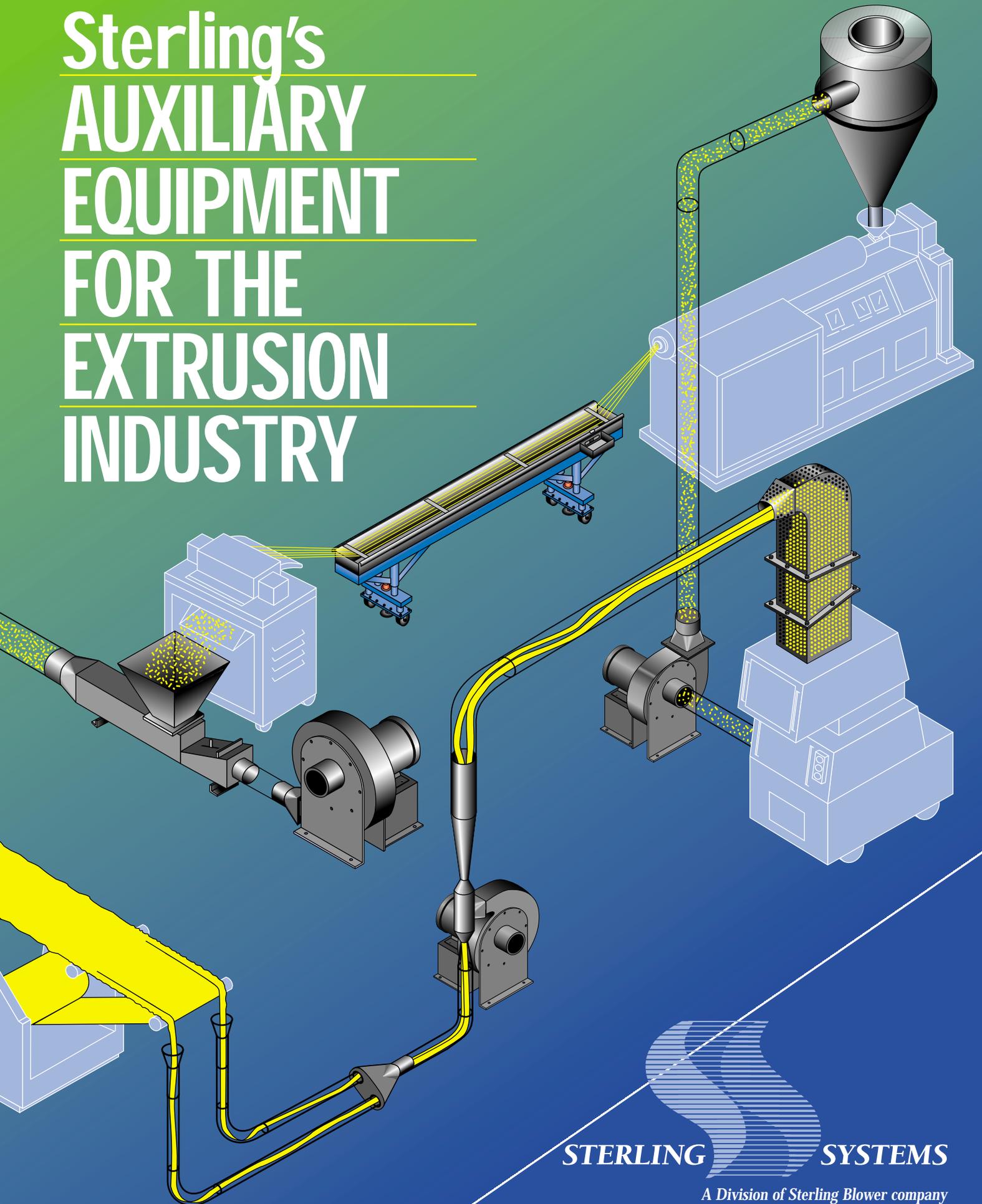


# Sterling's AUXILIARY EQUIPMENT FOR THE EXTRUSION INDUSTRY



**STERLING**  **SYSTEMS**

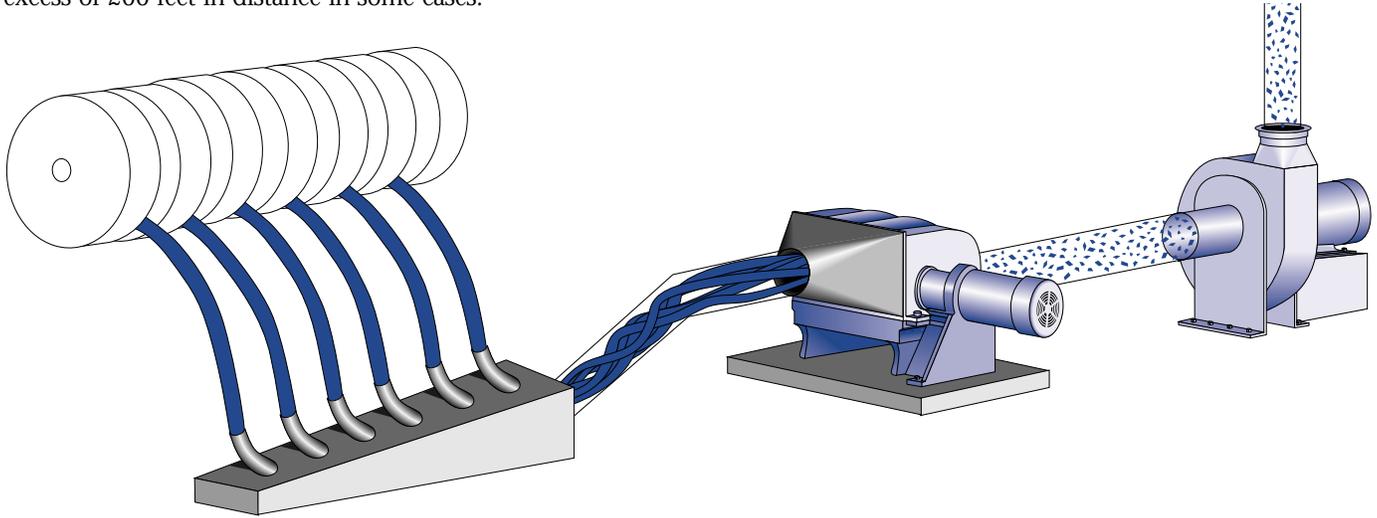
*A Division of Sterling Blower company*

# In-Line Cutters

Sterling's In-Line Cutter Blower systems are designed to collect continuous flow edge trim directly from your process line. The trim is pre-cut and conveyed to a granulator for size reduction or to a storage bin.

Available with single or multiple pickup lines, our In-Line Cutter Blower systems can handle trim up to 7" wide at speeds in excess of 2,000 feet per minute. Material can be conveyed in excess of 200 feet in distance in some cases.

