The next step in blade holder technology

Kadant revolutionized dewatering of couch and suction rolls with the double doctor in the early 1990s. Our understanding of natural vacuums and surface tension enabled these doctors to quickly become a standard in the industry.

The AirSet B blade holder improves on this design by using air to enhance the vacuum behind the blade tip to maximize the dewatering effect. The conventional, replaceable doctor blade removes water from the surface of the roll, minimizing surface tension. Air is fed into a cavity that is built into the unique shape of the holder and exits at high velocity parallel to the roll surface behind the primary blade. An enhanced vacuum is created behind the blade which extracts the water from the holes in the roll surface. The unique base design of the holder then creates entrainment zone, which suspends the removed water away from the roll surface for removal by a secondary doctor blade or pan. The compact AirSet B design retrofits to standard DST-E and similarly sized holders, requiring little or no doctor repositioning.

Efficient doctoring of water removal rolls can result in increased consistency, less breaks, and longer paper machine clothing life.

For more information contact your local Kadant District Manager.