



# OSPREY Newsletter

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## Vertical Hopper Hits the Market

by Martin A. Price, Product Development

The Osprey Vertical Hopper, first mentioned in the "On the Drawing Board" column in past newsletter editions, is now part of Osprey's production line.

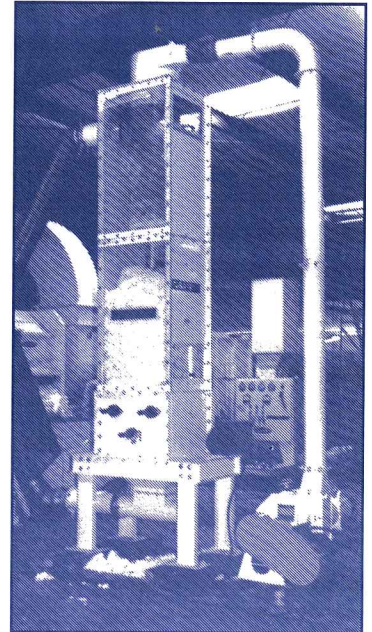
The unit consists of a bottom-mounted powered discharge assembly made up of three flighted rolls, a discharge transition, drives, electric clutch and motor. On top of the component, is a separator section which consists of a tangential inlet manifold, inner separation sleeve, and exhaust manifold.

Sandwiched between the separator section and the discharge section is at least one storage module. Standard height for this module is 48" with a cross sectional dimension of either 24" x 24" (the smaller VH-24) or 24" x 48" (VH-2448), depending on the model selected. Taller or shorter storage modules are available for custom installation. Also additional modules can be added later if overhead space permits.

By publication date, at least two vertical hoppers will be operating at customer locations.

At the Conyers test facility, the vertical feed hopper is fed by a BO-3036 Bale Opener and discharges its stored fluff into a Model VF-12 Volumetric Feeder. Anyone interested in an inspection should contact the Osprey sales department.

The vertical hopper also provides a convenient means of storing fibrous material and possibly chips and flakes. If you have material you would like to test on the VH-24, please contact our factory. 🐾



*The Vertical Hopper provides a convenient means of storing fibrous material and possibly chips and flakes.*

## Substitute Inline Cutter

Osprey's special scrap fan with adjustable inlet cutter sleeve is now available for those companies that have an application involving the removal of continuous trim or other long or bulky pieces, and where the use of an in-line cutter is required.

When using an in-line cutter, generally there is a fan downstream to create suction. However, by using the Osprey scrap fan, size reduction and vacuum are generated at one point, thus saving space, horsepower and a great deal of continual maintenance. The scrap fan requires no sharpening or adjustments other than normal bearing lubrication.

Products which are successfully being moved via the scrap fan include disposable diapers and underpads of varying sizes and shapes, continuous paper trim, fiberglass edging, plastic edging, polystyrene sheets and packaging material, and cardboard strips and cutouts. The amount of cutting action is determined by the adjustment of the inlet sleeve.

This fan does not satisfy every application; however, if it can handle your material, then a great deal of up front and long range savings can be realized. If you have an interest in this fan, please contact Osprey Corporation to arrange a test run of your product. 🐾



## “Accidental” Separator

When Osprey Corporation set out to create the vertical feed hopper, the research and development department had to decide on a material and air separator to be mounted in the top of this hopper. Although Osprey builds several types of mechanical separators, the designers decided on a much scaled down version of the scrap collector which entails a top-mounted tangential manifold, a separation sleeve, and an exhaust manifold with balancing damper. The advantages of this separator include its ease of maintenance, lack of moving parts and its “forgiving” nature.

Measured inside, this separator is 2' wide x 2' deep x 4' high and can handle air

volumes up to approximately 1,400 CFM if hard connected to other equipment. Although it was specifically built for the vertical hopper, customers are now asking to use this separator in place of a cyclone, which tends to bridge at the bottom, or a stock handling condenser, which may be worn out. This “accidental” separator is called a Model SC-10.

If you have a need for a small separator, please contact our research and development department. Like the larger scrap collectors from which it is patterned, this small unit should easily handle anything from fibrous material to paper trim to plastic flakes. 🐉

## No Flow Detector Added to SAP Dosing Unit

by Steven K. Smith, Engineering Sales

With the addition of the “no flow” detector to the Osprey SAP Dosing Unit, a complete package for accurately inserting and monitoring SAP into a disposable product is now available.