- ▶ **Compact system**
- ▶ **Can pick up edge trim from many different locations**
- ▶ **Cutter is provided with safety interlock switch**
- ▶ **Cutter is available in two (2) sizes (consult factory for sizing)**
- ▶ **Cutters are equipped with (1) bed knife and (2) rotor knives**



# Cutter Blowers / Air Tables

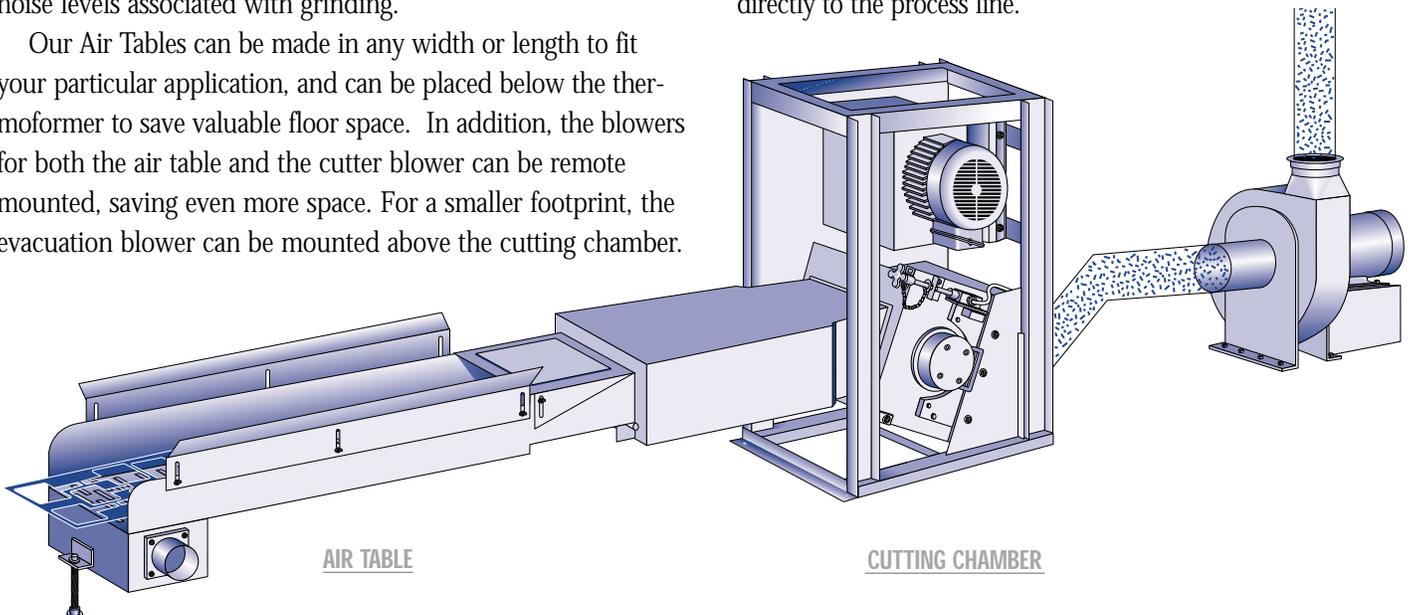
Sterling's Cutter Blower and Air Table systems are designed to collect thermoform skeletons and profiles, or edge trim that is too heavy and rigid for conventional trim-type cutters.

