



Excellence in Paper Processing

Digital Print Finishing



huncolor
ready 

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 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 presser manufacturers. Centrally controlled, these systems guarantee the highest productivity, flexibility and process reliability.

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.

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 after-sales service – guarantee the highest equipment availability. With comprehensive service and operating documentation to assure professional attention and the highest possible machine productivity.

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.



Global distribution network



Worldwide service support



Modular equipment



Security

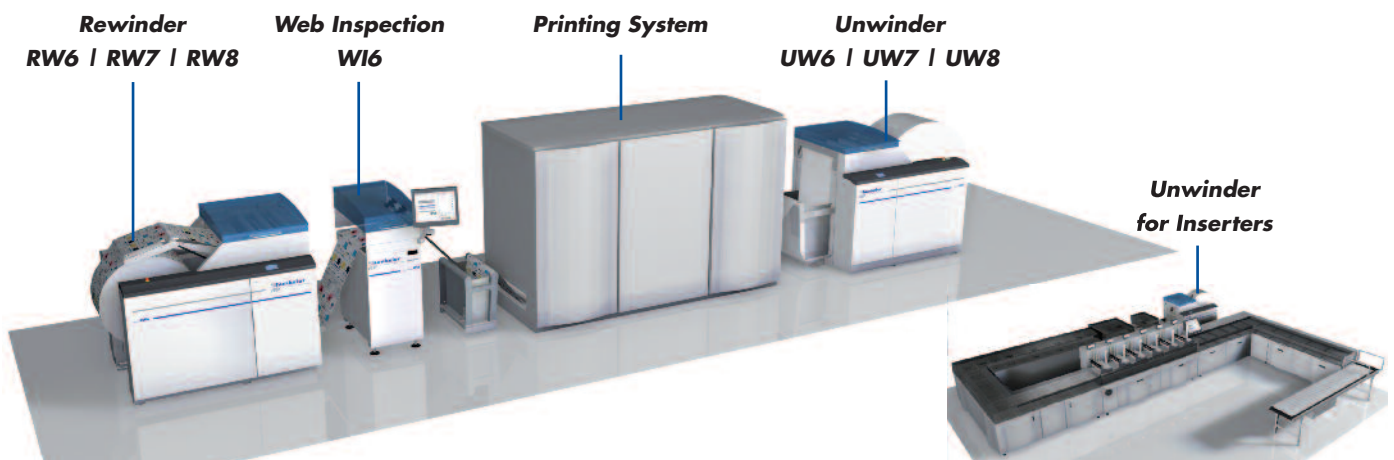


Transactional

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			
	POPP6 (UW6-RW6)	POPP7 (UW7-RW7)	POPP8-Wide (UW8-RW8)
Max. roll diameter:	54" (1370 mm)	54" (1370 mm)	54" (1370 mm)
Web width:	6.5" – 20.5"	6.5" – 30"	8" – 30"
Production speed:	up to 220 m/min up to 720 ft/min	up to 220 m/min up to 720 ft/min	up to 305 m/min up to 1000 ft/min
Paper weights:	40 – 180** gsm	40 – 300 gsm	40 – 350 gsm
Roll weight max.:	800 Kg (1760 lbs)	800 Kg (1760 lbs)	1500 Kg (3360 lbs)
Options:			
**Heavy paper kit:	40 – 300 gsm		
	Decurler Slitter	Web Guide	Decurler, Slitter Web Guide



Roll production with center cut



Quality control with WI6



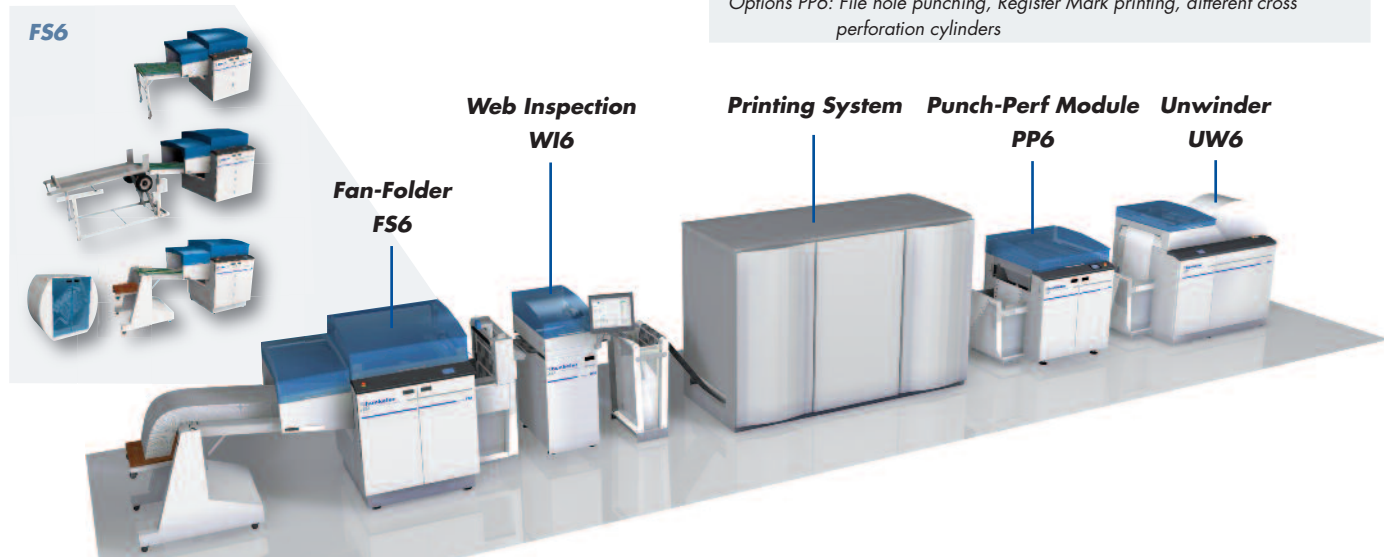
Loose leaf stacks with CS6, LS6



Hole punching with PP6

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 FS6: Shingle Belt Delivery, Stack Cart System, High Capacity Stacker, Stack Turning

Options PP6: File hole punching, Register Mark printing, different cross perforation cylinders

