From a white paper roll to finished products

Digital printing is much more than a new way of printing on paper. It’s an on-demand mindset that disrupts conventional production models. The technology allows efficient short runs, lower labor costs and faster turnarounds. And it changes the way service bureaus, commercial printers, direct mailers and book publishers process paper. Today, print production is a completely flexible process that opens up entirely new, unimagined and exciting possibilities.
**Powerful systems for digital paper processing**

Hunkeler develops and supplies innovative solutions for continuous feed paper processing throughout the digital print process: Modular, high-performance systems that present the paper to the digital press and then further process the printed paper through to the end product. Completely integrated systems are produced in close partnership with the leading digital press manufacturers. Centrally controlled, these systems guarantee the highest productivity, flexibility and process reliability.

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**So that everything runs perfectly**

One reason for the reliability and efficiency of our systems is the high level of service support. Around the clock and worldwide. Individual service modules allow Hunkeler to ensure support that is exactly tailored to your wishes. Our service hotline with Hunkeler Remote Assist – plus our spare parts and aftersales service – guarantee the highest equipment availability. With comprehensive service and operating documentation to assure professional attention and the highest possible machine productivity.

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**Expert partnership**

Success in paper processing applications requires knowledge and experience. We at Hunkeler have been continuously developing and refining this expertise together with our customers since 1922. With best-in-class engineering, machine components and control units, we have successfully mastered increasingly complex system integration.

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**Security becomes transparent**

With the Hunkeler Control Platform we offer you hardware and software for quality control and document tracking throughout the printing process. Scalable design enables customized, user-specific solutions. Thanks to flawless web inspection and tracking, you will have good answers to these questions and more in the future. It’s always better to be on the safe side, with Hunkeler as your trusted partner.

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The versatile Dyna-Cut feature of Hunkeler finishing offers fully dynamic sheet length control. It allows cutting and stacking of variable sheet lengths with automatic changes on the fly, increasing the flexibility and profitability by saving unwanted waste.
Roll to Roll Solution

The Hunkeler roll to roll solution with different configurations for continuous feed digital presses. High-speed Hunkeler unwinders and rewinders ensure efficient, productive downstream processing in the transactional, direct mail, print-on-demand and packaging segments, coupled with inserters and other finishing systems.

Technical Data* | Roll to Roll

<table>
<thead>
<tr>
<th></th>
<th>POPP6 (UW6-RW6)</th>
<th>POPP7 (UW7-RW7)</th>
<th>POPP8-Wide (UW8-W-RW8-W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. roll diameter:</td>
<td>54&quot; (1370 mm)</td>
<td>54&quot; (1370 mm)</td>
<td>54&quot; (1370 mm)</td>
</tr>
<tr>
<td>Web width:</td>
<td>6.5&quot; – 20.5”/ 22&quot;</td>
<td>6.5&quot; – 30&quot;</td>
<td>8” – 30”</td>
</tr>
<tr>
<td>Production speed:</td>
<td>up to 254 m/min</td>
<td>up to 220 m/min</td>
<td>up to 305 m/min</td>
</tr>
<tr>
<td>up to 833 ft/min</td>
<td>up to 720 ft/min</td>
<td>up to 1000 ft/min</td>
<td></td>
</tr>
<tr>
<td>Paper weights:</td>
<td>40 – 300** gsm</td>
<td>40 – 300 gsm</td>
<td>40 – 300 gsm</td>
</tr>
<tr>
<td>Roll weight max.:</td>
<td>800 Kg (1760 lbs)</td>
<td>800 Kg (1760 lbs)</td>
<td>1500 Kg (3360 lbs)</td>
</tr>
<tr>
<td>Options:</td>
<td>**Heavy paper kit: 180 – 300 gsm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Decirler, Web Guide, Slitter

Statements
Invoices
Personalized letters

Printing System

Rewinder RW8-W
Unwinder UW8-W

Unwinder for Inserters

Unwinder for Inserters

Unwinder UW6 | UW7

Printing System

Rewinder RW6 | RW7

Web Inspection WI8

Unwinder UW6 | UW7

Quality control with WI8
Loose leaf stacks with CS8, LS8
Hole punching with PP6

Roll production with center cut
Roll to Fan-Fold Solution
The modular Hunkeler roll to fan-fold solution with optional punching and perforating for in-line tractor and file hole punching and fan-fold perforating. This efficient workflow solution can reduce paper and logistic costs in digital print and mail inserting environments. Reliable, inline high-speed operation with continuous feed printing systems in a space saving package with modular options that include a stack cart system, high capacity stacker, and web inspection.