The system can be manufactured from most cutting chamber designs and is fitted with an integrated inlet silencer to reduce noise levels associated with grinding.

Our Air Tables can be made in any width or length to fit your particular application, and can be placed below the thermoformer to save valuable floor space. In addition, the blowers for both the air table and the cutter blower can be remote mounted, saving even more space. For a smaller footprint, the evacuation blower can be mounted above the cutting chamber.

Adjustment in the air flow of the table is made simple by adjusting the blast gate on the blower or by adjusting the baffles in the table.

Sterling's blowers and cyclones are an integral part of the system and can be used to convey the granulated product to storage or directly to the process line.



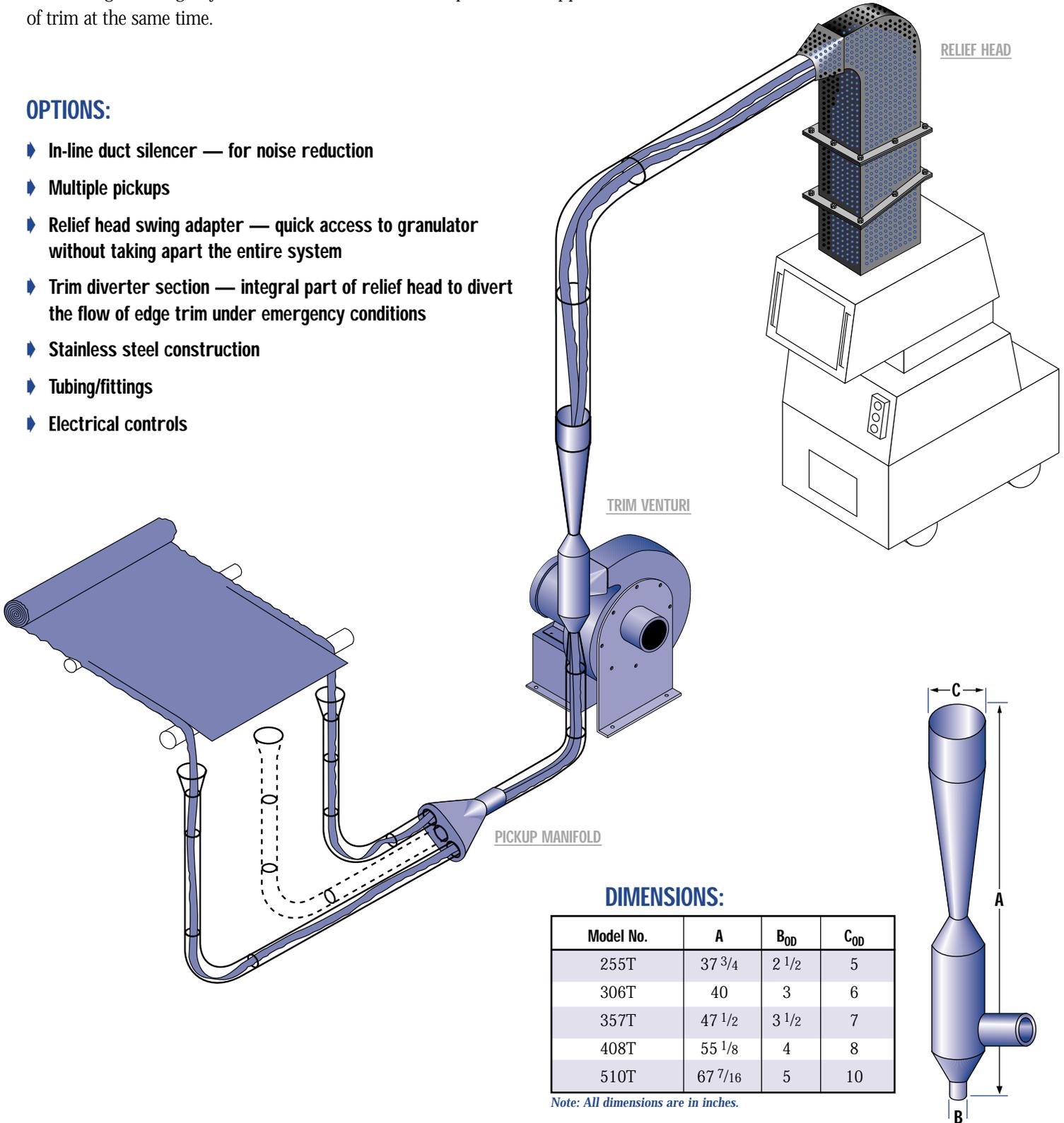
# Edge Trim Conveying Systems

Sterling's Edge Trim Conveying Systems for continuous flow edge trim are designed to collect trim from an extrusion or conversion line and convey that trim to a size-reduction station or to storage. A single system can collect one or several pieces of trim at the same time.