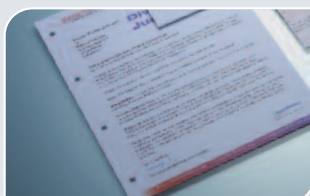
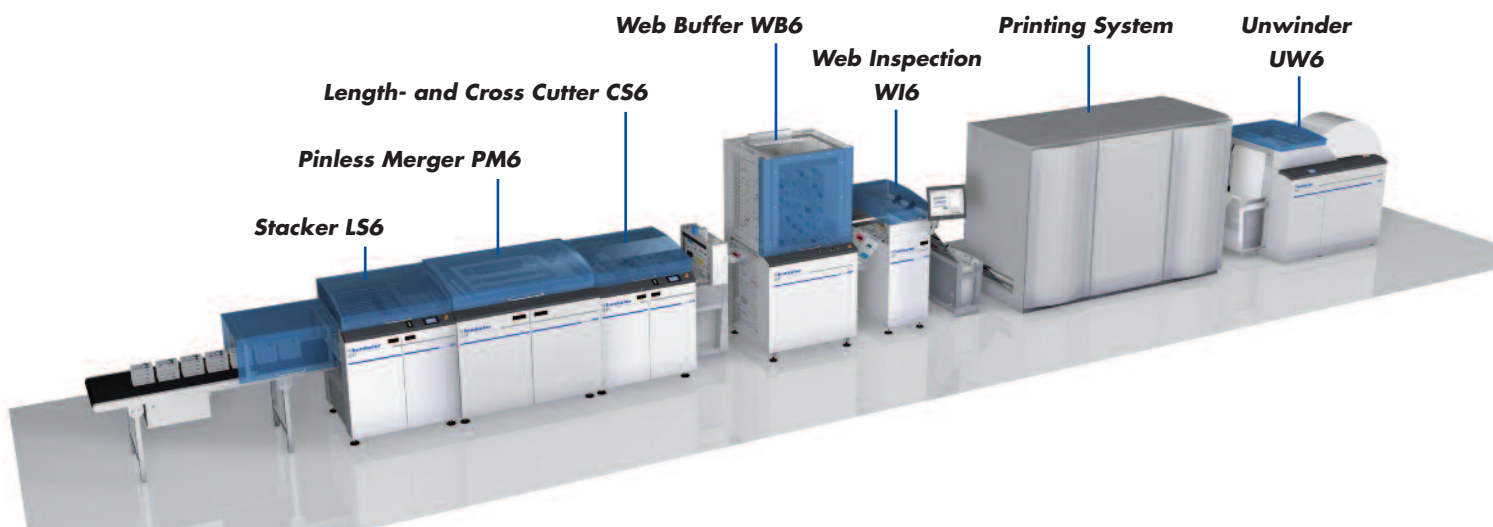
Roll to Stack Solution

Data center solution for 1-up / 2-up output. Roll-to-stack solution with pinless merger module PM6 for merging loose sheets. Following the longitudinal and cross cutting in the CS6 cutter, jobs with odd numbers of sheets are merged using the optional offset-on-the-fly function integrated in the PM6. Stack delivery from the LS6 for non-stop operation at a constant speed. Inline quality assurance with the WI6 Web Inspection System.

Technical Data* | Roll to Stack

Max. roll diameter:	54"	1370 mm
Web width:	16" – 18 1/3"	406 – 465 mm
Cut length:	8 – 14"	203 – 355 mm
Production speed:	up to 426 ft/min	up to 128 m/min
Paper weights:	70 – 120 gsm	18 – 32 lb bond
Stack height:	9 7/8"	250 mm
Variable chip-out:	1/8" – 2 3/4"	3.2 – 70 mm
Applications:	1-up – 2-up	

Options: Single sheet merger, Transfer station, Cross cut with chip-out, Gutter cut, Large stack delivery 28", Web Inspection, Web Merger



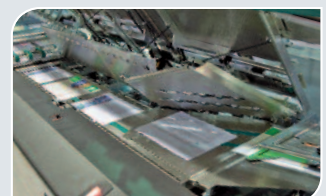
File holes with PP6, DP6



Fan-folded stacks with FS6



Web merging with WM6



Sheet merging with PM6

Transpromotional

Roll to Stack Solution with dynamic perforation/punch and web merger

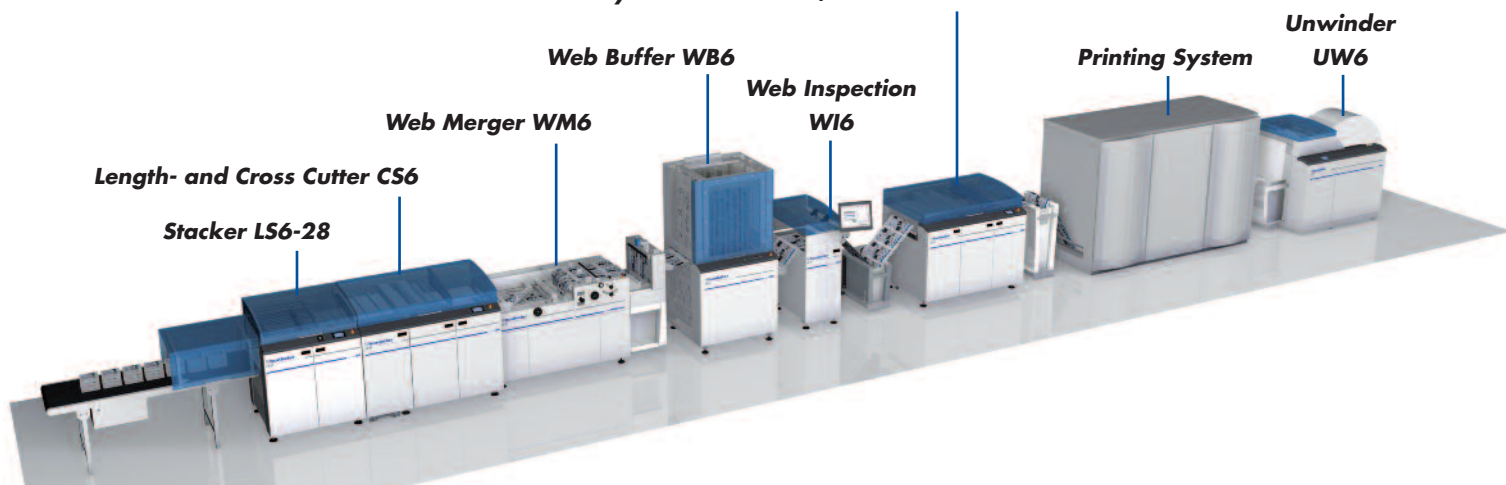
The DP6 dynamic perforation module is the first solution that combines perforation in the vertical and cross directions along with punching – all in one unit. “Dynamic” means the ability to change the punching, perforating or hole pattern from sheet to sheet. It is particularly interesting for transpromotional 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 DP6 – WM6 – LS6-28

