

## SMART DISTRIBUTION



### SMART Distribution

SMART: Sequential Material Allocation and Redistribution Tower reduces required piping and ensures that the right material is connected to the right destination. This revolutionary development is geared to complex multi-layer co-extrusion systems and centralized large-scale plant material handling systems.

SMART allows a single common material line to be used in applications with multiple vacuum pumps. A traditional 10-silo system being serviced by 3 vacuum pumps would require 30 common material lines. With the SMART Connection system, the requirement is 10 material lines. A SMART Tower will also verify that the material connections match the recipe, reducing the possibility of human error. Port sizes can be matched to incoming tube size.



### Port Expanders

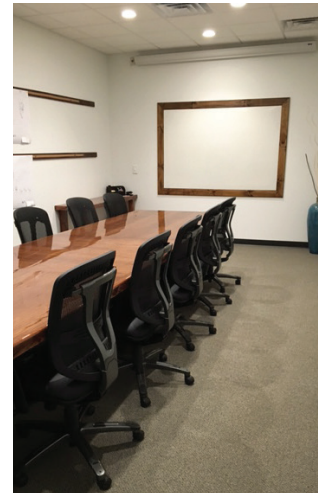
allow one source material to be shared with up to four destinations. They are available in Stainless Steel or Aluminum, and increase the flexibility of the SMART System.



## NEW PRODUCT SPOTLIGHT:

### Premium Hose

ABS Premium Flex Hose is polyurethane-based, allowing for greater flexibility and lower weight than PVC-based hoses. Static elimination is built into the molecular structure of the hose so that it will never wear off. In field-testing, Premium Hose lasts at least four times longer and is more resistant to abrasive materials than PVC hose. High Temp versions available for materials of up to 350° F.



ABS Manufacturing Headquarters  
Wallace, MI

## ABOUT ABS

Advanced Blending Solutions is a world class designer and supplier of material handling, blending, and controls for the plastics industry. Full-service lab and onsite manufacturing allow for high quality products and constant improvement. With representatives throughout the country and world, ABS is a fast-growing company committed to providing the best products and services to meet their customers' unique needs.



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# ADVANCED BLENDING SOLUTIONS

## COMPANY OVERVIEW



# BLENDING

# MATERIAL CONVEY

# AUXILIARY EQUIPMENT

## Simplicity Blenders

ABS Blenders are easy to install, configure, operate, and maintain. Blenders use maintenance-free vibratory feeders, which provide simultaneous metering of all components, eliminating the need for mechanical mixing and consistently producing the desired blend.

Loss-in-weight technology ensures a high level of accuracy. Blend accuracies are typically better than 0.1% of set %. Actual accuracies are material dependent and can be tested at the state-of-the-art ABS lab.

The cordless feeder design makes it easy to change out or clean feeders, and ensures that the correct feeder is feeding the correct material.

## Features

- Easy to install, configure, and maintain
- Simultaneous metering of components
- Consistent blend with no mechanical mixing
- Highly accurate PC/PLC controls
- Standard models available for 2 to 10 components, with customization available



## NEW PRODUCT SPOTLIGHT:

### SL Blender

A gravimetric, continuous loss-in-weight blender, the Simplicity Low-Throughput (SL) is perfect for mounting directly to the extruder, or for use in lab line applications. Standard models come with up to ten components for up to 1000pph. Typical individual component throughput range is 0.4-250pph for a 35pcf standard pellet. Actual rates will vary based on material properties and can be tested in the state-of-the-art ABS lab upon request.

The SL Blender comes with a Windows Surface Pro-Tablet control system and docking station charger. Multiple units can be combined for a common point of interface, allowing for pump sharing, Smart Distribution integration, recipe function, thickness control, etc.

Standard mounting frame and optional sequence valve makes it easy to add vacuum receivers to the system as needed.



## Variable Frequency Drives

are a unique solution that controls the speed of a vacuum pump based on the inlet pressure at the pump, allowing material to be conveyed at a programmed velocity. By controlling the velocity of material flow through a material transport system, angel hair can be reduced and often eliminated altogether. The Velocity Sequence Control Panel is a low cost option to upgrade obsolete Sequence Control Panels. Due to the substantial energy savings realized by these Drives, the ROI is calculated in months.



## Vacuum Receivers

were developed for optimal productivity and up-time. Flapper-style vacuum receivers come with an industrial hinge for consistent swing, and an inductive prox for simple set-up and operation. Vacuum Receivers can also be purchased with long-lasting ABS Knifegates on the outlet, allowing the vessel to serve as a surge hopper and eliminating potential leaks due to pellet wedging—a common occurrence in flapper-style Vacuum Receivers.

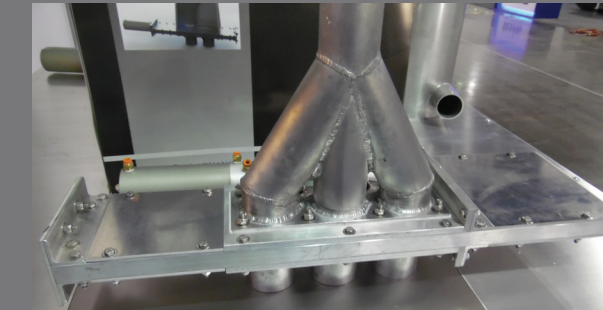


## Pump Packages

are designed for the conveying of bulk solids. High efficiency motors, high vacuum relief valves, premium silencers, and a secondary paper canister filter all come standard in pump packages. The optional Variable Frequency Drive can be purchased to control the pick-up velocity of the material. This option reduces angel hair and material degradation, and improves system efficiency. An optional Sound Enclosure dampens sound to below 75dB at 3 feet.

## Knifegates and Diverters

provide a high-quality sealed valve. With an aluminum body and Stainless Steel Blade, knifegate or diverter is actuated by a pneumatic cylinder. Flex or Wye diverters are available for two or three outlets.



## Weigh Hoppers

are used for monitoring material consumption rate. This reliable, precise measure can be used by a control system to adjust the speed of the take-away device (extruder) to maintain a constant flow.



## Angel Hair Traps

can remove angel hair stringers before they wrap around augers, cause material to bridge hoppers, and contaminate a system. Traps can also be used as a diagnostic tool to pinpoint where angel hair is being created.



## Air Filters

are designed to optimize airflow through the unit and minimize restrictions. Units have a precise measure of delta P, which is used to alarm and control cleaning cycles (only dirty bags are cleaned). Units feature a front door for easy bag access, and bags are connected with quick-release clamps for easy changing.



## Storage Solutions

range from easy-to-move mobile storage bins to full-size welded, bolted, or mixing silos. Box tilts with barcoding ensure that the correct material is headed to each destination.



## Control Solutions

feature PC/PLC-based controls geared toward blending and bulk solids transfer applications. The SC Series control panels come with a variety of controller options allowing the system to be easily scaled to the application. Controllers offered include both Allen Bradley and Beckhoff Automation. Trending and Reporting Software allows large volumes of data to be easily stored and retrieved.



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