## OPTIONS:

- ▶ In-line duct silencer — for noise reduction
- ▶ Multiple pickups
- ▶ Relief head swing adapter — quick access to granulator without taking apart the entire system
- ▶ Trim diverter section — integral part of relief head to divert the flow of edge trim under emergency conditions
- ▶ Stainless steel construction
- ▶ Tubing/fittings
- ▶ Electrical controls

Sterling's Relief Head is a perforated elbow intended to dissipate the air before the trim enters the size reduction stage or storage. Systems are custom designed to fit the customer's application.

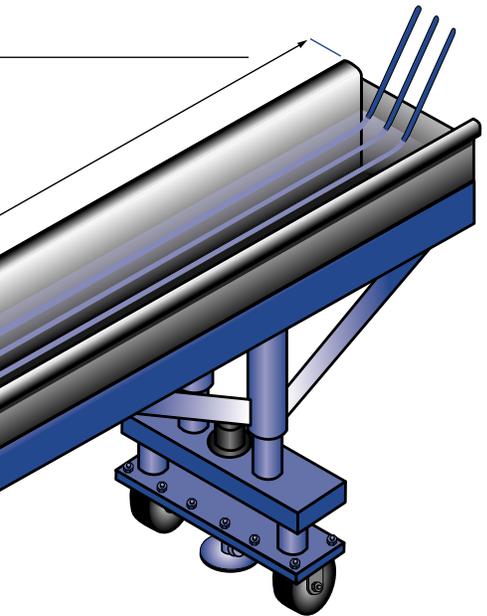
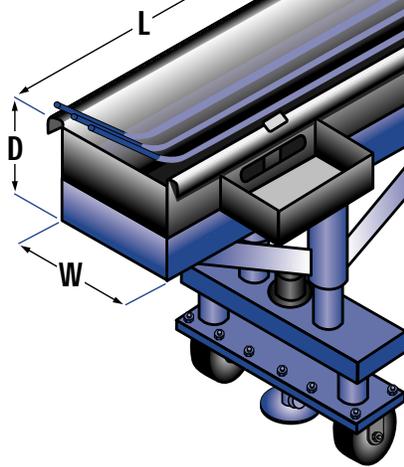


# Water Cooling Tanks

Sterling's Water Cooling Tanks are designed to meet the needs of your extrusion line. Made of 304 stainless steel, our tanks offer many standard features which help control the cooling process of extruded products as they exit the die head.

An overflow box with a removable filter is included to aid in controlling the level of water in the tank. The tank itself is mounted on a sturdy support frame and comes standard with a set of heavy duty support jacks for adjusting the height of the tank. Water fill and drain ports are provided to sufficiently maintain proper water supply and flow through the tank.

## DIMENSIONS:



## OPTIONS:

- ▶ **Guide bar assembly — plain and/or grooved guides to provide full adjustment in guiding strands through tank and keep them from intermingling or tangling**
- ▶ **Heat exchanger / Recirculation system — to provide a closed loop system for controlling water temperature**
- ▶ **Stainless steel support frame (carbon steel is standard)**
- ▶ **Polyurethane or steel casters**
- ▶ **Spray tanks — for profile, tubing, or pipe applications**

STANDARD SIZES			
Model	Width (in.)	Depth (in.)	Length (ft.)
WCT-0606-05	6	6	5
WCT-1008-10	10	8	10
WCT-1008-12	10	8	12
WCT-1008-20	10	8	20
WCT-1008-25	10	8	25
WCT-1210-10	12	10	10
WCT-1210-20	12	10	20
WCT-1210-25	12	10	25
WCT-1512-10	15	12	10
WCT-1512-20	15	12	20
WCT-1512-25	15	12	25
WCT-1512-30	15	12	30
WCT-2012-10	20	12	10
WCT-2012-20	20	12	20
WCT-2012-25	20	12	25
WCT-2012-30	20	12	30
WCT-2412-10	24	12	10
WCT-2412-20	24	12	20
WCT-2412-25	24	12	25
WCT-3012-10	30	12	10
WCT-3012-20	30	12	20
WCT-3012-25	30	12	25
WCT-3612-10	36	12	10
WCT-3612-20	36	12	20
WCT-3612-25	36	12	25
WCT-4012-10	40	12	10
WCT-4012-20	40	12	20
WCT-4012-25	40	12	25
WCT-4412-10	44	12	10
WCT-4412-20	44	12	20
WCT-4412-25	44	12	25
WCT-5012-10	50	12	10
WCT-5012-20	50	12	20
WCT-5012-25	50	12	25
WCT-5212-10	52	12	10
WCT-5212-20	52	12	20
WCT-5212-25	52	12	25