Max. roll diameter:	54"	1370 mm
Web width:	13" – 20.5"	330 – 520 mm
Production speed:	up to 433 ft/min	up to 130 m/min
Paper weights:	60 – 120 gsm	16 – 32 lb bond
Stack height:	4" – 10"	100 – 250 mm
Variable chip-out:	1/4" – 1"	6 – 26 mm
Format length:	5.5" – 28"	140 – 711 mm
File hole punching:	2-, 3-, 4 hole pattern	Ø 5,5 – 8 mm

Options: Stacker LS6, Offset separator SE6, Gutter cut, Transfer Station TS6

Dynamic Perforator/Puncher DP6



Vertical and cross perforations



Full bleed products with CS6-II



Quality control with WI6



Web merging with WM6

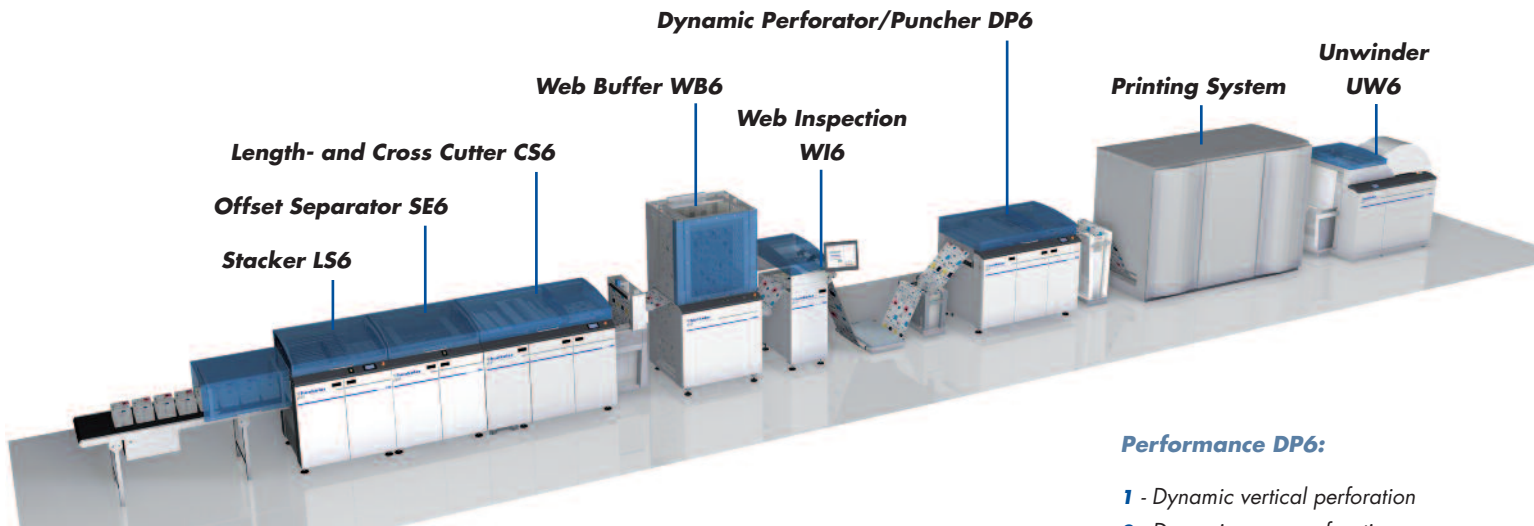
Roll to Stack Solution with dynamic perforation/punch

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 functions is possible in a single module (dynamic perforation in the vertical and cross direction, and dynamic file hole punching).

Technical Data* | Roll to Stack with DP6

Max. roll diameter:	54"	1370 mm
Web width:	6.5" – 20.5"	165 – 520 mm
Production speed:	up to 500 ft/min	up to 150 m/min
Paper weights:	60 – 160 gsm	16 – 40 lb bond
Stack height:	9 ⁷ / ₈ "	250 mm
Variable chip-out:	3 ¹ / ₁₆ " – 2 3 ³ / ₄ "	4.8 – 70 mm
Format length:	5.5" – 19"	140 – 482 mm
File hole punching:	2-, 3-, 4 hole pattern	Ø 5,5 – 8 mm

Options: Large sheet delivery LS6-28"



Performance DP6:

- 1 - Dynamic vertical perforation
- 2 - Dynamic cross perforation
- 3 - Dynamic file hole punching

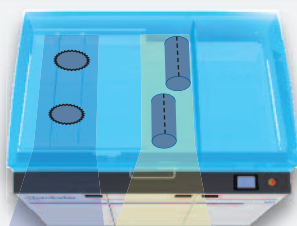
DP6 Workflow Sample (2-up production)



Integrated solution for transactional and transpromotional in 2-Up mode, from the unprinted roll to the finished product. This White Paper Solution eliminates pre-converting and pre-printing rolls by using digital color print on ordinary mill rolls. Subsequent integrated, dynamic vertical / cross perforation and file hole punching in the dynamic perforating / punching module DP6. Individual and unique perforation patterns for transpromotional products such as coupons, payment slips and response mailers controlled by the unique PerfEditor.

Dynamic Perforation and Punch Module DP6 – four different configurations are possible

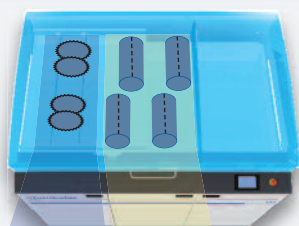
DP6-I (Standard Perforator)



Vertical Perforation
2x Tools
(up to 8 tools)

Cross Perforation
1x Unit
for 2-up production

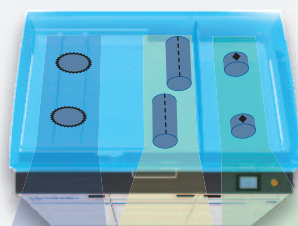
DP6-II (Perforation Pro)



Vertical Perforation
4x Tools
(up to 8 tools)

Cross Perforation
2x Units
for 2-up production

DP6-A (Allrounder)

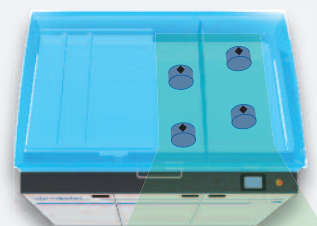


Vertical Perforation
2x Tools
(up to 8 tools)

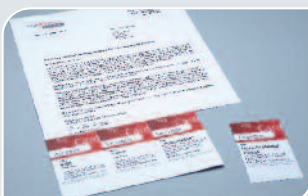
Cross Perforation
1x Unit
for 2-up production