Technical Data* | Roll to Fan-Fold
| Max. roll diameter: | 54” | 1370 mm |
| Web width: | 8” – 20.5” | 203 – 520 mm |
| Production speed: up to 720 ft/min | up to 220 m/min |
| Paper weights: 56 – 160 gsm | 16 – 40 lb bond |
| Stack height: | 39.4” | 1000 mm |
| Folding perforation: | 7” – 14” (static) | 178 – 355 mm (static) |
| Folding height: | 7” – 17” | 178 – 432 mm |

Options F56: Shingle Belt Delivery, Stack Cart System, High Capacity Stacker, Stack Turning
Options PP6: File hole punching, Register Mark printing, different cross perforation cylinders

Roll to Stack Solution
High-performance Gen8 finishing line for the roll-to-stack production with CS8 cutting module, separation module and LS8 stacking module. Web widths of 22-inches will be processed at 590 ft/min. DynaCut function for variable-format production allows cut-off length changes while running. Gen8 technology is ready for future printing speeds. Reliable processing of demanding products in full-color on coated and uncoated standard paper, from light-weight to heavy-weight grammages. The new Hunkeler Workflow Manager provides user-friendly and convenient operation of the production line.

Technical Data* | Roll to Stack Solution Gen8
| Max. roll diameter: | 54” | 1370 mm |
| Web width: | 8” – 22” | 203 – 560 mm |
| Production speed: up to 590 ft/min | up to 180 m/min |
| Paper weights: 40 – 300 gsm | 27 lb offset/book – 110 lb cover |
| Stack height: up to 10” | up to 254 mm |
| Format length: | 5” – 19” | 127 – 482 mm |
| Variable chip-out: | 1/4” – 2” | 6.3 – 50 mm |
| Applications: | 1up – 4up |

Options: Dyna-Cut, Tracking
Transpromotional

Roll to Stack Solution with Dynamic Perforation/Punch and Web Merger

The DP8 dynamic perforation module is the first solution that combines perforation in the vertical and cross directions along with punching – all in one unit. «Dynamic» means the ability to change the punching, perforating or hole pattern from sheet to sheet. It is particularly interesting for transpromotional applications or personalized mailers. Coupons, payment slips and other elements can be integrated into practically any type of document, even those with forms that vary with each sheet.

Technical Data* | Roll to Stack with DP8 – WM8 – LS8

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. roll diameter:</td>
<td>54” (1370 mm)</td>
</tr>
<tr>
<td>Web width:</td>
<td>16” – 20.5” (406 – 520 mm)</td>
</tr>
<tr>
<td>Production speed:</td>
<td>up to 420 ft/min (128 m/min)</td>
</tr>
<tr>
<td>Paper weights:</td>
<td>60 – 120 gsm (16 – 32 lb bond)</td>
</tr>
<tr>
<td>Stack height up to:</td>
<td>10” (254 mm)</td>
</tr>
<tr>
<td>Variable chip-out:</td>
<td>1/4” – 1” (6.3 – 25 mm)</td>
</tr>
<tr>
<td>Format length:</td>
<td>5” – 14” (127 – 482 mm)</td>
</tr>
<tr>
<td>File hole punching:</td>
<td>2-, 3-, 4 hole pattern (Ø 5.5 – 8 mm)</td>
</tr>
</tbody>
</table>

Preferred dies: □ □ □ □ □

Options: Offset separator SE, Gutter cut, Web Folder WF8
Roll to Stack Solution with Dynamic Perforation/Punch

Dynamic perforation and punching combined in a modular concept. In 2-up production individual processing of the two web halves is possible. Combined use of three different is possible in a single module (dynamic perforation in the vertical and cross direction, and dynamic file hole punching).

**Performance DP8:**
- Dynamic vertical and cross perforation
- Dynamic file hole punching

**Technical Data**

<table>
<thead>
<tr>
<th>Roll to Stack with DP8</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. roll diameter:</td>
<td>54”</td>
</tr>
<tr>
<td>Web width:</td>
<td>8” – 20.5”</td>
</tr>
<tr>
<td>Production speed:</td>
<td>up to 590 ft/min</td>
</tr>
<tr>
<td>Paper weights:</td>
<td>60 – 160 gsm</td>
</tr>
<tr>
<td>Stack height:</td>
<td>10”</td>
</tr>
<tr>
<td>Variable chip-out:</td>
<td>1/4” – 2”</td>
</tr>
<tr>
<td>Format length:</td>
<td>5” – 14”</td>
</tr>
<tr>
<td>File hole punching:</td>
<td>2-, 3-, 4 hole pattern Ø 5.5 – 8 mm</td>
</tr>
</tbody>
</table>

**Options:** Stacker LS8, Web Merger WM8, Web Folder WF8

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**Dynamic Perforation and Punching module DP8 – different configuration possibilities**

**DP8-I**
- 2 longitudinal perforation units with 2 longitudinal perforation tools and Web Inspection WI8
- Cross perforation 1 unit for 2-up production

**DP8-II**
- 1 longitudinal perforation unit with 4 longitudinal perforation tools and Web Inspection WI8
- Cross perforation 2 units for 2-up production

**DP8-I**
- 2nd longitudinal perforation unit with max. 8 longitudinal perforation tools and WI8
- Cross perforation 2 units for 2-up production

**DP8-II**
- 2nd longitudinal perforation unit with 2 longitudinal perforation tools and Web Inspection WI8
- Cross perforation 1 unit for 2-up production

**DP8-I-P**
- 1 longitudinal perforation unit with 2 longitudinal perforation tools and Web Inspection WI8
- Cross perforation 1 unit for 2-up production (up to 4 die-cutting tools)