The package consists of a 4.5 cubic foot stainless steel load hopper, custom metering device, venturi transport system, tubing assembly that includes the special insertion nozzle and the detector to indicate the loss of SAP in the transport system.

For more information on the unit or its components, please contact the factory. 🐉

## On the Drawing Board

... A more modular design on Osprey's line of **Scrap Collectors** to allow some field expansion or addition of bottom-mounted discharge conveyors.

... New **“How-To” Video Tapes** on installation, maintenance, adjustment, etc., of Osprey products. First tape available -- installation of Osprey drum filter standard two piece seal assembly.

... New **Hoppers, Silos, and other material handling components** specifically tailored to the plastics reclaim industry. 🐉

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## Recovering 8.3 Megawatts of Heat

by Martyn Jones, Osprey U.K., Engineering Sales

Osprey Corporation Ltd., in the United Kingdom, has successfully completed a heat recovery system for a major producer of Gypsum Board in the U.K.

The system consists of two Osprey designed spray recuperators spraying water into the exhaust of two board dryers and producing hot water for leaching gypsum. The recuperators, which are two meters in diameter and ten meters high, are manufactured in mild steel and lined with F.E.P.

Osprey has also recently finalized an order for a spray recuperator to be installed on the boiling copper in a brewery. The system is designed to recover 11 megawatts from the exhaust of the copper and produce hot water at 95 degrees C. The recuperator will be manufactured entirely in stainless steel. 🐉

*New “How-To” video tapes on installation, maintenance, adjustment, etc., of Osprey products now available.*



## Bale Opener Improvements *By Martin A. Price, Product Development*

Due to the continuing customer interest and the increasing cost of wood pulp, Osprey has made several improvements to the Model BO-3036 Fluff Bale Opener. These improvements allow the bale opener to increase its efficiency, turn out more pulp and function in a more flexible manner to suit individual needs.

One of the changes in this piece of equipment is an extended end feed conveyor which adds 12 1/2 feet to 13 feet of automatic conveyor belt behind the bale opener housing. This modification simplifies loading and lessens the chance of running out of pulp.

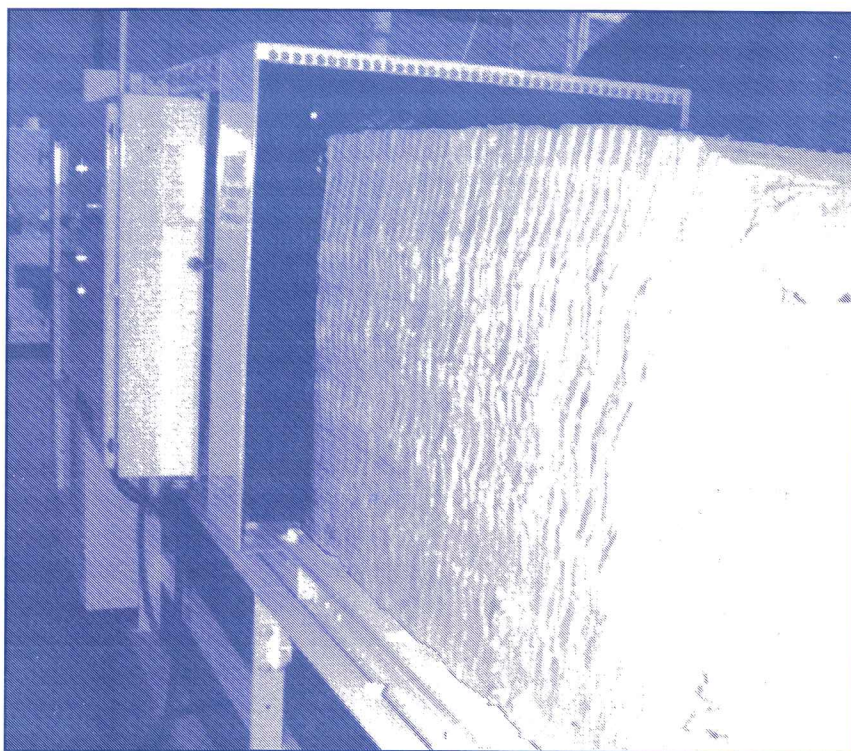
An increase to 35 1/2" wide X 41" high in the narrow point of bale travel inside the bale opener housing and the addition of a fifth breaker roll allows the BO-3036 to accept off-standard bales and bales made on equipment other than Osprey.