Die cut
1x Unit
for 2-up production

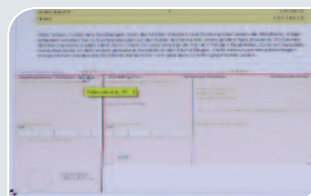
DP6-PP (Punch Pro)



Die cut
2x Units for 2-up production
(up to 8 punching tools)



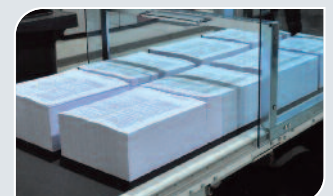
Coupon with safety features



PerfEditor: easy job setup



Perforating and Punching



Efficient 2-up production



Direct Mail

Roll to Sheet Solution with Folder/Merger

The modular Hunkeler roll to stack solution for sheeted stack output with continuous feed digital printing systems. Innovative variable chip-out, rotary double cutter for full bleed products in the Transpromotional and Direct Mail markets. The line can be expanded with combined plow fold and merge functions on the FM6 folder merger to create a universal high speed mailing system.

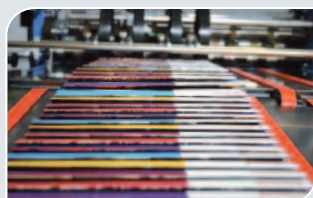
Technical Data* | Roll to Sheet with Folder/Merger FM6

Max. roll diameter:	54"	1370 mm
Web width:	13" – 20.5"	330 – 520 mm
Production speed:	up to 500 ft/min	up to 150 m/min
Paper weights:	60 – 120 gsm	16 – 32 lb bond
Variable chip-out:	1/4" – 1"	6.3 – 25.4 mm

Options: Cross cut with chip-out, Gutter cut, Stacker LS6, Tear-off perforation after folding



Full bleed products with CS6-II



Efficient direct mail production



Cross folded direct mailers



Plow-fold or slit-merge function

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 primer application (pre-coating) and varnishing (top-coating). Depending on the intended use, the PC7 is integrated either before or after the digital printing process. Offline configurations are also possible.

In top-coating applications, the PC7 module can be used for the full-surface varnishing of the paper web with a water based coating agent following the printing process. The web can be top-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).

Length- and Cross Cutter CS6

Offset Separator SE6

Stacker LS6

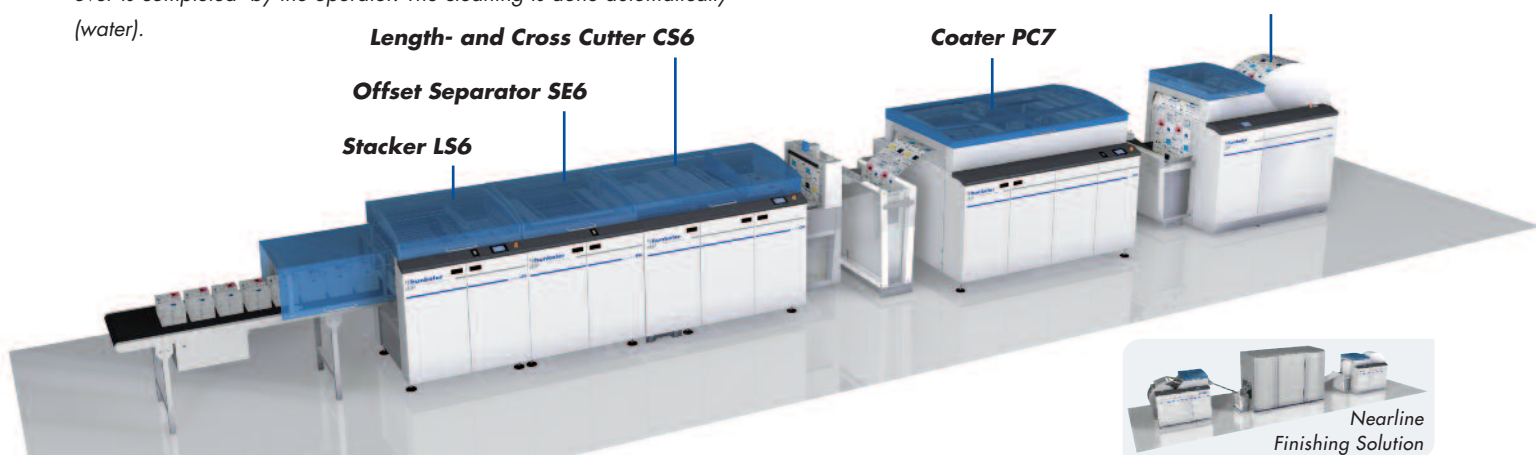
Coater PC7

Unwinder UW6

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:	9 7/8"	250 mm
Variable chip-out:	3/16" – 2 3/4"	4.8 – 70 mm
Applications:	1 up – 2 up	

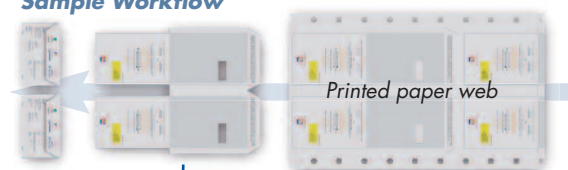
Options: Tank for washing water or direct connection for freshwater supply
Tank for drain water or connection for external tank



Roll to Sheet Solution with Universal Module

Working from a roll with the possibility of having almost no limitations in product design, with the high productivity of web finishing, is leading to clear advantages compared with single sheet processing. Combining the processes of die cutting, perforating, and cross cutting with variable cut-out in a single module provides unparalleled flexibility in product design and cost-effective production.

Sample Workflow



Performance UM:

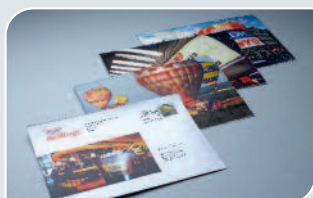
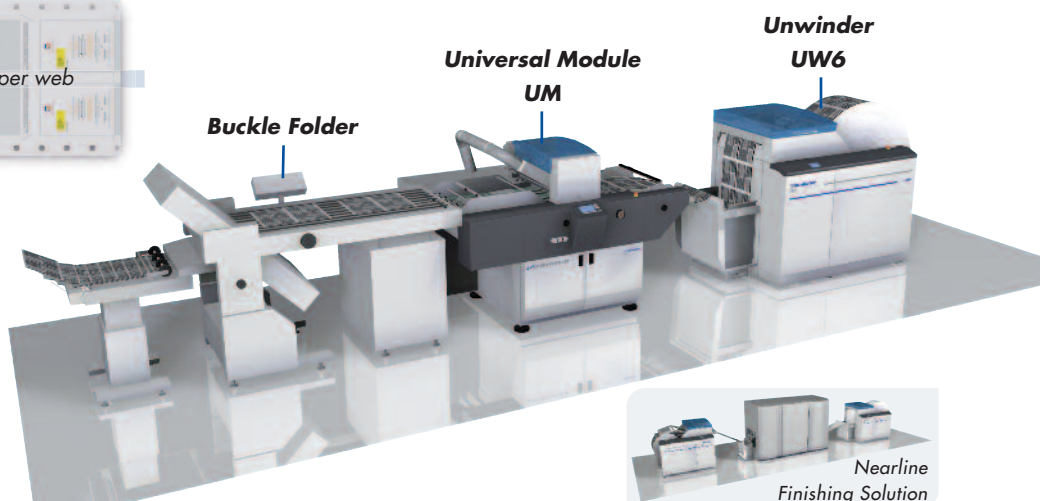
Closed Mailer