# Air Knives

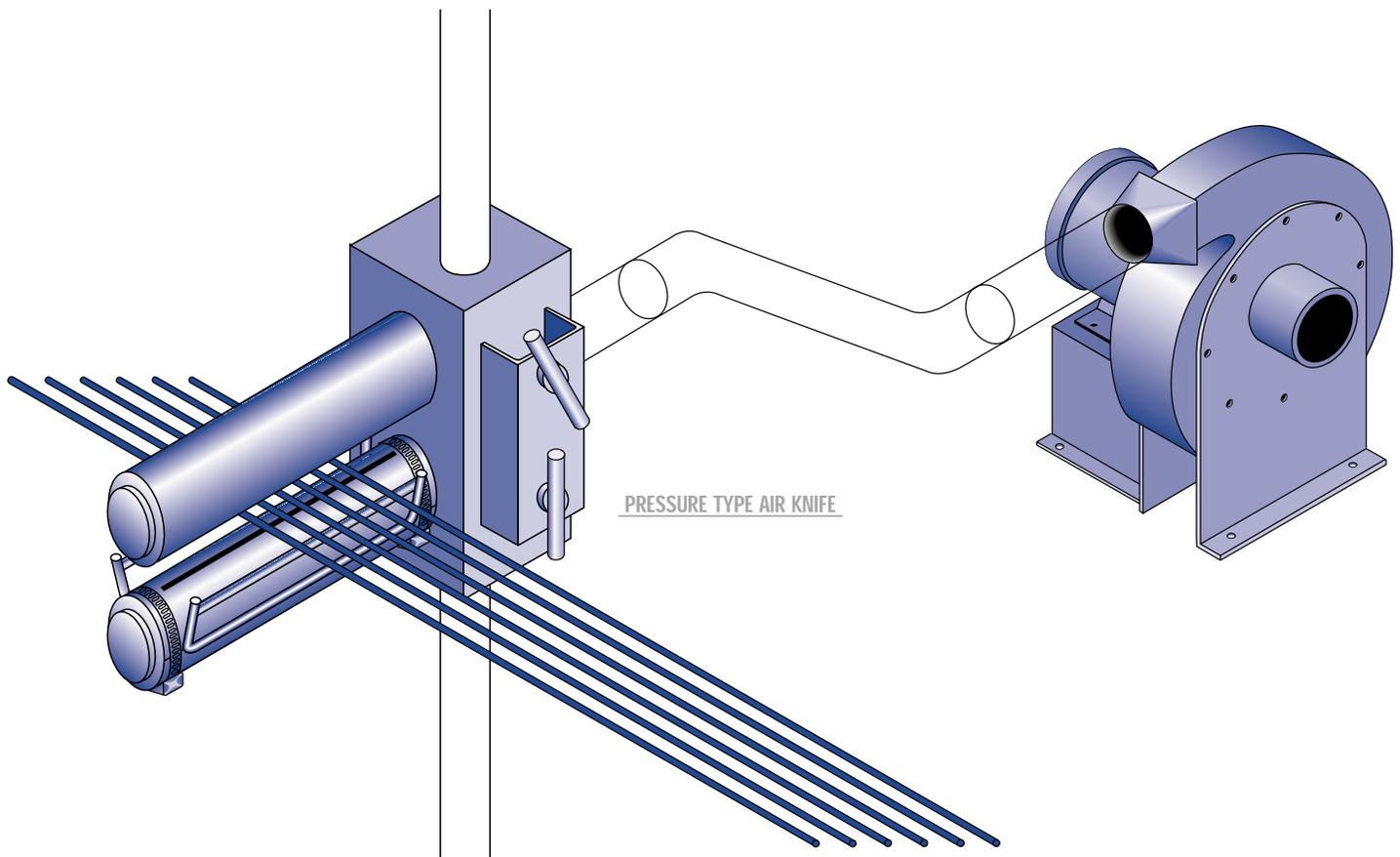
Recognizing the needs of the industry, Sterling's Air Knife assemblies are available in both pressure and vacuum air flow configurations. A complete assembly consists of the air knife, a pressure blower sized to the application, an adjustable support frame, and optional connecting tubing. Constructed of 304 stainless steel, the air knife can be either directly connected to the blower or the blower can be remotely situated, saving valuable floor space.

**Pressure Type Air Knives** can be supplied in both a single or dual configuration, depending on the application. When mounted in a remote location from the blower, the air knife is attached to a support frame which allows for adjustment in the height of the knife. They also come with a guide bar assembly to help direct the flow of the strands as they pass over the knife. The air slots are designed to provide a balanced air flow,

reduce the impact of air on the surface being dried, and allow for a more efficient use of horsepower. The slots come in a wide variety of lengths to fit your particular application.

