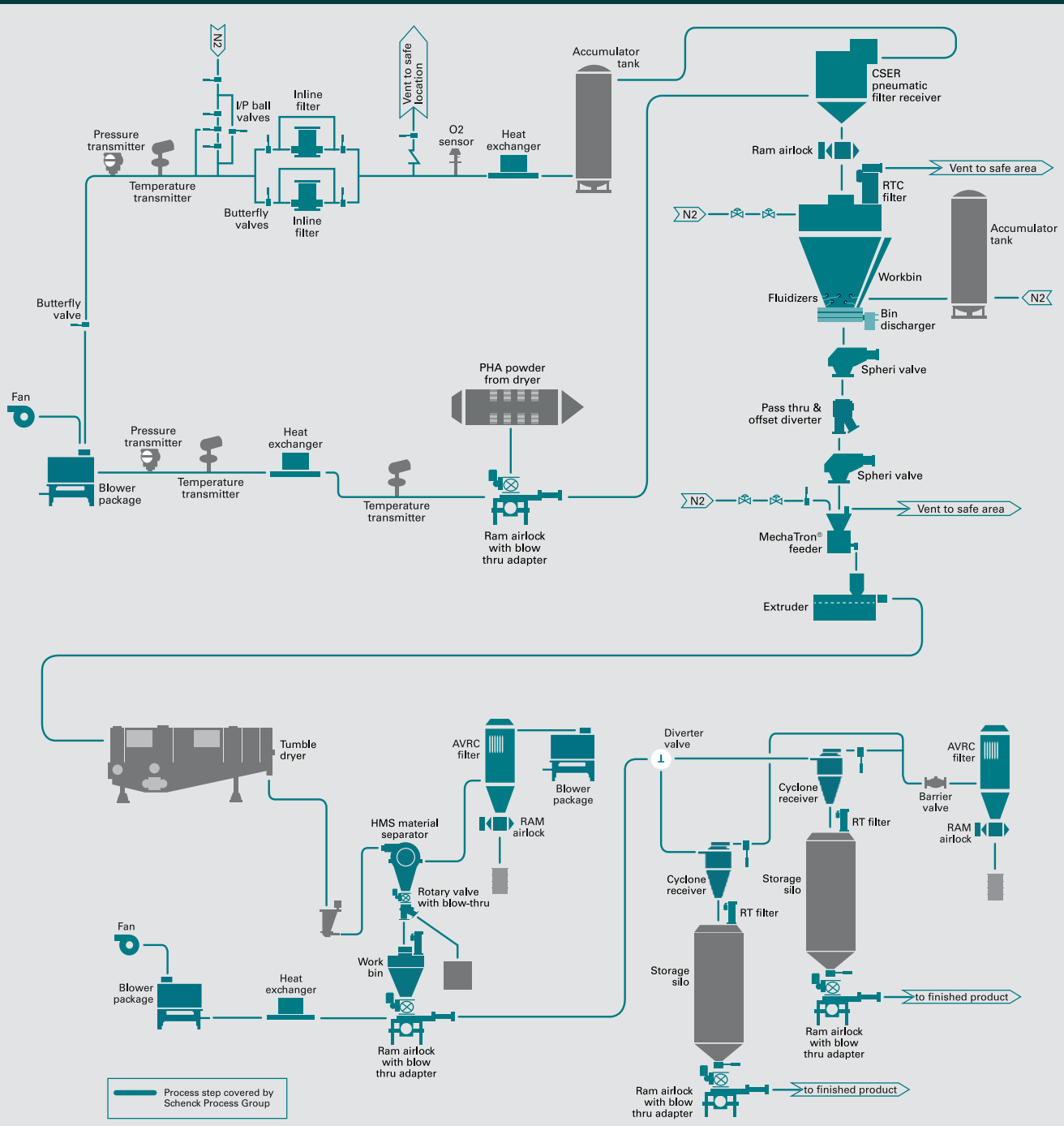
- Extrusion
- Feeding
- Pneumatic Conveying
- Dust Collection
- Bulk Bag Unloading

**Systems for the Bio Polymers Industry**

Schenck Process has a long history of servicing and supporting companies in plastics and Bio Polymers industries. Bio Polymers has quickly grown into a huge initiative for reducing non-biodegradable plastic waste going to the landfill and lowering the carbon footprint from production of traditional petroleum-based plastics.

The Schenck Process solution begins after PHA/PLA/Starch base materials are in powder form. From that point, systems from Schenck Process can take the base raw powder material from the discharge of a dryer or other source, pneumatically convey to loss-in-weight feed systems at the extrusion process, and beyond.

With a full line of pneumatic transfer technologies Schenck Process can transfer the PHA/PLA/Starch and other major or minor materials to a Schenck Process Group Baker Perkins extruder or to an extruder of your choosing. Utilizing the MechaTron® line of gravimetric loss-in-weight feeders, these models offer various options to ensure consistent metering of difficult materials to an extruder. Once pelletizing is complete Schenck Process can pneumatically transfer the pellets to storage, packaging or bulk loadout stations. A full line of dust collection equipment is available for keeping your plant safe from harmful airborne materials.