Shape die cut
Window die cut
Perforations
Cross cut with variable cut-out

Technical Data* | Roll to Sheet with Universal Module

Max. roll diameter:	54"	1370 mm
Web width:	6" – 20.5"	150 – 520 mm
Production speed:	up to 500 ft/min	up to 150 m/min
Paper weights:	60 – 160 gsm	16 – 40 lb bond
Final format length:	4" – 34"	101 – 863 mm
Variable cut-out:	1/4" – 2"	6.3 – 50 mm

Options: Gluing Module GM, Application Module AM



300 gsm post cards



Coated products



Form- and die cut in one step



Innovative endproduct design

Books

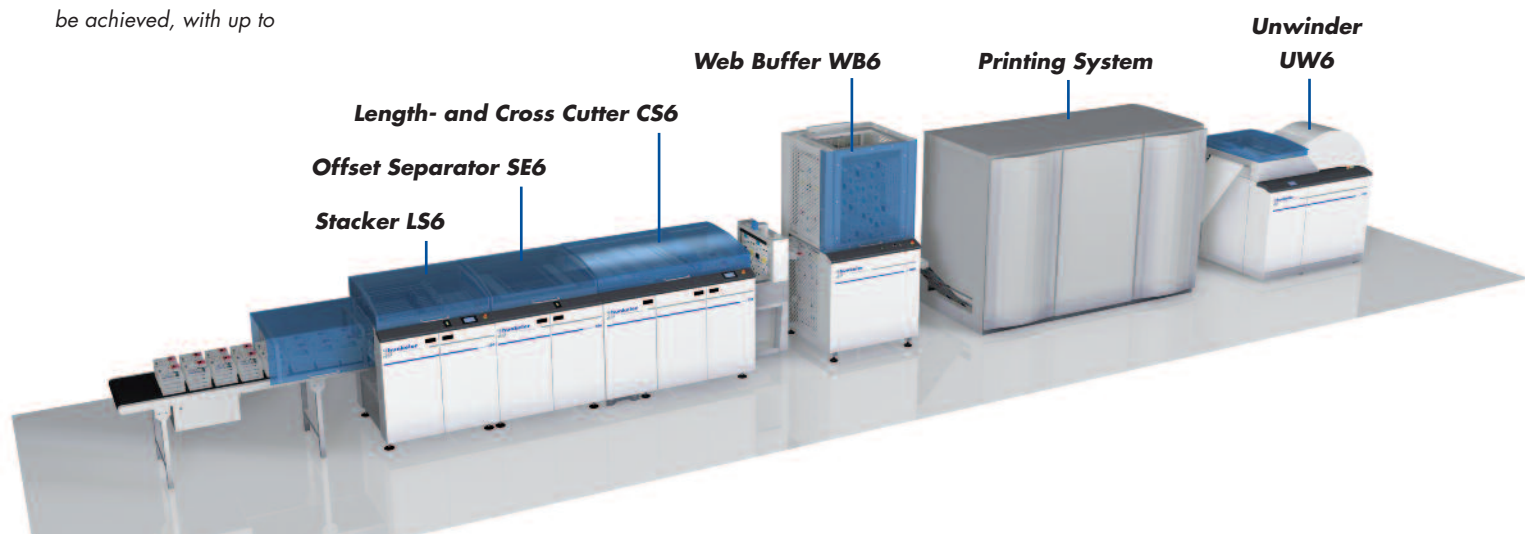
Loose leaf book block production with Roll to Stack line

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. When connected with the Transfer Station TS6 In-line finishing can be achieved, with up to

Technical Data* | Loose Leaf Book Block Production

Max. roll diameter:	54"	1370 mm
Web width:	6.5" – 20.5"	165 – 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
Stack height:	up to 9 7/8"	up to 250 mm
Format length:	5.5" – 19"	140 – 482 mm
Variable chip-out:	3/16" – 2 3/4"	4.8 – 70 mm
Applications:	1up – 4up	