**Vacuum (suction) Type Air Knives** are used in conjunction with our Water Strippers and help eliminate the water splashing associated with pressure type air knives. They feature an easily replaceable guide bar assembly and screen. This "safety screen" prevents the strands from entering the knife. The knife typically has a slot 1" wide and comes in various lengths, depending on your specific needs. The slots are designed to provide a balanced air flow in the system and reduce noise.

- ▶ **Both types are portable**
- ▶ **Can be built to customer specifications**



# Water Stripper

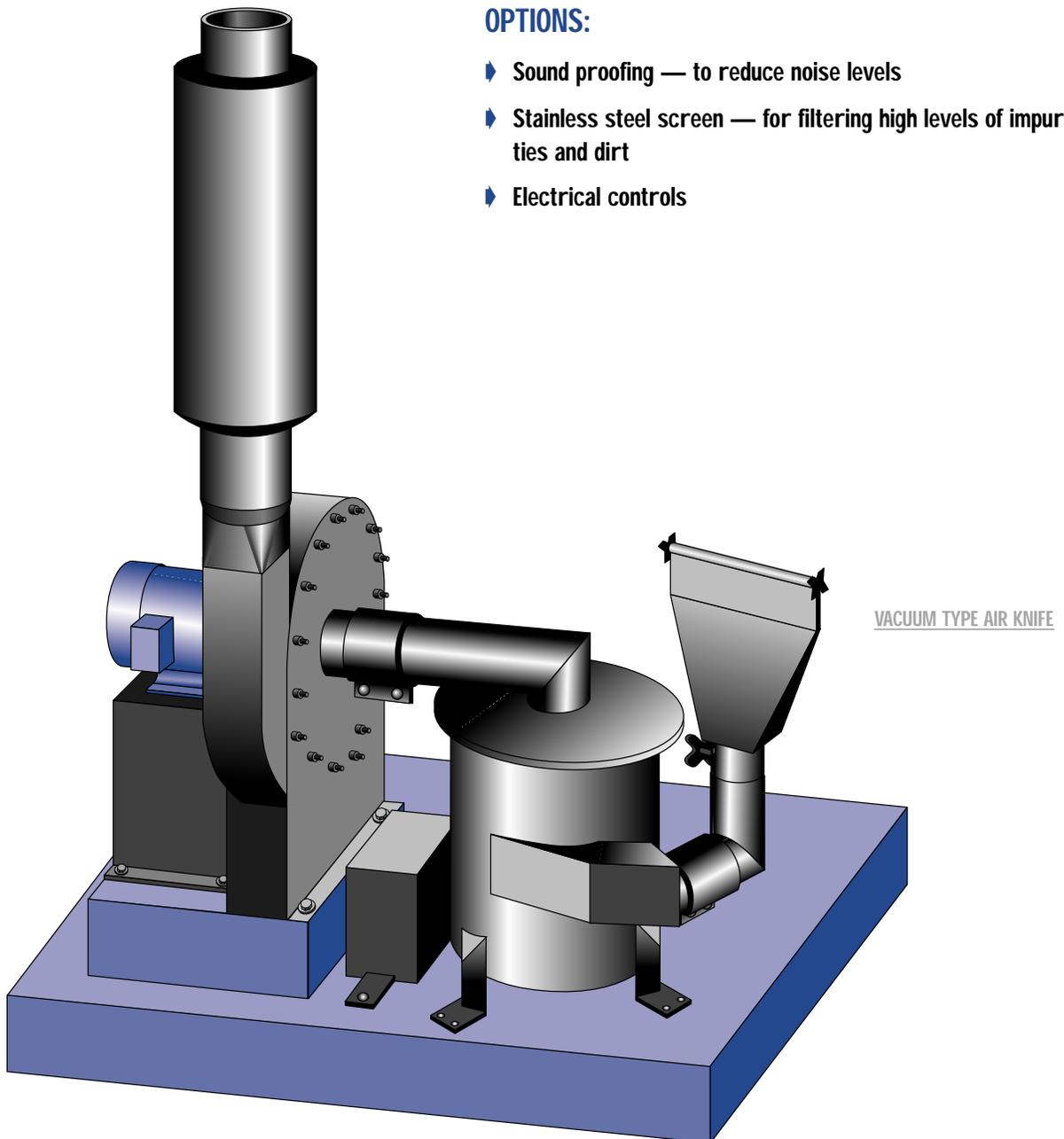
For drying strands, profiles, or a finished product on an extrusion line, Sterling's Water Stripper offers many advantages over the competition. Versatility and reliability come standard with our equipment. The air knife attachment over which the strands pass can be positioned in one of several locations around the tank assembly, allowing many different configurations to fit the customer's requirements. Adjustment in the height of the knife is easily achieved with the turn of a screw. The blower can be located in a remote location when floor space around the production line is scarce.