One of the biggest improvements is a new auto-reverse feature. When the bale opener starts from an at rest state, the end-feed belt which holds the bales reverses itself for a set of seconds in order to move the bale away from the tearing rolls. After the bale is backed off, thus allowing clearance, the rolls automatically turn on, and the belt switches to a forward direction.

An electric clutch has replaced the previous air clutch on the conveyor drive mechanism. The conveyor drive is now D.C., and its speed can be modified from the control panel with a potentiometer.

This feature increases the potential output of the BO-3036.

Yet another improvement is an outlet transition which reduces the amount of air necessary to evacuate the fluff from the tearing chamber.



Osprey currently has a model BO-3036 Bale Opener on display at our Conyers, Georgia test facility. If anyone is interested in inspecting this unit or seeing it in operation, they should contact the sales department. ✉

*The New and Improved Model BO-3036 Osprey Fluff Bale Opener.*

## Airborne Dust Levels Reduced In Tissue Mill

*By Martyn Jones, Osprey U.K., Engineering Sales*

Osprey Corporation Ltd., has just completed a dust control system on a tissue re-winder for a major tissue manufacturer. The system, supplied in association with Flakt Industria AB of Sweden, follows another dust control project completed earlier in 1988 for a paper mill in Northern Ireland.

Incorporating a patented Flakt head, the machinery is designed to remove dust

from the moving tissue web. Dust laden air extracted from the machine area is cleaned, in this case, in a wet type scrubber, and returned to the working area at low velocity. Airborne dust levels at the Northern Ireland plant were dramatically reduced from 60 mg/m<sup>3</sup> to under 2mg/m<sup>3</sup>.

A further system is, at present, being installed on a tissue production machine of a major U.K. tissue supplier. ✉



## Osprey Adopts Madison

Osprey Corporation is proud to announce the adoption of an Osprey named "Madison". Madison was adopted through the Florida Audubon Society's Adopt-A-Bird program which will, for a small annual fee, provide care, food and medical treatment for an injured bird of prey.

If you are interested in obtaining more information about this program, please contact:

Adopt-A-Bird Program  
Florida Audubon Society  
1101 Audubon Way  
Maitland, FL 32751  
(407) 647-2615 

## Your Vote is Important

In 1645, one vote gave Oliver Cromwell control over England.

In 1649, one vote caused Charles I of England to be executed.

In 1776, one vote gave America the English language instead of German.


In 1845, one vote brought Texas into the Union.

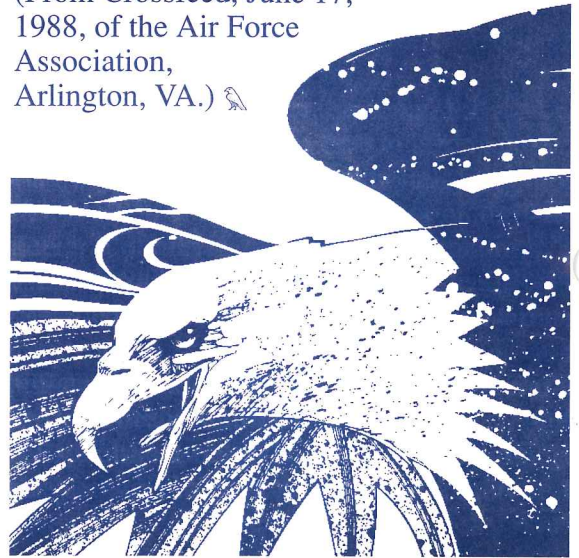
In 1868, one vote saved President Andrew Johnson from impeachment.

In 1876, one vote changed France's form of government from a monarchy to a republic.

In 1923, one vote gave Hitler control of the Nazi party.

In 1941, one vote saved the military draft just weeks before Pearl Harbor.

(From Crossfeed, June 17, 1988, of the Air Force Association, Arlington, VA.) 



**OSPREY CORPORATION**

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