

Case History



Smart Elbow™ Excels for Pulp & Paper

There were several reasons that a British Columbia, Canada, sawmill chose the Smart Elbow™ for installation in a new pneumatic conveying system. Due to the potentially abrasive nature of wood chips and dust when conveyed pneumatically, plant engineering designed the new system to perform without necessitating the repair and replacement chores that would have been created by the use of conventional sweep elbows.

The new system handles the collection and routing of cedar dust and shavings from the sawmill's two planer mills. The original system was a total low pressure system and simply couldn't handle the demands placed upon it. Late in 1990 the new system, consisting of a low pressure pick up line and high pressure transmission lines, was installed.

In the new system, low pressure

fans draw materials from the planer mills to filter baghouses where the material is then inserted into high pressure conveying lines by means of rotary air lock feeders.

Once material enters the high pressure lines, it is routed either to a new clean burning thermal plant which is used to provide heat for lumber drying kilns, or to a scow on which it is transported along with hog fuel to pulp mills.

The Smart Elbow™ by HammerTek allows change of conveying direction without the wear and plugging common to conventional elbow designs.

Four Smart Elbows™ of 10" diameter were chosen for several locations in the high pressure system. The engineer on this project had successfully used the Smart Elbow™ five years ago at another site. Based on previous experience, the Smart



British Columbia Sawmill

Elbow™ is expected to reduce system maintenance over the long term, and will result in a more compact system, due to its smaller physical size. Ease of mounting the Smart Elbows™ was another reason the HammerTek elbow was chosen for this particular application.



10" Smart Elbows™ in new high pressure system.

The Smart Elbow™ is available in a variety of materials and a wide range of pipe and tube sizes. For more information, contact HammerTek Corporation, P.O. Box 416, Landisville, PA 17538, 1-800-505-9665, 717-898-7665.