Options: Front/Back Verification, Transfer Station TS6, Dyna-cut, Autoregister



Premium photo book



Soft cover book



Hard cover book



Up to 4-up book production

Roll to Sheet – Book Signature Solution

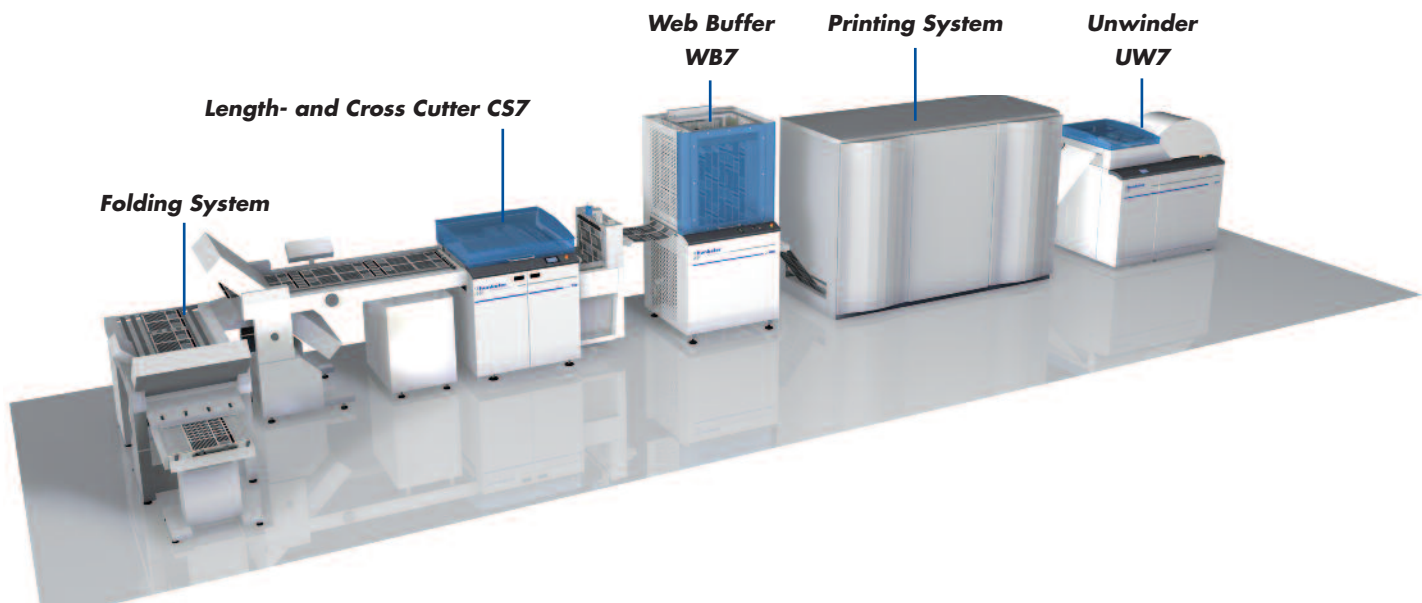
Wide web roll to cut solution with integrated buckle folding systems allows different folding processes for a variety of stacked and folded signatures that are suitable for perfect binding or thread stitching. Large format sheet stacking with the Large Format Sheet Stacker LS7 is also possible, for nearline folding and finishing workflows.

Technical Data* | Roll to Sheet, Book Signature Solution

Max. roll diameter:	54"	1370 mm
Web width:	6.5" – 26"	165 – 660 mm
Production speed:	up to 600 ft/min	up to 180 m/min
Paper weights:	40 – *300 gsm	27 lb offset/book – *110 lb cover
Cut length:	5.5" – 62"	140 – 1575 mm

Options: Large format sheet stacker LS7

*(or max. folder capacity)



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 excellent stack quality allows for efficient finishing, especially when connected inline with a perfect binder. All signatures can be offset on-the-fly while running through the Flyfolder module (option).

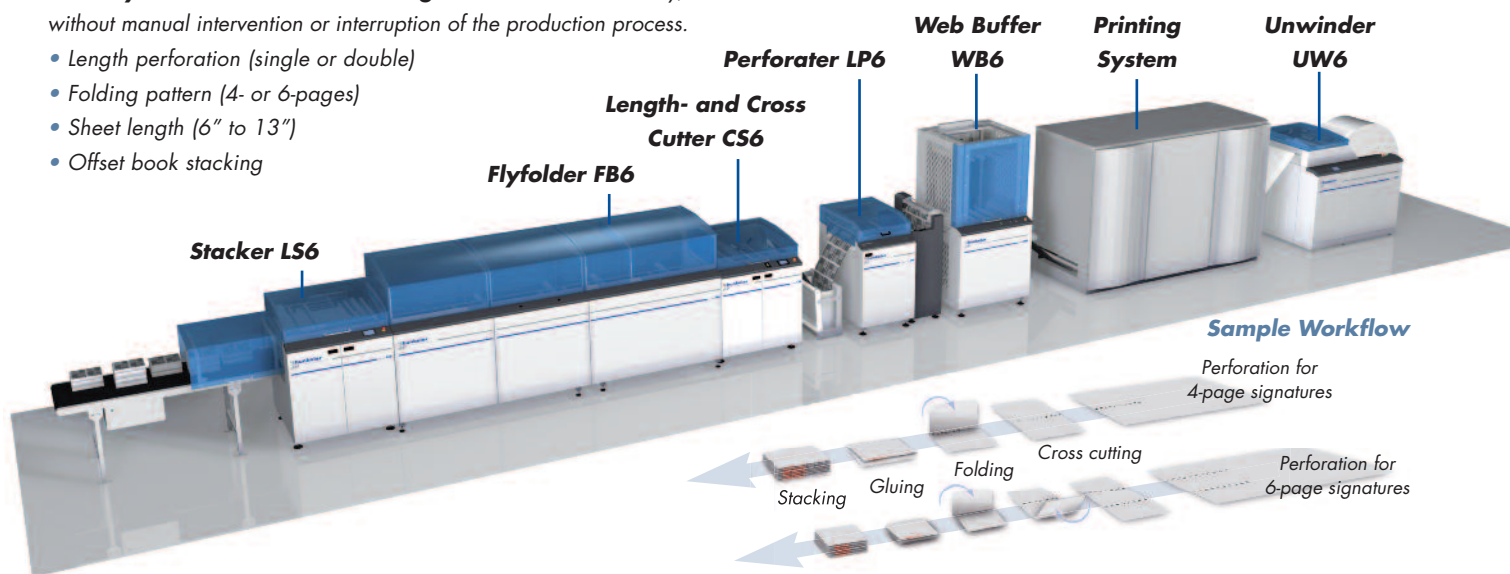
The **fully automated format change-over** is done on the fly, without manual intervention or interruption of the production process.

- Length perforation (single or double)
- Folding pattern (4- or 6-pages)
- Sheet length (6" to 13")
- Offset book stacking

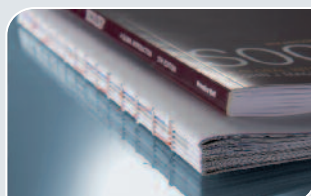
Technical Data* | Flyfolder Book Solution

Max. roll diameter:	54"	1370 mm
Web width:	17" – 19.5"	432 – 495 mm
Production speed:	up to 325 ft/min	up to 100 m/min
Paper weights:	60 – 120 gsm	40 – 80 lb offset/book
Cut length:	6" – 13"	152 – 330 mm
Performance:	up to 600 stacks per hour	

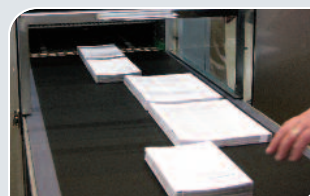
Options: Front/Back Verification, Offset unit, Book block gluing, Sheet bypass