**DP8-I-P**
- 2nd longitudinal perforation unit with max. 8 longitudinal perforation tools and WI8
- Cross perforation 1 unit for 2-up production (up to 4 die-cutting tools)
Mailing production with web folder

Production of direct mail and a selfmailer from pre-printed roll to folded end-product at a web speed of up to 180 meters per minute. Mail pieces are dynamically perforated in both lateral and longitudinal direction using a DP8 dynamic perforator with optional punching. The paper web is linear fold, registered superimposed in a WF8 web folder. A CS8 cutting module performs cross-web chip-out before the sheets are presented in-line to the folding machine. The compact new W18 web inspection system employs state-of-the-art CIS technology (compact image sensor) for quality monitoring (color, register, codings, variable data, etc.) while production is in progress. The new Hunkeler Workflow Manager makes job setup, operation and monitoring of the production line centralized and convenient. Production line with modules from the latest Gen8.

<table>
<thead>
<tr>
<th>Technical Data*</th>
<th>Roll to Sheet Solution Gen8 with WF8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. roll diameter:</td>
<td>54&quot;</td>
</tr>
<tr>
<td>Web width:</td>
<td>10&quot; – 20.5&quot;</td>
</tr>
<tr>
<td>Production speed:</td>
<td>up to 590 ft/min</td>
</tr>
<tr>
<td>Paper weights:</td>
<td>60 – 160 gsm</td>
</tr>
<tr>
<td>Final format length:*</td>
<td>5.5&quot; – 62&quot;</td>
</tr>
<tr>
<td>Variable chip-out:</td>
<td>¼&quot; – 1&quot;</td>
</tr>
</tbody>
</table>

*with chip-out
Roll to Stack Solution with Coater

The PC7 primer coater module brings new value to printed documents by making sheets more inkjet receptive or adding post-press gloss. This innovative solution is designed for pre-print treatment of the paper application (priming) and varnishing (coating). Depending on the intended use, the PC7 is integrated either before or after the digital printing process. Offline configurations are also possible. In coating applications, the PC7 module can be used for the full-surface coating of the paper web with a water-based coating agent following the printing process. The web can be coated on one or both sides (simplex/duplex, depending on the application). Change-over is completed by the operator. The cleaning is done automatically (water).

Premium quality direct mail production with the latest generation of machines

Producing first-class, four-color printed mailings even on coated paper from the roll to the cut and folded end-product. Dynamic punching, vertical and cross perforation is performed in the DP8-II-P punching and perforation module. The double cross-cutting cylinder in the CS8 cutting module produces full-bleed documents. The cross-cutting cylinder in the CS8 can be equipped either with two knives for variable chip-out, or with one cutting knife and one perforating blade to produce dynamic folding perforations.

The integrated WI8 Web Inspection System based on the latest high-speed CIS technology for high-end quality and integrity control.

Technical Data* | Roll to Stack with Coater PC7
Max. roll diameter: 54" 1370 mm
Web width: 8" – 20.5" 203 – 520 mm
Production speed: up to 500 ft/min up to 150 m/min
Paper weights: 40 – 300 gsm 27 lb offset/book – 110 lb cover
Applied quantity: 0.5 – 4.5 gsm
Coating agent: Water based
Stack height: 10" 254 mm
Variable chip-out: 1/4" – 2” 6.35 – 50 mm

Options: Tank for washing water or direct connection for freshwater supply
Tank for drain water or connection for external tank, Dyna-Cut

Technical Data* | Roll to Sheet, Direct Mail CS8
Max. roll diameter: 54" 1370 mm
Web width: 8" – 20.5" 203 – 520 mm
Production speed: up to 600 ft/min up to 180 m/min
Paper weights: 60 – 160 gsm 16 – 40 lb bond
Final format length:* 5.5” – 62” 140 – 1575 mm
Variable chip-out: 1/4” – 2” 6.3 – 50 mm

* with chip-out

Offset Separator
Length- and Cross Cutter CS8
Stacker LS8
Unwinder UW6
Coater PC7
Dynamic Perforator/ Puncher DP8
Web Inspection W18
Buckle Folder

300 gsm post cards
Coated products
Vertical and cross perforations
Folded mailing
Roll to Roll – Non-stop Solution
Roll-to-roll high performance production. On-the-fly roll change on the new RS8 Roll Splicer and new TR8 Turret Rewinder. Designed for web speeds of up to 243 m/min. Non-stop roll change in a wide variety of paper weights ranging from 50 to 300 gsm. Increase in productivity of up to 30 percent compared to manual roll change, depending on print speed and roll length. Non-stop feature and paper waste depending on printer model.

