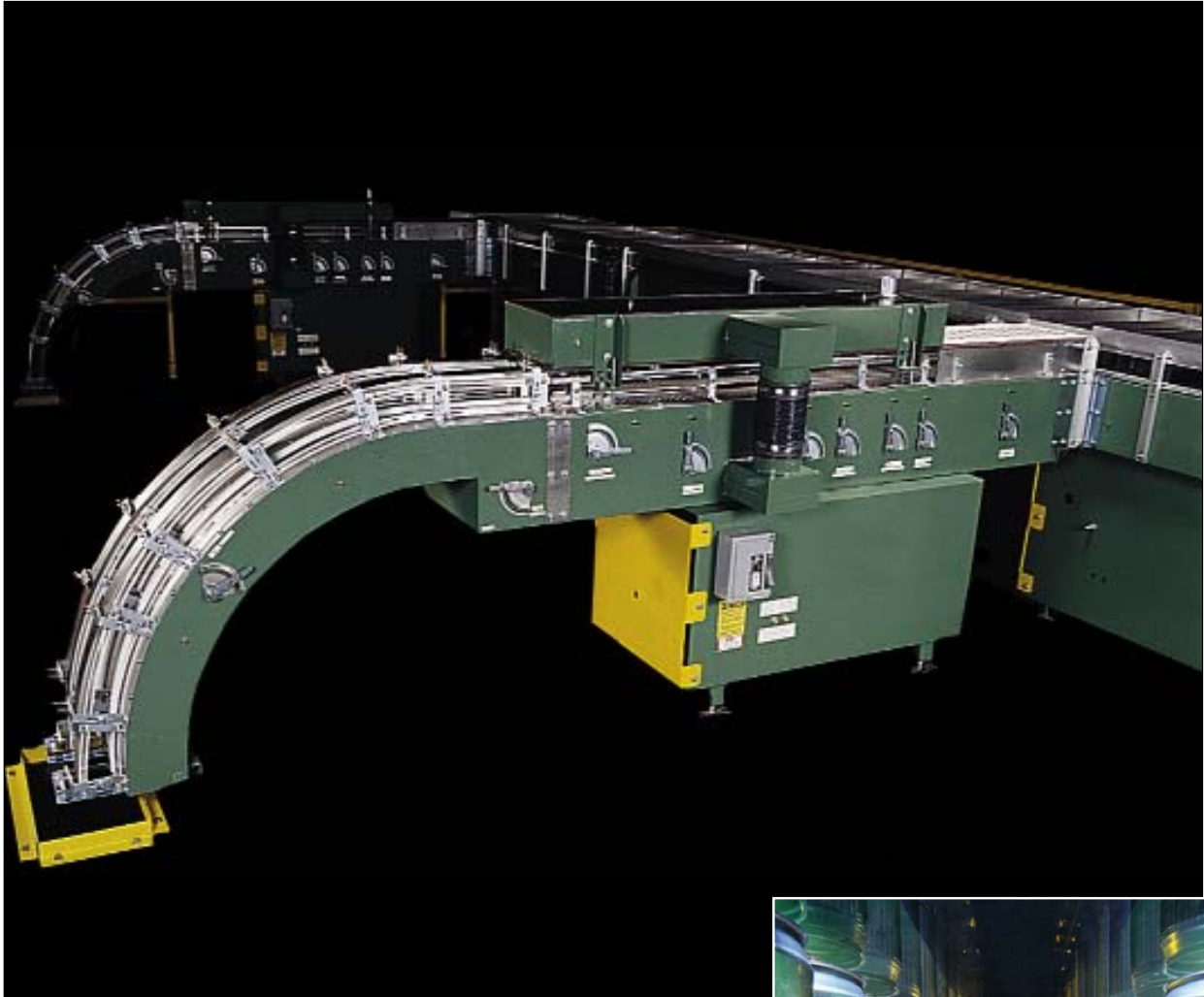


Dual lane high-speed single filing for can manufacturing system M2002 Vertical Air Single Filer



Features:

- Speeds up to 1000 cpm (500 cpm per lane)
- Complete compact modular design
- Compatible for both aluminum and tinplate cans
- Easy adjustment for various can heights and diameters
- Independent zone pressure controls



Barry-Wehmiller

Dual lane high-speed single filing for can manufacturing system

M2002 Vertical Air Single Filer

Fleetwood's Model M2002 Dual Lane Vertical Air Single Filer is specifically designed for high speed vertical single filing of aluminum and tinplate cans. The single filer converts a mass of vertical containers into dual single file streams. 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 an internal coating process. The M2002 can manage dual gapless single file lines at speeds exceeding 1000 cans per minute or 500 cans per minute for each lane for decorated aluminum cans. The machinery can also be fine tuned with manual dampers to regulate and efficiently handle various specified speeds.

Principle of Operation

The principle of air conveying in a vertical air single filer is thought of as front wheel drive. It is much easier to move containers in the rear if those in front do not have to be pushed. The containers in the rear should not push but be allowed to

maintain container to container contact with a minimum of pressure.

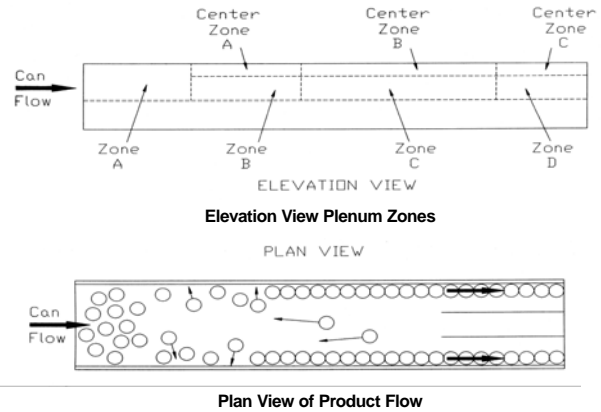
The container flow speed in the single filer must increase at a rate proportionate with the reduction in the mass conveyor area until single file is achieved. Consequently, the M2002 must be supplied by an air mass conveyor.



Pressure Zones and Air Flow

The containers are patterned to single file using a critical design of air jet arrangements and multiple zones once inside the body of the single filer. The combined effect of the single filing area being totally enclosed, the air entering through the main air duct, and the air being directed to multiple zones both in the lower and the upper plenums 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.

The upper plenum of the single filing zones A, B, C, and D provide the air supply to regulate the containers vertical alignment as they flow along the rails in the single filing area. Increasing the top plenum pressure causes less tilt and



proper flow is achieved as the containers move perpendicular to the conveying surface.

The zones can be independently regulated with manual



dampers and pressure gauge indicators. Pressure settings are typical with variations dependent on application.

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.

The FleetwoodGoldcoWyard and AMBEC teams offers a complete line of can manufacturing mechanical and air conveying systems. We also provide service and solutions to meet your custom application. Please contact our Sales department to discuss your special application.

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