



## **PACKAGING MACHINERY**

# Plant keeps packaging in the loop



**W Y O N G - B A S E D**  
**DONALDSON** Australasia has provided a vital waste handling system to facilitate a growing recycling loop between one of Australia's largest dedicated sheet-fed print communications businesses and Visy Recycling. In fact Visy Recycling subsidised the entire project to ensure an uninterrupted supply line of raw material can be purchased for its dedicated recycling plants.

Donaldson Australasia's Dominique Ollitrault says Penfold Buscombe originally committed to upgrade the facility not just to preserve valuable resources but to maintain a very clean working environment for its employees.

"The new waste paper handling system has been installed to replace the existing system which was not coping with the increasing workload," says Ollitrault.

"It is now a 24/7 operation creating offcuts from books and magazines that run off stitching lines and folding processes, as well as waste from general printing, cutting and binding. The idea was to stay one step ahead of any blockages and machine downtime so as to avoid potential labour allocation to pick up mess or empty full bins, plus it ensures workers don't face a dusty environment near the compactor", he notes.

"Our solution was to install a system comprising a separator AMSP35, rotary valve RV750, two paper trim fans (1 x 75kW, 1 x 30kW), Dalamatic DLM 3/5/15 dust collector and a 55kW clean air fan. The system has been designed to allow an extra capacity of volume (30%) for growth and future additions to the shop floor. It easily copes

with output from one of the fastest growers in the printing industry, yet currently it only needs about 2/3 capacity to handle all the tasks." The company says this system is now facilitating waste handling of product from seven presses, seven folders, three stitching lines, one mailer and four guillotines.

The way its business has been expanding, it was clear the old system wasn't adequately designed to cope with volume, or to perform satisfactorily at the discharge point.

Now everything has been replaced, including the ducting and the new collector contains a sensor to eliminate any potential overflow that could halt work.

Penfold Buscombe's purchasing manager, Anthony Cook, says paper-trim handling is very different to just straight out dust control, hence specific solutions were implemented by Donaldson.

"Matters such as installing the right size and configuration of ducting become increasingly important, such as on discharge points where high volume is being handled. Overall system performance is highly vital in the middle of the night when labour resources are at their lowest and any problem would have meant a slowdown in production. This new solution has improved productivity by about 20% and potential downtime is much less of a concern compared to what it was before," Cook notes.

Visy Recycling collects the waste from Penfold Buscombe and moves it to its bulk centre in western Sydney for sorting and compressing into one tonne blocks, before shipping to various sites for re-use.