Technical Data* | Roll to Roll Non-Stop Solution
Max. roll diameter: 50” 1270 mm
Roll weight max.: 2000 lbs 907 Kg
Web width: 11” – 22” 279 – 558 mm
Production speed: up to 800 ft/min up to 243 m/min
Paper weights: 50 – 300 gsm 34 lb offset/book – 110 lb cover

Non-Stop Roll Splicer RS8
Non-Stop Turret Rewinder TR8
Printing System

Photobooks
Hard- and Softcover
Manuals

Books

Premium photo book
Soft cover book
Hard cover book
Up to 4-up book production
Loose Leaf Book Block Production with Roll to Stack Line

The modular Hunkeler roll to stack solution for stacked sheet output with continuous feed digital printing systems. Innovative non-stop stacker with rotary single cut sheeter or variable chip-out double cutter for full bleed products. For example, cleanly offset-stacked sheets can be output for further downstream processing, such as perfect binding. Loose sheet offset stacks from 1-up to 4-up production.

Flyfolder Book Solution

Sheets are folded into signatures by the Flyfolder. Automatic change-over between 4-page and 6-page signatures is achieved on-the-fly, avoiding any interruption in the printing process. The fully automated format change-over is done on the fly, without manual intervention or interruption of the production process.

- Length perforation (single or double)
- Book blocks can be glued for easier handling
- Folding pattern (4 or 6 pages)
- Sheet length (7” to 14”)

Technical Data* | Loose Leaf Book Block Production

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. roll diameter</td>
<td>54”</td>
<td>1370 mm</td>
</tr>
<tr>
<td>Web width</td>
<td>8” – 22”</td>
<td>200 – 560 mm</td>
</tr>
<tr>
<td>Production speed</td>
<td>up to 590 ft/min</td>
<td>up to 180 m/min</td>
</tr>
<tr>
<td>Paper weights</td>
<td>40 – 300 gsm</td>
<td>27 lb offset/book – 110 lb cover</td>
</tr>
<tr>
<td>Stack height</td>
<td>up to 10”</td>
<td>up to 254 mm</td>
</tr>
<tr>
<td>Format length</td>
<td>5” – 19”</td>
<td>127 – 482 mm</td>
</tr>
<tr>
<td>Variable chip-out</td>
<td>1/4” – 2”</td>
<td>6.3 – 50 mm</td>
</tr>
<tr>
<td>Applications</td>
<td>1up – 4up</td>
<td></td>
</tr>
</tbody>
</table>

Options: Autoregister, Dyna-Cut, Tracking

Technical Data* | Flyfolder Book Solution

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. roll diameter</td>
<td>54”</td>
<td>1370 mm</td>
</tr>
<tr>
<td>Web width</td>
<td>17” – 19.5”</td>
<td>431 – 495 mm</td>
</tr>
<tr>
<td>Production speed</td>
<td>up to 420 ft/min</td>
<td>up to 128 m/min</td>
</tr>
<tr>
<td>Paper weights</td>
<td>60 – 120 gsm</td>
<td>40 – 80 lb offset/book</td>
</tr>
<tr>
<td>Cut length</td>
<td>7” – 14”</td>
<td>178 – 356 mm</td>
</tr>
<tr>
<td>Performance</td>
<td>up to 600 stacks per hour</td>
<td></td>
</tr>
</tbody>
</table>

Options: Front/Back Verification, Book block gluing

Sample Workflow:
3-up production
Production of high-quality softcover and hardcover books

In-line premium quality book production from the printed roll. Paper is web-fed using an UW6 unwinder and on a new «Generation 8» CS8-L cutter. The Universe Web performs several processes on-the-fly: scoring, folding, collation of folded sheets in 8-, 12-, 16-pages or more to create the signature and sewing. Downstream the Inline, multifunctional back gluer performs the hard cover preparation with the application of end-sheets and gauze, with dynamic adaptation according to the book thickness, or paperback production with the application of the softcover. The line is completed by the three-knife trimmer, trimming, that features automatic size change without changing parts.

Technical Data* | Book Solution (thread sewing)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. roll diameter:</td>
<td>54” 1370 mm</td>
</tr>
<tr>
<td>Web width:</td>
<td>8” – 22” 200 – 560 mm</td>
</tr>
<tr>
<td>Format length:**</td>
<td>5.9” – 16.5” 150 – 420 mm</td>
</tr>
<tr>
<td>Paper weights:</td>
<td>40 – 200 g/m² 27 lb offset/book – 74 lb cover</td>
</tr>
<tr>
<td>Production speed:**</td>
<td>436 ft/min 133 m/min</td>
</tr>
</tbody>
</table>

** Depends on book thickness/page count per book
High-performance Book Block Solution with Star Wheel Delivery

The modular book solution for the production of glued book blocks inline or offline for continuous digital printing systems up to a paper web width of 30". Processing of 4, 6 or 8-page signatures with quick setups and format changes. The high-performance cross cutter CS6-HS and the new double star-wheel delivery SD7-II guarantee non-stop production at 200 m/min (656 fpm) with over 450 output cycles per hour. In one stacking cycle, several book blocks are delivered. The system is characterized by modularity and flexibility coupled with simple and safe handling for further processing thanks to integrated book block gluing and perfectly flat book stacking. The book-on-demand line can be used as a flexible near-line solution or as an inline system and is designed for the low to medium volume segment.