Folded/stacked book signatures



Thread sewn book binding



Fully automatic format changes



Optional inline perfect binding




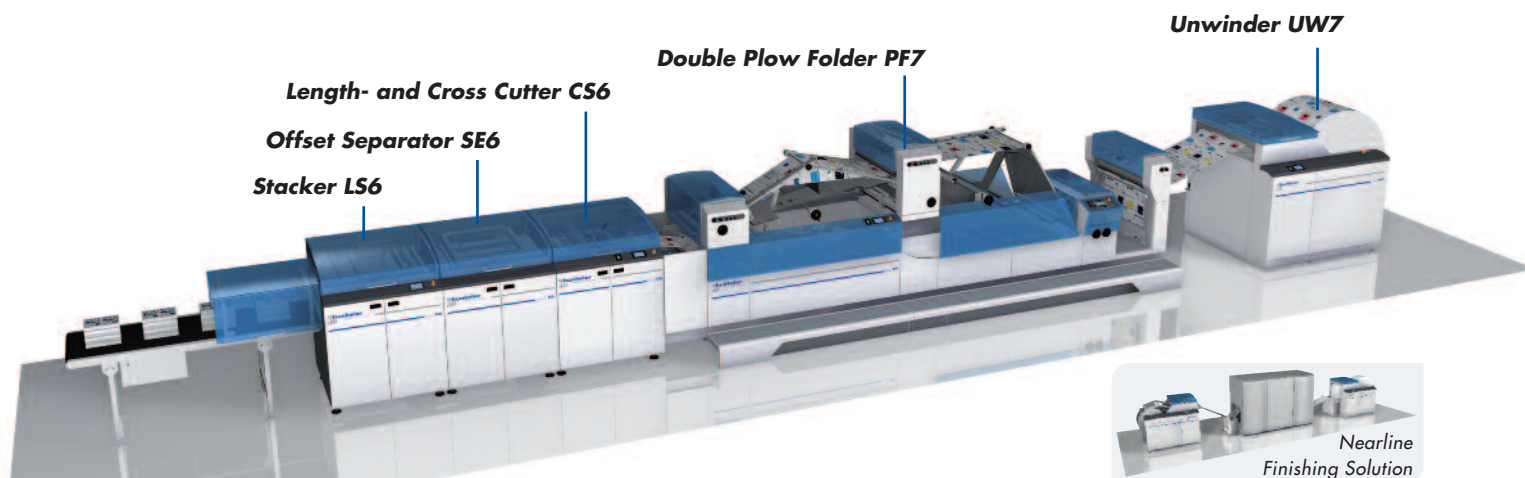
Books

Loose sheet or signature book stack-production with Double Plow Folder

This book solution for 20" – 30" paper web widths offers more advantages because of its modular concept: the offline use of the proven Cross Cutter CS6, the Offset Separator SE6 and the Stacker LS6 give new possibilities in book and document production at speeds of up to 150 m/min (500 fpm). The delivered stacked sheets with optional offset and up to 4-up production are well suited for a wide variety of finishing processes such as booklets, books, banded stacks, Wire-O or perfect binding.

Technical Data* | Book Solution with PF7 and LS6

Max. roll diameter:	50"	1270 mm	
Web width:	up to 30"	up to 762 mm	
Production speed:	up to 500 ft/min	up to 150 m/min	
Paper weights:	60 – 150 gsm	40 – 100 lb offset/book	
Folds:	1 to 2 plow folds (2 to 3 layers)**		
Format length:	5.5 – 19"	140 – 483 mm	
Book block thickness:	up to 2"	up to 50 mm	
Stack height:	up to 9.8"*	up to 250 mm* (*format depend.)	
**Folding types:	Parallel fold, roll fold, gate fold		



Loose leaf bookstack with LS6



Soft cover book



Front / Back print verification



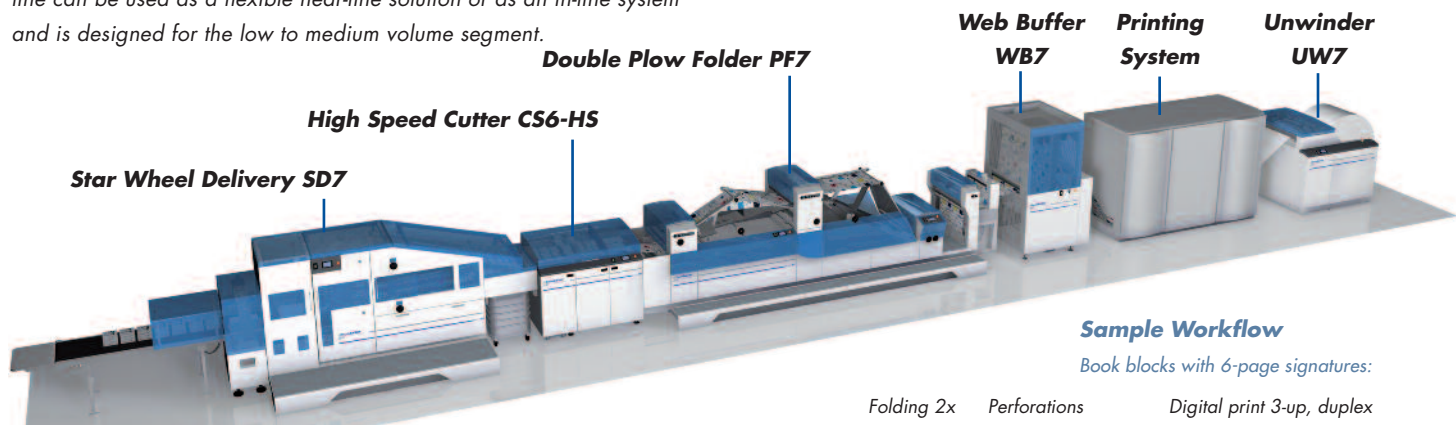
Thread sewn book binding

Book Block Solution with star wheel delivery

The modular book solution for the production of glued book blocks in-line or off-line 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 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 in-line system and is designed for the low to medium volume segment.

Technical Data* | Book Block Solution with SD7

Max. roll diameter:	50"	1270 mm
Web width:	up to 30"	up to 762 mm
Production speed:	up to 656 ft/min	up to 200 m/min
Paper weights:	60 – 150 gsm	40 – 100 lb offset/book
Folds:	1 to 2 plow folds (2 to 4 layers)	
Format length:	8 – 14"	203 – 355 mm
Book block thickness:	up to 2"	up to 50 mm
Stack height:	up to 4 3/4"	up to 120 mm
Productivity:	up to 450 delivery cycles per hour:	
	- for format 6x9":	4140 book blocks with 96 pages
	- for format DIN A5:	4500 book blocks with 96 pages
	- for format DIN A4:	2420 book blocks with 96 pages

