



## Martin MDR Technology

*An advanced solution for web handling*

### What is MDR?

MDR (magnetically driven roller) technology is a new approach to handling webs at lower tension levels and higher operating speeds.

MDR (patent pending) applies a magnetic link between web transport rollers and drive system. This substantially reduces or eliminates the negative impacts on a web resulting from roller inertia, bearing friction, speed change, and entrained (boundary layer) air. The result is a system that operates at significantly higher speed and lower web tension.

MDR technology can be applied to web transport systems as well as to Martin's line of high-performance unwind systems.

### How can MDR benefit my process?

- \* Increase process speed
- \* Enable optimal lower web tension levels
- \* Improve web transport within an unwind or process.
- \* Save space by reducing physical size of unwind equipment
- \* Increase production of saleable product
- \* Reduce process waste
- \* Optimize the bottom line

### Why did Martin develop MDR?

"The continued emphasis in converting and printing today is to increase throughput by increasing process speeds," says Mike O'Hea, manager for the MDR project. "At the same time, material basis weights and calipers continue to decrease. These lighter material structures can only run successfully at lower web tension levels, restricting the ability to reach higher speeds."

O'Hea continues, "Martin manufactures zero-speed splicers for nonwovens and other extensible webs. For good reasons, zero-speed splicing of nonwovens (using a storage festoon or accumulator to pay out web while the splice is made) is the preferred and often necessary method of automatic roll changing. But these opposing trends of lower tensions and higher speeds present real challenges for splicing and web handling. MDR is an effective new tool to overcome these challenges."

"Martin has matched process speeds of up to 2000 fpm/610 mpm with our light web zero-speed splicers. MDR will enable splicing speeds well beyond this level, helping our customers improve their productivity." O'Hea concludes, "MDR technology enhances the exceptional value that Martin zero-speed splicing brings to the nonwovens industry."

### Where do I go for more information?

MDR is a technology, not a product. Talk with the experienced engineers at Martin Automatic Inc to determine how MDR may be applicable to your specific process.

*Note to editors: For more information, please call Craig Thomson or Kelly Hart at 815-654-4800.*



**Martin Automatic Inc** High Performance Splicing, Rewinding and Tension Control Systems

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