### Technical Data

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>Book Block Solution with SD7-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. roll diameter</td>
<td>54&quot;</td>
</tr>
<tr>
<td>Web width</td>
<td>up to 30&quot;</td>
</tr>
<tr>
<td>Production speed</td>
<td>up to 656 ft/min</td>
</tr>
<tr>
<td>Paper weights</td>
<td>60 – 150 gsm</td>
</tr>
<tr>
<td>Folds</td>
<td>1 to 2 plow folds (2 to 4 layers)</td>
</tr>
<tr>
<td>Format length</td>
<td>7” – 14”</td>
</tr>
<tr>
<td>Book block thickness</td>
<td>up to 2”</td>
</tr>
<tr>
<td>Stack height</td>
<td>up to 4 7/8”</td>
</tr>
<tr>
<td>Productivity</td>
<td>up to 450 delivery cycles per hour:</td>
</tr>
<tr>
<td>- for format 6x9&quot;</td>
<td>up to 4100 book blocks with 96 pages</td>
</tr>
<tr>
<td>- for format DINAS</td>
<td>up to 4500 book blocks with 96 pages</td>
</tr>
<tr>
<td>- for format DIN A4</td>
<td>up to 2400 book blocks with 96 pages</td>
</tr>
</tbody>
</table>

Options: Dyna-Cut

### Inline Solution with Perfect Binder:

- Perfect Binding
- High Speed Cutter CS6-HS
- Star Wheel Delivery SD7-II
- Book Block Destacker
- Transport Belt

### Cart Solution

- High Performance Robot Solution
- Book Block Destacker
- Roll Splicer RS8
- Double Plow Folder PF7

### Output Solutions

- Possibilities:

### Sample Workflow:

Book blocks with 6-page signatures

- Stacking
- Cross cutting
- Gluing
- Folding
- Perforations
- Turning
Books on Demand, variable format sizes

The Hunkeler book block solution is distinguished by high flexibility, fast and easy changeover, and excellent book block quality. Books are produced on demand in variable format sizes, thanks to fully automatic longitudinal format changeover, a high-performance trimming module and a unique star wheel delivery system. The PF7 double plow folder processes paper webs up to 30 inches web width into 4-, 6- or 8-page signatures.

<table>
<thead>
<tr>
<th>Signature folding types:</th>
<th>Number of pages</th>
<th>Signature width</th>
<th>Max. paper weight</th>
<th>Stack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parallel fold</td>
<td>4</td>
<td>5 – 10.5”</td>
<td>150 gsm</td>
<td>1-up</td>
</tr>
<tr>
<td>Roll fold</td>
<td>6</td>
<td>5 – 10”</td>
<td>100 gsm</td>
<td>1-up</td>
</tr>
<tr>
<td>Double parallel fold</td>
<td>8</td>
<td>5 – 7.5”</td>
<td>80 gsm</td>
<td>1-up</td>
</tr>
<tr>
<td>Loose leaf</td>
<td>4</td>
<td>5 – 17.5”</td>
<td>100 gsm</td>
<td>1-up</td>
</tr>
</tbody>
</table>

The PF7 will also glue «budget bound» brochures and books, a low-cost approach for short shelf-life products.
Perfect-bound books without milling
Budget Binding
Loose leaf book stacks
Front/Back print verification
Brochures

High Performance Booklet Production

Full-color personalized brochures with a variable number of pages. The solution for high speed production of examination brochures, leaflets, manuals, direct mailers, and other saddle-stitched products from a roll. Optionally the line can be equipped with the dynamic and vertical perforator DP8, and cover and sheet inserting. Process includes the paper web feeding from the Unwinder UW6, cross cutting in the CS8 and gathering, folding, stitching and trimming in a saddle-stitching system.

Technical Data* | UW6 - CS8 Booklet Production Line

<table>
<thead>
<tr>
<th>Specification</th>
<th>UW6</th>
<th>CS8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. roll diameter</td>
<td>54&quot;</td>
<td>1370 mm</td>
</tr>
<tr>
<td>Web width</td>
<td>11” – 19.6”</td>
<td>279.4 – 500 mm</td>
</tr>
<tr>
<td>Cut length</td>
<td>8.3 – 13.7”</td>
<td>210 – 350 mm</td>
</tr>
<tr>
<td>Production speed</td>
<td>up to 600 ft/min</td>
<td>up to 180 m/min</td>
</tr>
<tr>
<td>Paper weights</td>
<td>52 – 210 gsm</td>
<td>35 – 120 lb offset/book</td>
</tr>
<tr>
<td>Productivity</td>
<td>up to 6000 booklets per hour, format A4, 24 pages</td>
<td></td>
</tr>
</tbody>
</table>

Options: Cover and Sheet inserting unit, Dynamic vertical and cross perforator DP8, Dyna-Cut

Unwinder UW6

High Speed Cutter CS8

Trimmer

Horizon Stitchliner
Booklets and Books Combi-Solution

With this combined solution it becomes possible to produce saddle-stitched as well as perfect bound books and products. The centerpiece of this digital production line are the CS8 Cross Cutter and the Bypass unit. The paper web is cut into single sheets by Hunkeler's precision rotary cutting system. The Bypass unit allows quick and easy diverting of the output to the inline saddle-stitching system or to the conveyor belt for stacked book blocks (e.g. for transfer to a near line perfect binder).

