



HOW TO INCREASE LOG SAW EFFICIENCY WITH THE ROLCO DUAL SAW INFEED SYSTEM

PROBLEM: The inability to provide a constant flow of product to two log saws from one accumulator creating a loss in efficiency.

SOLUTION: A continuous dual lane delivery system engineered by Rolco International.

Many tissue manufacturers have log saw delivery systems that use a carousel style log carrier design to feed both log saw infeed conveyors. This style system is typically engineered to give the first saw priority and can at times starve the second log saw. This will result in lost production for the entire line.

Rolco International has developed an engineered solution that solves the inefficiency of carousel log carrier systems called the Dual Saw Infeed System. The benefit of this system is to achieve maximum efficiency in the line, including on-demand control of the accumulator.

The Dual Saw Infeed System works by using two discharge levels on the main accumulator to feed two smaller saw supply accumulators. Each saw supply accumulator will feed a separate quad discharge which loads logs into the log saw infeed conveyor. The machines are programmed to keep both saw supply accumulators as full as possible at all times. This allows the quad discharge to have logs available for the saw. The two saw supply accumulators act independently which allows the saws to operate at different or variable speeds. For example: If the main accumulator was almost full either one or both saws could increase in speed to help empty the accumulator and keep it available for production.

Another benefit of the system involves the zoned e-stops. The system has three separate zones. The first zone contains the discharge of the main accumulator and the infeeds of both saw supply accumulators. The second zone is at the first saw quad discharge, and the third zone is at the second saw quad discharge. If any zone has a problem, the other two zones will continue to operate. If there is a problem at the quad discharge to the first saw, the second saw will continue to operate. The guarding associated with each area will allow access only to that area. The area can be locked out and entered safely to correct the problem. (*See drawing on page 2.*)

In production situations where the Dual Saw Infeed System is a fit, the payback in increased efficiency can be achieved within two years. Rolco's tissue experts and equipment engineers are available to give a full assessment on location to evaluate the feasibility of a new or existing equipment solution.

Rolco International specializes in vertical accumulators that are engineered to compensate for upstream and downstream stoppages in production. In addition, Rolco also engineers custom equipment such as product storage and retrieval machinery, assembly and production line balancing equipment and tissue and towel sealing equipment and log accumulators. Rolco has also designed similar tissue saw infeed systems to feed up to three two-lane log saws from one main accumulator.

For more information, visit www.rolcoint.com, or call our Rolco specialist, Bob Cass at 920-233-3268. He works out of Nercon's home office in Oshkosh, Wisconsin. Rolco International is a division of Nercon Eng. & Mfg., Inc. Nercon is a 35 year old engineering, design and fabrication company that provides conveyor systems and material handling equipment to consumer product manufacturers. Visit www.nercon.com for more information.

ROLCO DUAL SAW INFEEED SYSTEM