Low maintenance is a valuable and important feature of our Water Stripper. The unique agglomeration tank design removes water, impurities, and moisture before the stream reaches the blower, eliminating buildup in the housing of the blower. Since the water is totally contained in the tank and drain area, the maintenance and downtime usually associated with other strippers are avoided.

Because of its compact design, a small blower is used, thereby reducing noise levels and horsepower consumption. The end result is higher efficiency, quieter operation, and lower operating costs.

## OPTIONS:

- ▶ **Sound proofing** — to reduce noise levels
- ▶ **Stainless steel screen** — for filtering high levels of impurities and dirt
- ▶ **Electrical controls**

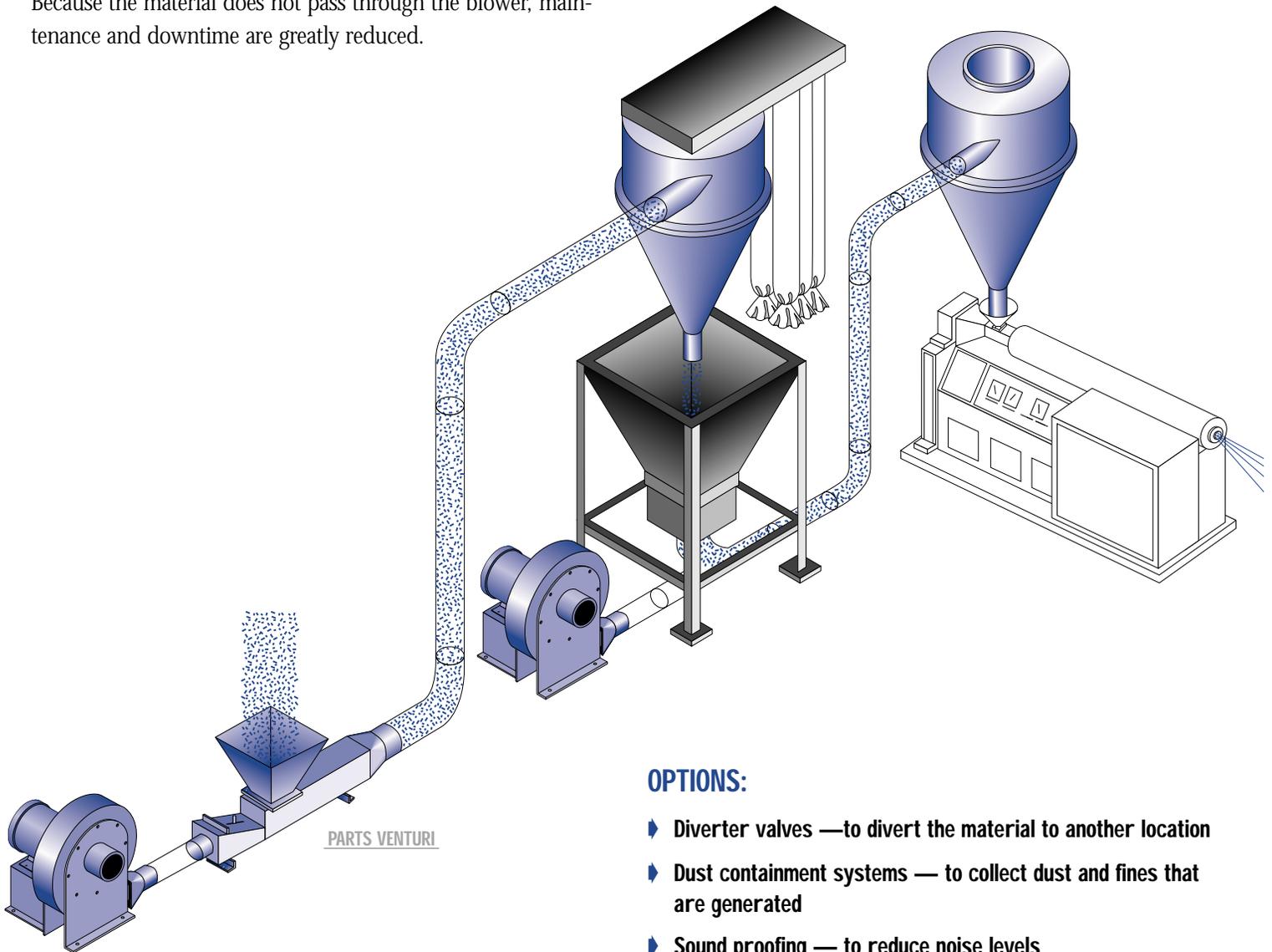


# Pellet Transfer Systems

With more than 90 years of experience, our dilute phase conveying systems offer flexibility and dependability that Sterling has become known for. Available in both pull-through or venturi (push) type, we can design and build the right system for your application.