Technical Data* | Combi-Solution Books and Booklets

| Max. roll diameter: | 54" | 1370 mm |
| Web width:         | 8" – 22" | 203 – 558 mm |
| Production speed:  | up to 500 ft/min | up to 150 m/min |
| Paper weights:     | 40 – 300 gsm | 27 offset/book – 110 lb cover |
| Format length:     | 5" – 14" | 127 – 482 mm |
| Stack height:      | 10" | 254 mm |

Options: Cross cut with chip-out, Dynamic vertical and cross perforator DP8, Dyna-Cut

Glued Booklet and Book Solution

The high performance Hunkeler brochure solution for the production of variable on demand booklets offline or inline with continuous feed digital printing systems. Dynamic glue applications enables flexible production of variable booklets with 6-, 12-, 18-, 24-, pages or 8-, 12-, 16-, 20-, 24-, pages. Loose sheet stacks in DIN A3+ format for thread-stitched products or glued book blocks can also be produced as an alternative to the booklets (budget binding).

Technical Data* | Budget Binding Solution with SD7-II

| Max. roll diameter: | 54" | 1370 mm |
| Web width:          | up to 30" | up to 762 mm |
| Format length:      | 7 – 14" | 178 – 356 mm |
| Production speed:   | up to 656 ft/min | up to 200 m/min |
| Paper weights:      | 60 – 150 gsm | 40 – 100 lb offset/book |
| Productivity:       | up to 6'400 booklets per hour, format A4, 24 pages |

Options: Dyna-Cut
Newspaper Broadsheet Solution
This pioneering response to current industry challenges addresses a number of different issues, including decreased newspaper circulation, reduced advertising volume, greater competition, and a need for increasingly timely and localized news. The innovative concept underlying this technology allows the geographically independent production of up-to-date newspapers, digitally printed in the well established broadsheet format. The Drum Collator DC7 collates the duplex printed sheets of variable size. The papers leave the collating module as an electrostatically-fixed stack into the Buckle Folder.

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>Newspaper Line, Broadsheet-Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>POPP6 (UW6-CS6-DC7)</td>
<td>POPP7 (UW7-CS7-DC7)</td>
</tr>
<tr>
<td>Max. roll diameter:</td>
<td>1370 mm (54”) 1370 mm (54”)</td>
</tr>
<tr>
<td>Web width:</td>
<td>11” – 20.5&quot; (279 – 520 mm) 11” – 26&quot; (279 – 660 mm)</td>
</tr>
<tr>
<td>Cut length:</td>
<td>up to 32.5&quot; (820 mm) up to 32.5&quot; (820 mm)</td>
</tr>
<tr>
<td>Paper weight:</td>
<td>40 – 120 gsm 25 – 74 lb newsprint</td>
</tr>
<tr>
<td>Speed:</td>
<td>up to 150 m/min up to 500 ft/min</td>
</tr>
<tr>
<td>Number of pages:</td>
<td>8 – 96 pages 24 pages, with printer speed 300 ft/min</td>
</tr>
<tr>
<td>Productivity sample:</td>
<td>1800 ex/h Broadsheet (cut length 24.8”)</td>
</tr>
</tbody>
</table>

Buckle Folder
Drum Collator DC7
Length- and Cross Cutter CS8
Unwinder UW6 | UW7
Newspaper Production

New production line for «newspaper on demand» in broadsheet and tabloid format. Production of broadsheet newspapers with multiple topic-specific sections in variable number of pages and tabloid newspapers up to 140 pages in 4 page steps. Available as an offline configuration or inline with digital printing systems. Fully automatic change-over from broadsheet to tabloid newspapers and automatic variable cutoff length for different newspapers. That allows the production of mixed newspaper stacks based on distribution routes including stack address labeling. The combination of flexibility and high automation allows the production of the smallest production batches of different newspapers ready to ship in the shortest time possible. No extensive mailroom is needed because the number of produced newspapers per hour can be handled and optionally bundled/packaged by the same line operator. Beside newspapers, the system is also capable to produce spine glued inserts, newspaper supplements or booklets and with that utilize the production capacity optimally in off-peak hours.

Technical Data* | Newspaper Solution FC7
--- | ---
Web width: | 11” – 26”
Format length: | up to 32.25” up to 820 mm
Paper weight: | 40 – 90 gsm 30 – 63 lb offset/book
Speed:* | up to 500 ft/min 150 m/min
Size of newspaper:
- Tabloid: 8 – 140 pages
- Broadsheet: 8 – 40 pages per section / max. 140 pages
- Glued Brochures:** 4 – 40 pages (glued in DC7)
Options: Gluing system in DC7, Dyna-Cut
Newspaper Stacker up on request
*Depending on paper and application **Without trimming

Processing features
- Fully automatic change between broadsheet and tabloid, i.e. between different format length within the same web width
- Production of tabloid newspapers with 8 to 140 pages
- Broadsheet with variable number of sections and pages
- Gluing system for the production of inserts and brochures

