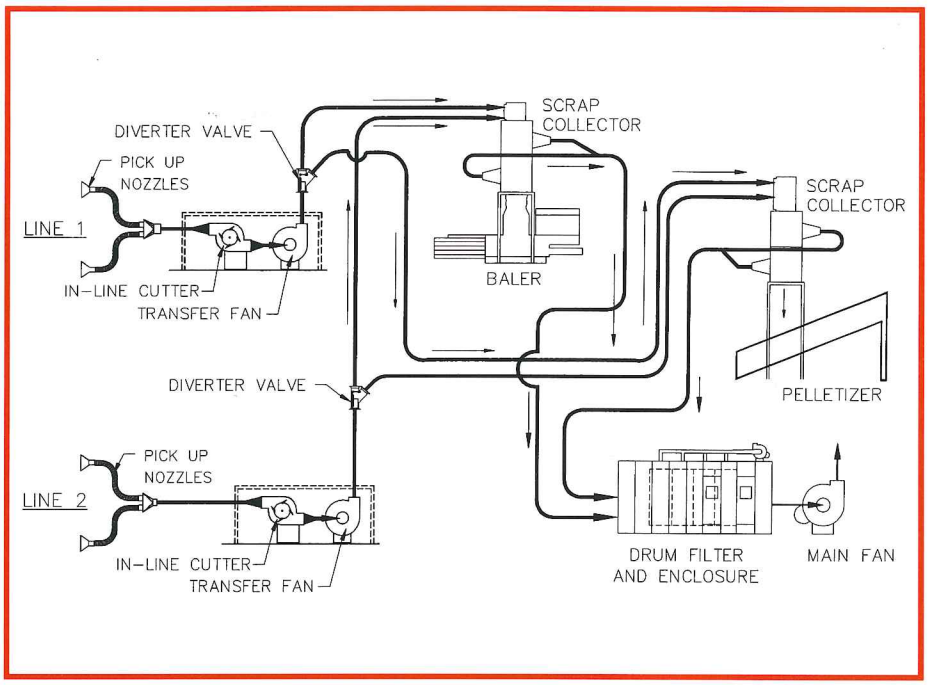
OSPREY Newsletter
FALL 1993

Spunbond Trim Handling System

Osprey recently installed a Trim Handling System that helped solve a problem for one of our customers involved in spunbond production. Before the installation, the customer was transporting his spunbond trim with a fan and collecting the scrap in bags. They needed a more efficient way to transport the trim and an alternative for collection and storage.

We installed pickup nozzles at the line to transport the trim through a cutter to a series of Osprey Scrap Collectors. The trim and air are separated in the Scrap Collector, and the dusty air is sent to an Osprey Drum Filter. The Scrap Collectors are mounted over either a baler or a pelletizer. This configuration gives the customer the option of either baling the trim for future use or pelletizing the trim as a part of the production process. From the pelletizer, the reclaimed pellets are sent to a series of storage hoppers, which feed multiple lines. From the hoppers, the reclaim pellets are sent to a blender, where the reclaim is mixed with virgin material before entering the extruder.



With the Osprey Trim Handling System, our customer now has the ability to remove the spunbond trim from the production line and either turn the trim into pellets so that the spunbond can be reintroduced into the process, or send the trim to a baler for future use. At the same time, all air is being cleaned by the Osprey Drum Filter.

Osprey Drum Filter Tested — Receiving High Scores

by Marty Price, Product Development

This summer during June, July, and August we tested the Osprey Drum Filter. A Drum Filter with Final Filter was built specifically for our Product Development Center and all air quality testing was conducted by Air Techniques of Marietta, GA.

Materials selected to be run on the Filter were textile waste, cellulosic dust from tissue operations, and cellulosic containing super absorbent polymer. Air volumes were set at a standard 100 feet per minute (FPM). Ambient temperatures ranged from 72° F to 98° F and relative humidity ranged from 40% to 75% during the tests. In other words, we did not pick ideal conditions.

Although not all of the test results are back from the lab, we are pleased to announce that the efficiency of the Osprey Rotary Drum Filter with Final Filter is averaging 99.96% efficient on all materials tested. As a matter of fact, it was almost impossible to detect any difference in efficiency between the various dusts and fibers. Feed rates to the Drum Filter ranged from 15 pounds to 60 pounds per hour at an air volume of 7,800 CFM. We will publish additional test results in the future. In the meantime, contact our Product Development Center or Engineering Department for additional information.

SAP Dosing System Versatility — An Update

by Natalie Leggio and Sue Gilman

Osprey customers are using the Osprey SAP Dosing System without the transport fan and tubing unit. The SAP is gravity fed into the product in a continuous flow. The SAP Dosing Unit can be mounted directly over the forming chamber or over a moving web.

Osprey SAP Dosing screws continue to improve. We have recently acquired a Mazak CNC Vertical Mill, which has increased the precision of our SAP screws. This development is part of ongoing upgrades in the Osprey SAP Systems. We have been conducting studies on the accuracy of the SDU and are learning more and more about which super-absorbent polymers work best with which size screw. For customers who need a delivery system for SAP introduction, Osprey's is constantly improving. Contact Osprey Engineering Department for more details.

On the Drawing Board

by Marty Price, Product Development

- New line of mechanical **stock separators** and **fiber condensers** featuring easy maintenance; internal screens can be changed in a matter of minutes. Look for modification kits to be available for older condensers and separators.
- New **Drum Filter with multiple configurations** for cleaner air, smaller size, and lower price per CFM. Look for modification kits here, as well.
- Built-in devices that will allow the Drum Filter to handle a greater quantity of fiber.

What's New

by Marty Price, Product Development

- **BE-4242 Bale Eater** accepts fiber bales of 42" x 42" cross-section.
- **New Bale Eater** offers lower cost and improved reliability.
- Newly re-designed **Vertical Feed Hopper** featuring a new 7-roll discharge assembly.
- FS-50 and **Fluff Separation System** test unit now at PDC (Product Development Center) allows for full testing and demonstration of our smallest separation system.
- New **digital roll balancer** at PDC.
- New line of bolt together **diverter valves** which feature a new pneumatic actuator.

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