



VORTEX FLEX TUBE DIVERTER HANDLING BOOK TRIMMING

Customer: Printing Company

Material: Page Trimmings

Application: Convey book trimmings through a vacuum system to two collection points.

Challenge: Locate a switching valve that will handle long strips of paper without seizing up.

Valve: Vortex Flex Tube Diverter T8-2CSY-MG

Results:

In the process of making a book, individual sheets of paper are assembled and stitched into a spine and cover. The resulting stack of paper is then trimmed so that all the pages will be perfectly aligned with each other. The trimmed strips of paper must then be evacuated from the trimmer and collected for disposal or recycling.

During trimming, this printing company creates individual strips of trimmed paper as well as spine pieces. When conveying material away from the trimmer, each type of trimming poses an issue. The individual strips of paper are light and can be conveyed long distances through a dedicated line. The spine pieces are heavier and can only be conveyed shorter distances. A diverter valve had been considered to direct each type of trimming to a receiver nearby or to a bailer further away. Unfortunately, most diverter valves do not handle strips of material well. The strips collect in the diverting mechanism or in an "off leg," causing the diverter to seize up and not work properly.

Previously, the company was able to run a direct line to transfer paper strips to the bailer; however, the spines had to be cleaned out of the trimmer by hand. Clearing the spine pieces from the trimmer added considerable down time to the overall trimming process.

A Vortex Flex Tube Diverter was selected to address all the issues inherent with this application. The smooth, unobstructed transition through the diverter eliminates any pockets where material can lodge or become trapped. Diverting the two byproducts is accomplished through a toggle-switch, located between the diverter and the trimmer. A sight glass allows the operator to see which material is being sent through the diverter. Hand clearing the trimmer of the larger spine pieces is no longer an issue.