Productivity example 24 pages 150 m/min
- 1800 copies/h Broadsheet (format length 24.8”/630mm)
- 3500 copies/h Tabloid (format length 13”/330 mm, 2-in)

Function/advantages
- Shortest set up time / high productivity
- Variable production of titles with different contents
- Ideal distribution volume / production according to the distribution tour
- Extended production and differentiation possibilities
Security Features with Laser HL8

The HL8 is the ideal solution for high-security punching and perforating applications, for example, checks, coupons and mailings, roll-fed from the UW6 unwinding module. Production capacity up to 150 m/minute in 1-up or 2-up mode. Fully dynamic, customized punch and perforation patterns are possible by directly importing native CAD/CAM system data. The laser editor makes it even simpler and more efficient preparation and management of the laser pattern in production environments. The HL8 can process both a continuous paper web and paper sheets. The unique design even allows both possibilities to be processed in one module. This means that there are no limits to production flexibility.

**Laser Head 303 – 300W**

- HL8-I (1 x 300W Laser)
  Moveable laser head for free positioning over full paper web width

- HL8-II (2 x 300W Laser)
  Two moveable laser heads for free positioning over full paper web width.

**Laser Head 777 – 750W**

- HL8-I (1 x 750W Laser)
  Laser beam processing of full paper web width

- HL8-II (2 x 750W Laser)
  Dual laser beam processing of full paper web width
### Sheet to sheet solution | Technical Data* | HL8

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Production speed**:</td>
<td>up to 262 ft/min up to 80 m/min</td>
</tr>
<tr>
<td>Paper weights:</td>
<td>60 – 300 gsm 40 lb offset – 110 lb cover</td>
</tr>
<tr>
<td>Sheet format LxW:</td>
<td>11.7” x 8.3” 297 x 210 mm</td>
</tr>
<tr>
<td>Sheet format LxW:</td>
<td>30” x 19.7” 760 x 500 mm</td>
</tr>
<tr>
<td>Laser type:</td>
<td>CO2 laser</td>
</tr>
<tr>
<td>Options:</td>
<td>1 or 2 laser Heads</td>
</tr>
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### Roll to roll solution | Technical Data* | HL8

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<tr>
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### Roll – sheet and sheet – sheet solution | Technical Data*

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The right decision

With your decision to go for a Hunkeler production systems you already have taken the first important step a productive system with a high availability. The next step to secure reliability, high productivity and a long service life is to cover all your service needs. Combine the service products that best match your needs to secure your ability to perform and to achieve optimal availability.

Modular and individualized service

Service products that are tailored to suit customer needs and complement each other can be combined into an individualized service package, thereby ensuring outstanding availability at a great value – day after day.

Service products in all important phases

With our service products, you benefit from expert support in all phases. With the “huncustomer” range of services, you have a strong partner on your side.

Remote Assist

A “remote connection” makes it possible to give external Hunkeler experts secure access to your Hunkeler system. The remote connection enables rapid error analysis, troubleshooting, data backups or simple production support. The customer is fully integrated into the process at all times. In other words, access is controlled by the customer, who can terminate connection whenever desired. Today, Hunkeler Remote Assist identifies problems online and gives you assistance as if a technician was on site. No matter where your system is, our expert service team is always close at hand.

Hunkeler Remote Assist is a complete package of various online services.

Remote Assist
Immediate support

Maintenance Planner
Proactive planning

Knowledge Scout
Hunkeler know-how
24/7

Parts Catalogue
Reliable identification
Hunkeler Workflow Manager – HWM
Our software system for production planning and process optimization

With the Hunkeler Workflow Manager HWM, lines and locations are networked so that jobs can be produced optimally. The selected apps support the fast and easy creation of productions through a visual display of the print formats including register marks and 2D codes. Faster job and line set-up increases efficiency and flexible job assignment leads to greater product diversity.

Define your product – let the system do the math!

Production Set-up
- Automatic generated job data
- Graphic editor
- Definition of perforation and punching patterns
- JDF compliant workflow

Hunkeler Workflow Manager Apps

- Job (Definition)
- Line status
- Production
- Pattern (perforating/punching pattern editor)
- Assistance (Service functions)
- Tracking (App not available yet)
- Analytics (App not available yet)
- Impositioning (App not available yet)
Web Inspection System

A web inspection system checks the quality and content of the printed pages in terms of colors, positions, contours, smearing, jet-outs, etc. State-of-the-art digital contact image sensor technology scans the entire width of the paper web, creates high-resolution images of the printed image and compares these with the ‘golden sample’ to carry out many different kinds of quality and content checks. The system ensures consistently high print quality for a diverse range of applications.

Printing and content errors are identified at an early stage to trigger immediate action, reducing both downtime and paper waste.

WI8 Web Inspection System

The Hunkeler Control Platform represents a high-performance system for production monitoring and quality control. With the WI8 Web Inspection system you can check quality and content of the printing on each page in terms of colors, positions, contours, smearing, jet-outs, data validation, etc. It is always possible to update it with new functions and extend it to a complete tracking solution.

The basic equipment includes the CIS (Contact Image Sensor) scan-bar per side, a 22” wide multi-touch LCD operator monitor and the controller box.

