

Game changer:
Unwind technology reduces production stops for packaging company

Evergreen Packaging runs a 24/7 operation to meet high demand. Their previous machinery could not handle splicing wide substrates without production stops.

Challenge

To meet high demand for their products, Evergreen Packaging needed to improve their splicing capability, thereby reducing stoppages over the 24/7 production cycle.

Machine availability
Their previous unwind and splice section could not reliably make large roll changes without stopping.

Unreliable operation
Mis-splices, where the ends of two rolls are not properly joined, were common.

Solution

New Era, a part of IPCO, worked closely with Evergreen to understand the requirements and develop a solution with the capability to match their always-on production schedule. The team supplied and installed a wide web, high-speed automatic unwind with independent arms for chucking a wide range of material widths.

Consistent precision
Mis-splice rates dropped to less than 0.5% (including those caused by operator and raw material issues).

Reduced downtime
Significantly fewer stops, even for large changes.

Improved working environment
Greater level of automation for a cleaner and less stressful work environment.

Collaborative partnership and support
The New Era team worked alongside Evergreen from concept to installation, offering ongoing support.

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Automatic lap splice unwind solution for carton and cup material production

Evergreen is a global business specializing in packaging for liquids – tabletop cartons and cups. Already running a 24/7 operation to meet demand, they were unable to make large changes on the fly with their existing line and needed robust unwinding equipment that could reliably automate the process.

The automatic lap splice unwind was designed specifically to Evergreen's requirements after an in-depth engineering review and approval process.

By ensuring smooth and precise automated splicing, the new unwind significantly reduced the need for unscheduled stops and troubleshooting – which increased production efficiency. In turn, this resulted in reduced waste and a more stable process.

System features

- **Customized solution**: the high-speed splicing system needed to be both reliable and versatile, to handle the wide range of materials and widths Evergreen runs.
- **Robust process**: A pull roll was added to isolate any downstream equipment from the automated splicing equipment.

By partnering with New Era, Evergreen has been able to handle roll changes to and from wide rolls with precision. Increased automation and significantly less downtime for mis-splices ensure they can meet a demanding production schedule with confidence.



IPCO: Your partner for web handling solutions

- **Unwinding equipment**
  New Era, a part of IPCO, offers purpose-built unwinding solutions for improved productivity in web converting applications. From single-position units to multi-spindle unwinds, each design is custom-implemented for the materials and processes you work with and can be sized to meet your needs (from approx. 12 cm to over 6 m width), with speeds up to 900 m/minute. New Era has multiple patents associated with unwinding, including an automatic on-the-fly butt splicing system.

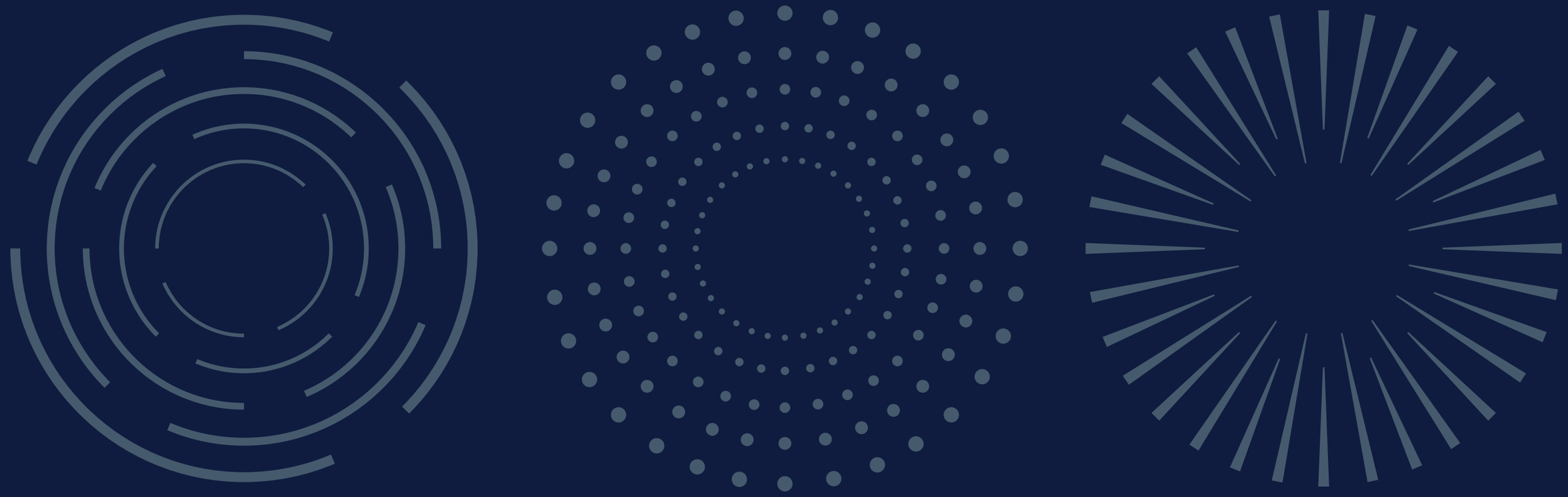
"The best thing that we experienced working with New Era was the business relationship that we developed over time. … Their equipment has improved our operation here dramatically through the reduction of mis-splices. We're currently making 99.5% or better of all splices for all reasons."

Jay Clary, Extrusion Business Unit Manager, Evergreen Packaging









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