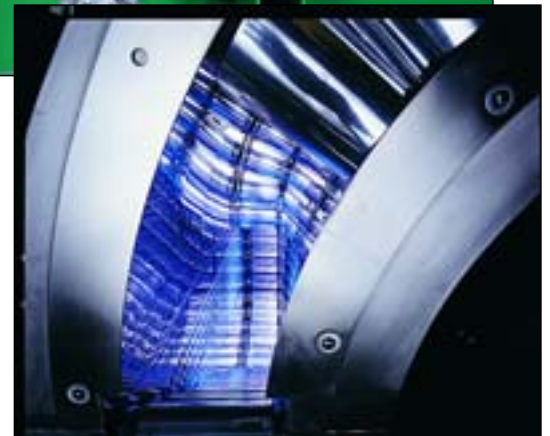


High Speed Horizontal Single Filing For Can Manufacturing Systems D3 Air Single Filer®



Features:

- Speeds exceeding 2200 cpm
- Complete compact modular design
- Auto damper system for air control
- Compatible for aluminum, steel and tinplate cans
- Easy adjustment for various can heights and diameters

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ACCURAPLY

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pneumatic
SCALE

ANGELUS®

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DESIGN  GROUP

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FleetwoodGoldcoWyard

High Speed Horizontal Single Filing For Can Manufacturing Systems

D3 Air Single Filer®

Fleetwood's Model D3 Air Single Filer is specifically designed for high speed single filing of aluminum and tinplate cans. The single filer converts a mass of vertical containers into a horizontal single file stream. Applications of this machinery are typical where there is a need to convey containers coming from an air mass conveyor into a high speed single file component such as a decorator. The D3 can manage a gap-less single file line at speeds exceeding 2200 cans per minute for untrimmed aluminum brite cans. The machinery can also be fine tuned with static pressure regulators to efficiently handle various specified speeds.

Principles of Operation

The containers move through the single filer by a combination of gravity and air conveying. The typical routing procedure begins with an approach to the single filer via air mass conveyor. The containers approach and enter the single filer through a waterfall or nose over inlet. The waterfall uses gravity to properly orient the containers into the D3. The inlet allows the containers to locate between the totally enclosed end guides so that they become oriented in a horizontal position when the single filing process begins. Containers can be conveyed to the single filer open end up or open end down.

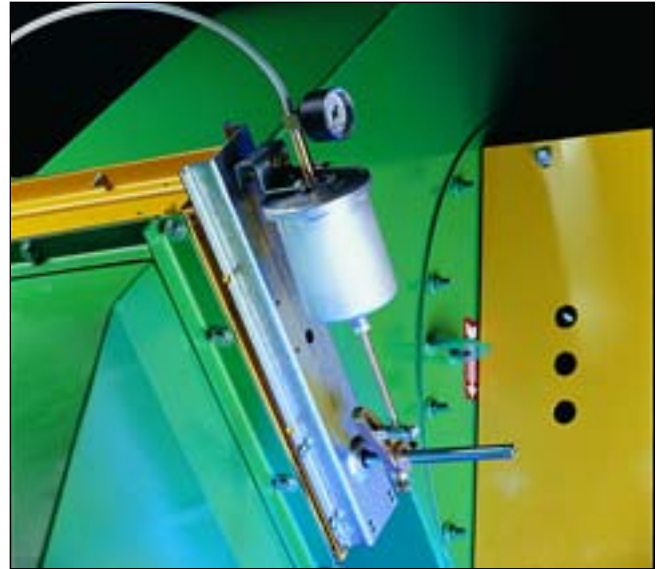


The containers are patterned to single file using a precision design of air jet arrangements once inside the body of the single filer. This patterning action is the result of various combined effects occurring simultaneously. It is the combination of the single filer sides being totally enclosed, the air entering through

the main air duct, and the air entering the blowback station produces higher than ambient static pressure in the accumulation and flow areas of the single filer. This pressure and the angle of the air jets manipulates the travel direction of the containers and creates the desired pattern.

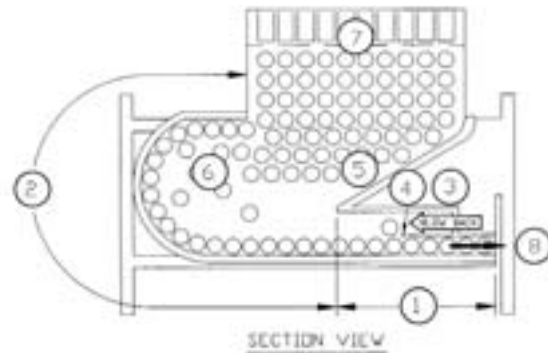
The containers exit the single filer into horizontal single file air conveyor where they are typically routed through an air elbow to the infeed of a high speed processing machine.

The Model D3 Air Single Filer implements a protection device called an auto damper control that will shut the air off during back-ups to prevent the idle containers in the machine from continuously circulating in the air stream.



A critical process of the single filing system is the primary blowback zone. It is positioned at the end of the D3 single filer just above the container discharge. The direction is opposite of the container discharge direction. The main function of the primary blowback is to 'blowback' the piggyback containers before they cause a jam at the discharge.

The de-jamming device is the final precaution to ensure a smooth single filing process. It consists of a motor driven shaft located at the single file point. The purpose of this wheel is to dislodge a jammed can automatically and force it through the discharge or into the blowback stream.



The end result is a highly effective and efficient single filing machine. This machine is a proven design that has been a leader in both speed and performance in the can manufacturing industry for almost a decade.

We offer a complete line of can manufacturing equipment. We also provide service and solutions to meet your custom application. Please contact the experienced teams at FleetwoodGoldcoWyard to discuss your special application(s).

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