Simplex and duplex colour variants

The system can be integrated as a simplex and duplex colour variant for the following devices and printers:

- Web Inspection WI8 with Dynamic Perforator/Puncher DP8

CIS Scan bars
- Duplex or Simplex
- Standard available width: 22"
- 14", 30", 42" available on request

Touchscreen for operation

Controller box

Web Inspection WI8 with printer integrated

Web Inspection WI8 as stand-alone solution
Optional software packages

For the extension of the system with additional functions

Record & Replay

1D, 2D and Postal codes verification

OCR and MICR codes verification

Labels verification

User Oriented Graphic controls

Full page image verification

Printer Oriented Graphic controls

Optional software packages

For the extension of the system with additional functions
Tracking Solution
The tracking system monitors ongoing production in terms of completeness and accuracy. The consistency of ongoing production is constantly compared with the target data and missing pages or duplicates are identified. Defective products can be automatically fed out of the production workflow and missing documents reprinted, thereby facilitating fully automatic operation and rendering manual controls superfluous. Standardized interfaces enable communication with superordinate systems (host computer) to take place and support monitoring across multiple lines and even multiple production sites.

Control & Tracking Solutions

Tracking

Line Controller

LOG

CONTROL FUNCTION

BASIC INTEGRITY CONTROL

TRACKING FUNCTION

PRODUCTION LOGGING

Control

4 ? 2 3

Check for missing pages, documents and jobs

4 2

Check for correct sequence (front-back verification)

IV 1

Check for duplicates/incorrect pages, documents, jobs

4 1 2

Check for correct print direction
Basic Integrity Control

- Page sequence control within the document
- Document sequence control within the job
- Document completeness control
- Front to back matching
- 1-up and/or optional 2-up production handling

Options: Stop the line, stack separation

Production Logging

- Simple logging of results from Basic Integrity Control
- Share logging with external system (File based)

Options: Stop the line, stack separation, dynamic rejects

Tracking Solutions

- Site Manager, tracking server with full tracking scope
  - Duplicates detection
  - Missing documents detection
  - Full production tracking
  - Production reporting
  - Reprints generation

- Single Line Tracking
  - Line Controller with integrated Site Manager

- Multi Line Tracking
  - Line Controller
  - Web Inspection
  - Site Manager

Control Functions

Check for correct enclosures, covers etc.
Production Logging
Document error reject
Flawless end products ready for shipment
Pharma package leaflets from roll

Pharma package leaflets production with the Generation 8.
Production from the roll to the finished pharma package leaflets. Different sheet formats in multiple printed panels up to 30 inch format length.

- Up to 22 inch (560 mm) wide paper rolls
- Flexible production with sheet stacking or folding
- Lightweight paper processing up to 40 gsm
- Efficient stacking solution, with offset stacking option
- Automated sheet length setup (Dyna-cut)
- Chip-out option (e.g. removing «flush lines»)
- Speed up to 180 m/min (590 fpm)
- Inline or offline with digital printer
**Bingo solution**
Specialty solution for customized bingo card booklets collated and glued together in the Hunkeler drum collator. A great example of the power of digital printing with individual coupons and advertisements.

**Coating solution**
The PC7 primer coater module undoubtedly gives inkjet technology a new and interesting alternative to established printing processes. This innovative solution is designed for protective coating.

**Banding solution**
Integration of economical banding solutions to hold cut sheet stacks or folded products together for further finishing or logistics reasons. A great example of Hunkeler engineering.

**Long sheet delivery with jogger table**
Jogger tables offer a very cost-effective entry level solution for the occasional yet reliable production of large format sheets.

**Pile Stacker solution with PST-52**
Flexible additional device for stacking long sheets up to 1.000 mm, up to 300 gsm paper, and up to 600 mm stack height or 300 kg stack weight.

**Pharma application: UW6-CS8-Folder**
Roll to folded leaflet production lines with Hunkeler unwinder and cross cutter combine ease of use and reliable lightweight paper processing at high speeds. Almost any type of folder can be integrated into the line.

**HKU Waste evacuation systems**
Different Hunkeler waste evacuation solutions by Hunkeler Systeme AG. Portfolio for varying applications and waste volumes all equipped with dust filter and low noise emissions.

**Remote Assist**
A "remote connection" allows the external Hunkeler support person safe access to the line. Remote Assist enables faster error analysis, troubleshooting, data backup or production support to maximize availability.
Reaching the summit together

Digital: developed to meet specific needs: Solutions from Hunkeler for pre- and post-digital printing are available for almost any imaginable application. Publishing applications for small to medium runs, computer centers, transactional and transpromo, security printing or creative direct mailing: we have high quality solutions for all of these applications. A small sample of the larger range of our potential end products are shown in this brochure.

Validated with all major printing presses.

*All solutions and technical data subject to change. Performance depends on running configuration, application, and substrates (paper). Technical data will change with different running configurations like bypassing a module, different non Hunkeler post-finishing solutions, etc.

North American Distributor:

Standard Finishing Systems
10 Connector Road, Andover, MA 01810
Phone: 877-404-4460
www.standardfinishing.com