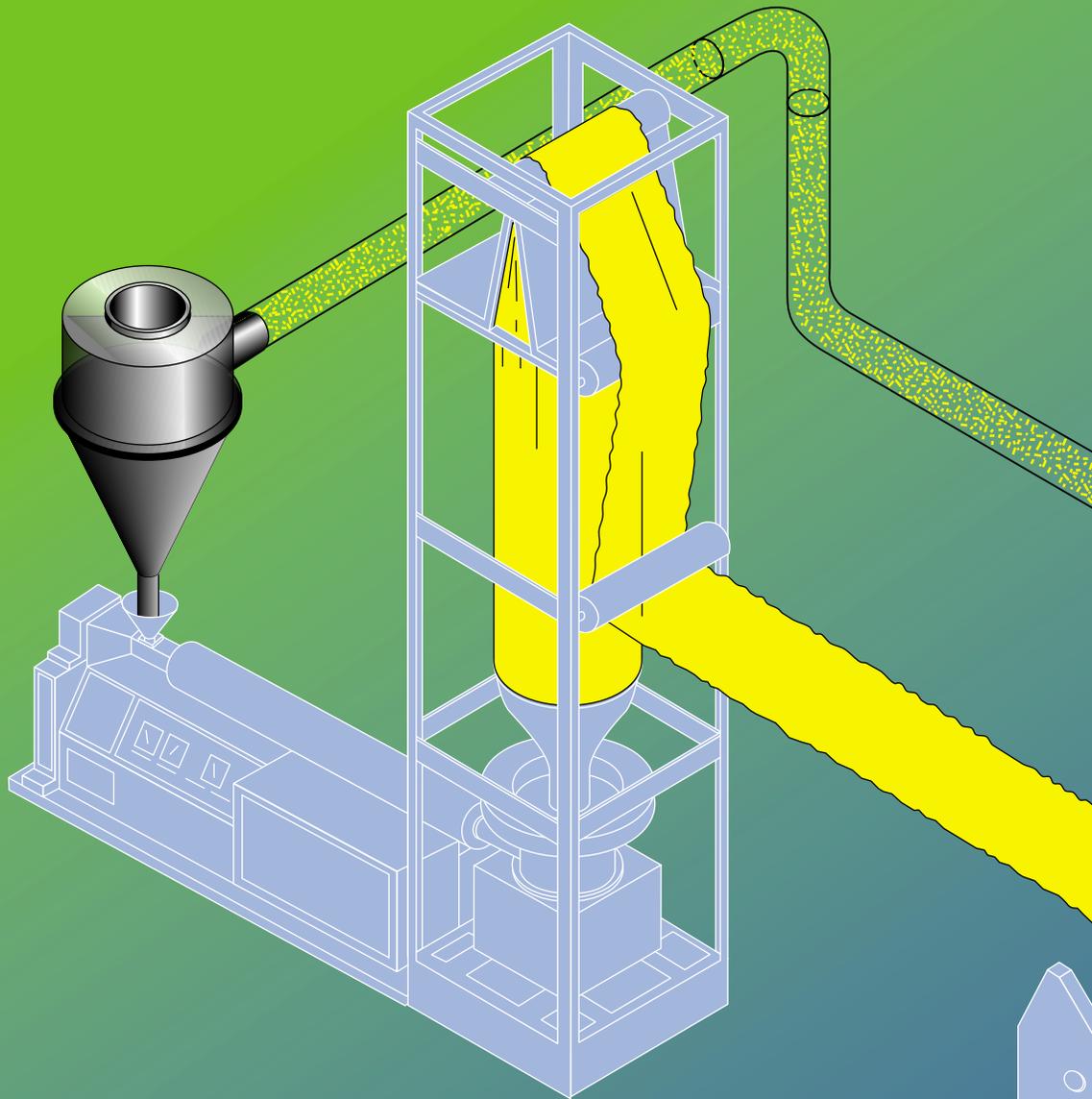
A pull-through system, using a rotary airlock and take-off cap on the cyclone, is ideal for brittle or abrasive material. Because the material does not pass through the blower, maintenance and downtime are greatly reduced.

Blowers can be supplied with gate valves to regulate line speeds, thereby minimizing wear in tubing. Systems are available for conveying rates in excess of 10,000 lbs/hr. Through the use of diverter valves, one system can pick up material from multiple locations and deliver to multiple locations.



## OPTIONS:

- ▶ Diverter valves — to divert the material to another location
- ▶ Dust containment systems — to collect dust and fines that are generated
- ▶ Sound proofing — to reduce noise levels
- ▶ Surface treating — to extend component life in abrasive applications
- ▶ Stainless steel construction
- ▶ Tubing/fittings
- ▶ Electrical controls



**STERLING SYSTEMS**

*A Division of The Sterling Blower Company*

135 Vista Centre Dr.  
Forest, VA 24551-3964  
434-316-5310 • FAX 434-316-5910  
[www.sterlingblower.com](http://www.sterlingblower.com)  
e-mail: [sterling@sterlingblower.com](mailto:sterling@sterlingblower.com)