## MechaTron® Feeders

Volumetric and gravimetric feeding

- Highly accurate systems reduce product loss
- Complete disassembly from the non-process side speeds cleaning and maintenance
- Feed rates up to 1,100 ft³ per hour

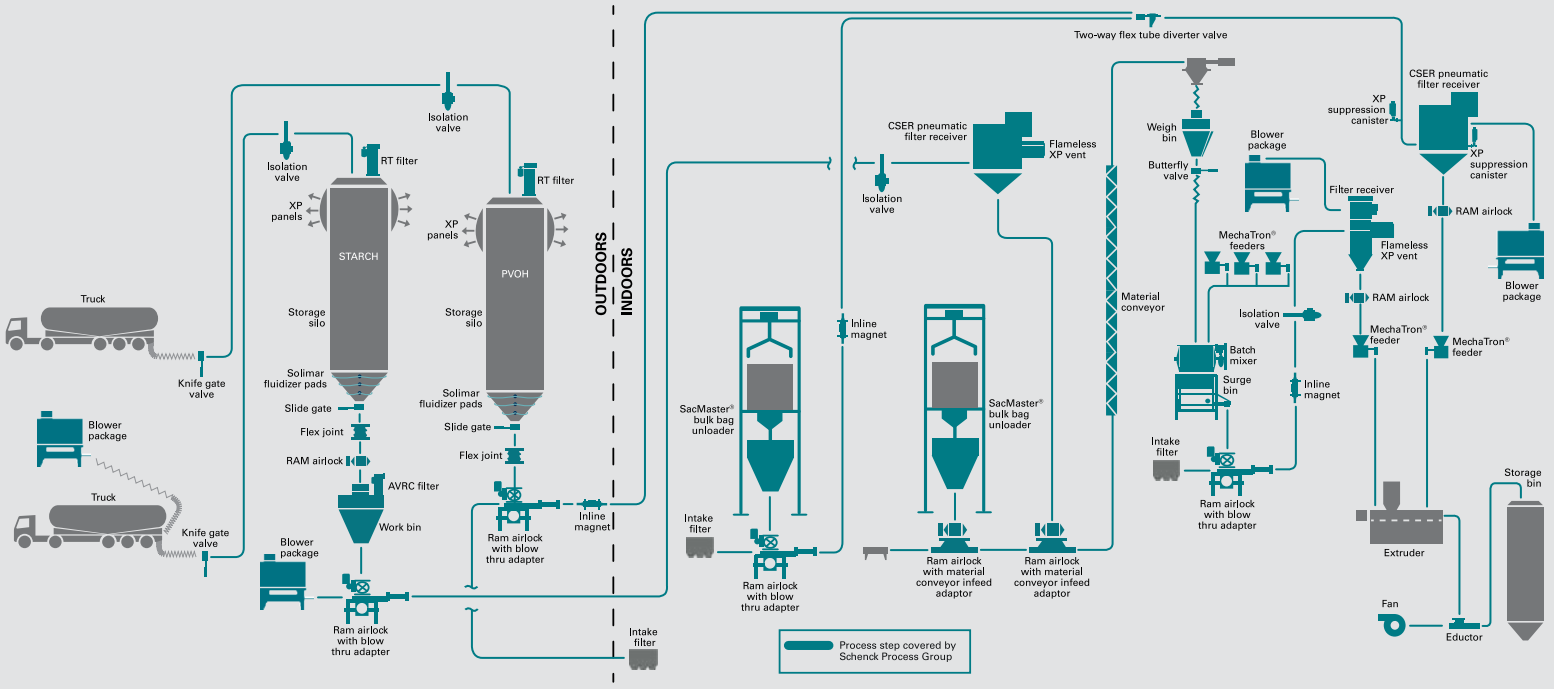
## Cyclone Collectors

- Capable of handling heavy dust loads
- Designed to separate product from an air stream
- Easy to wash down and sanitize reducing the risk of cross-contamination
- No moving parts or maintenance
- Serves as a pre-separator for materials that are not suited to go directly into a baghouse

## AVR/AVRC filters (air vent round)

Circled bodied pulse jet filter

- Bottom removal filters capable of handling heavy dust loads
- Designed for vacuum, pressure and combination vacuum/pressure bulk pneumatic receiving and dust collection systems
- Handles low air volumes and higher pressure applications




## MPX Extruder

- High torque-capacity and uniform barrel heating ensures consistency
- Quick start-up, reliable operation and rapid changeover keep operating costs low
- All wear parts are long-lasting and easily replaced
- Easy to change screws simplify cleaning and maintenance
- Range of twin screw extruders providing outputs from 220 lbs. to 6,400 lbs.

## Pneumatic Conveying

Dilute or dense phase

- Single or multiple pickup and/or discharge locations
- Convey to material storage in silos or work bins
- Systems for both abrasive and non-abrasive materials
- Cost effective solutions for conveying materials over long distances
- Airlocks and valves available for pneumatic conveying systems integration

## SacMaster® Bulk Bag Discharge System

Bulk bag frame for full bag emptying

- Two paddle agitation to eliminate material bridging and promote full bag emptying
- Two agitation and two pivoting paddles for full bag support
- Modular design for easy system customization and compatibility

Schenck Process bulk material handling systems are an integral piece for manufacturers that produce eco-friendly products with biopolymers.

# Helping create products that protect the planet

schenckprocess

Schenck Process
7901 NW 107th Terrace
Kansas City, MO 64153
816-891-9300
americas@schenckprocess.com
www.schenckprocess.com

we make processes work