



Darwill installed a Hunkeler UW6 Unwinder on the front end of its new ProStream 1000 Press. On the back end, the DP8-II Dynamic Perforator feeds into a CS8-II Rotary Cutter and LS8 Stacker to deliver cut sheets ready for further finishing.



The Hunkeler Gen8 Roll-to-Cut/Stack solution features fully automated, no-touch changeover between 1-up, 2-up, 3-up, and 4-up stacks, resulting in significant cost savings due to reduced changeover time. At the show, book blocks were being finished on the near-line Horizon BQ-480 Perfect Binder.



Cutting-edge printer adopts new technology to continue their evolution

Darwill Leverages In-Line Finishing with Hunkeler Generation 8 to Improve Inkjet Quality, Productivity.



New opportunities drive need for efficient finishing that can keep pace with high speed press.

Headquartered in Hillside, Illinois, Darwill is in its third generation of family ownership since 1951. The company has evolved from printing signs for local shoe companies to a national operation with 200 employees and offices in Illinois, Colorado, and Georgia. A premier provider of complex marketing products including direct mail, employee communications, and marketing collateral, Darwill is growing in a market that can often be challenging.

Darwill made a transformational move to production inkjet printing in 2014 with the acquisition of two Canon ColorStream presses with in-line Hunkeler finishing. Last year, Darwill added to its Canon portfolio with the acquisition of a Canon ProStream 1000 press, the first U.S. customer to install the press with Hunkeler Generation 8 in-line finishing.

“Our volumes continue to grow,” says Mark DeBoer, the company’s Director of Customer Experience. “We knew we needed to add capacity due to some new opportunities we have with new and existing customers who want high quality and shorter delivery times. We were attracted by the exceptional near-offset quality of the ProStream 1000. But we also wanted to make sure we had the most efficient finishing operation in place as well.” The Darwill team consulted with the Standard Finishing team to learn about the latest developments from Hunkeler and Horizon to determine the best finishing configuration for this new press. “We implemented Hunkeler equipment with our first two inkjet presses,” DeBoer adds. “We have developed a good working relationship with Standard and Hunkeler and received excellent support from them. Plus, we wanted to keep all of our equipment similar to reduce the amount of operator training required, so Hunkeler was an easy choice to make.”

With its new ProStream 1000, Darwill installed a Hunkeler UW6 Unwinder on the front end of the press. On the back end, the DP8-II Dynamic Perforator feeds into a CS8-II Rotary Cutter and

LS8 Stacker to deliver cut sheets, offset stacked from 1-up to 4-up for near-line finishing. The system also includes chip-out, gutter cuts, and edge trimmers for full-bleed finish.



Mark DeBoer, Director of Customer Experience (left), and Tim Brennan, Digital Operator, discuss roll-to-stack job.

DeBoer points out that ink drying can be an issue with the increasingly heavy ink coverage customers are demanding as they replace offset applications with inkjet and take advantage of the fast turn and variable data capabilities digital printing offers. “When you feed that heavy ink coverage into a roll rewinder,” he explains, “heat and moisture can be trapped in the roll because you don’t have a lot of dwell time under the dryer. That can cause damaged output when unwinding for further finishing. By going directly to sheets, we eliminate that problem since there is more air between the sheets, and we can also fan them for better drying. We are also very pleased with the Generation 8 configurations because we can now print across three

channels, instead of the two we had before, to improve throughput.”

Since Darwill produces a lot of postcards, the company also needed a print/cut solution that could handle heavier stock. “We are printing postcards and self-mailers 3-up on 9-point standard offset stock,” DeBoer notes. “With this new configuration, we can take the output right to our Horizon CRF-362 Creaser/Folder for folding, then to wafer sealing and mail sorting, taking some steps out of the process for faster time to market.” DeBoer also says that the company needed a finishing solution that could keep up with the rated speed of the new press, and applauded Hunkeler for ensuring its Gen8 solution handles the press speed and more.

“We especially appreciate the proactive support we get from the Standard Finishing team,” DeBoer concludes. “They check in on us frequently to see what we are doing and how they can help. It makes a big difference!”

13th edition premieres multi-purpose solution

Innovationdays Draws 6,500 Attendees from 100 Nations.

Showcasing the future of high performance digital printing & finishing.

In February, the 13th edition of Hunkeler Innovationdays brought together nearly 100 suppliers and 6,500 attendees from 100 nations to showcase the future of high performance digital printing and finishing. Standard hosted over 70 leading print companies from North America, and provided guests with an exclusive preview of the latest updates to Hunkeler’s Generation 8 roll finishing solutions, including plowfolding and the ability to stack B2-size sheets in-line with high-speed inkjet presses. Hunkeler also unveiled advances in high-efficiency, high-speed unwinders and rewinders, digital cut-sheet finishing, integrated web monitoring, and document tracking and reporting. An additional highlight was Horizon’s smart book solution with integrated Hunkeler technology, going from roll to fully trimmed perfect bound books of variable spine length and page count.

Hunkeler World Premiere: Multi-purpose Finishing

Taking center stage in the Hunkeler booth was a multi-purpose Hunkeler/ Horizon combination finishing line capable of producing folded letters, postcards, books, and B2+ size sheets in one solution. The line was shown producing a direct mailer which included coupons and reply cards that were perfed dynamically (both vertically and horizontally) from one piece to the next using the optional DP8 Dynamic Perforator. The W18 Web Inspection System was integrated in the DP8 for in-line quality monitoring. After optional plow folding on the WF8 Web Folder, the line continued into the CS8-II Double-cut Cutter, capable of chip-out for full-bleed production. Output was either stacked, or transported to the Horizon AFV buckle folder at the end of the system for additional folding. Handling the widest range of substrates and formats yet, this system provides maximum application flexibility!

Fully Automatic Job Changeover on Generation 8

Hunkeler also demonstrated next-level automation with a technology presentation of the Hunkeler Gen8 Roll-to-Cut/Stack solution. The system features fully automated, no-touch changeover between 1-up, 2-up, 3-up, and 4-up stacks, resulting in significant cost savings due to reduced changeover time. At the show, this solution



Premiering in the Hunkeler booth was a multi-purpose Hunkeler/ Horizon combination finishing line producing either stacked or folded output from a paper roll. Web Inspection (above) ensures accuracy.

processed book applications with automated change between 2-up and 3-up jobs without any operator intervention. Book blocks were finished on the near-line Horizon BQ-480 Perfect Binder.

Check out a video of Hunkeler’s automated cut/stack line technology in action by scanning this code:



For more photos and videos, visit the Hunkeler Innovationdays website at: www.innovationdays.com/en/gallery-2019

Held every two years, the next Innovationdays is set for February 22-25, 2021, again in beautiful Lucerne, Switzerland.