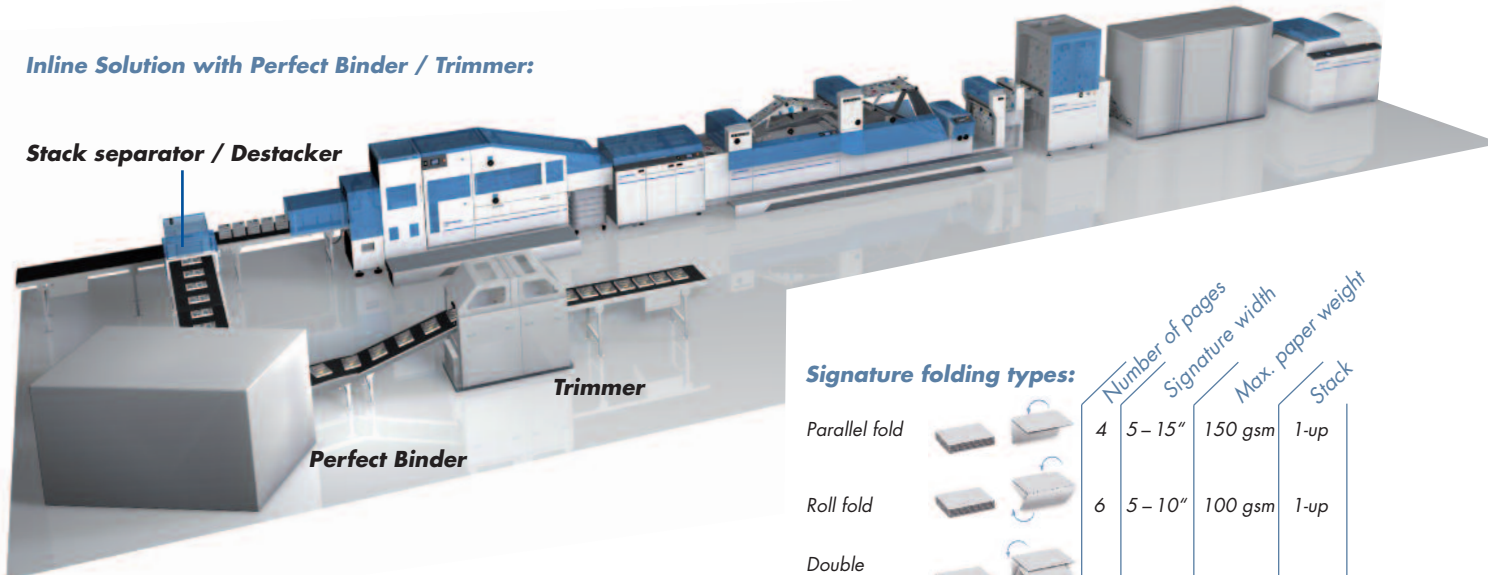


Sample Workflow

Book blocks with 6-page signatures:

Folding 2x Perforations Digital print 3-up, duplex

Inline Solution with Perfect Binder / Trimmer:



Signature folding types:

		Number of pages	Signature width	Max. paper weight	Stack
Parallel fold		4	5 – 15"	150 gsm	1-up
Roll fold		6	5 – 10"	100 gsm	1-up
Double parallel fold		8	5 – 7.5"	80 gsm	1-up
Gate fold		2x4	5 – 7.5"	150 gsm	2-up
Loose leaf		Loose sheet stacks for thread sewing or stitching			



Pre-glued book blocks with SD7



Budget Binding



High performance robot system



Stack separator / Destacker



Brochures

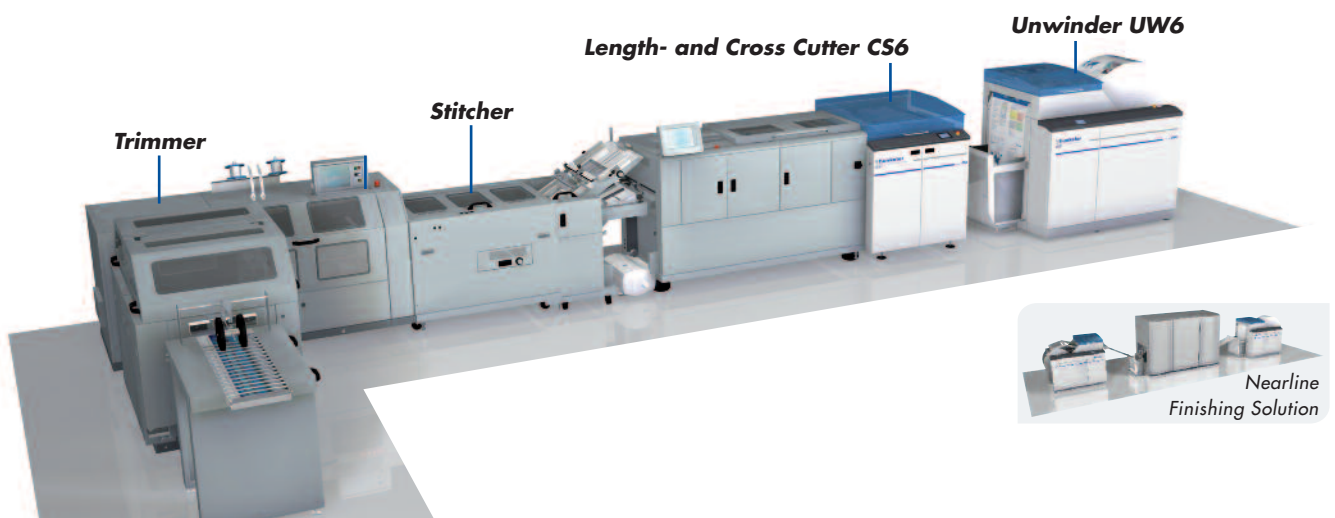
High performance booklet production

Full-color personalized brochures with a variable number of pages. The solution for high speed production of educational booklets, leaflets, manuals, direct mailers, and other saddlestitched products from a roll. Optionally - the line can be equipped with the dynamic and vertical perforator DP6, and cover and sheet inserting. Process includes the paper web feeding from the Unwinder UW6, cross cutting in the CS6-I and gathering, folding, stitching and trimming in a saddlestitching system.

Technical Data* | UW6 - CS6 Booklet production line

Max. roll diameter:	54"	1370 mm
Web width:	11" - 19.6"	279.4 - 500 mm
Cut length:	8.3 - 13.7"	210 - 350 mm
Production speed:	up to 600 ft/min	up to 180 m/min
Paper weights:	52 - 210 gsm	35 - 120 lb offset/book
Productivity:	up to 6000 booklets per hour, format A4, 24 pages	

Options: Cover and Sheet inserting unit,
Dynamic vertical and cross perforator DP6



Stitched brochures



Dynamic glued brochures



Brochure with integrated vouchers



Inline saddle stitching / trimming

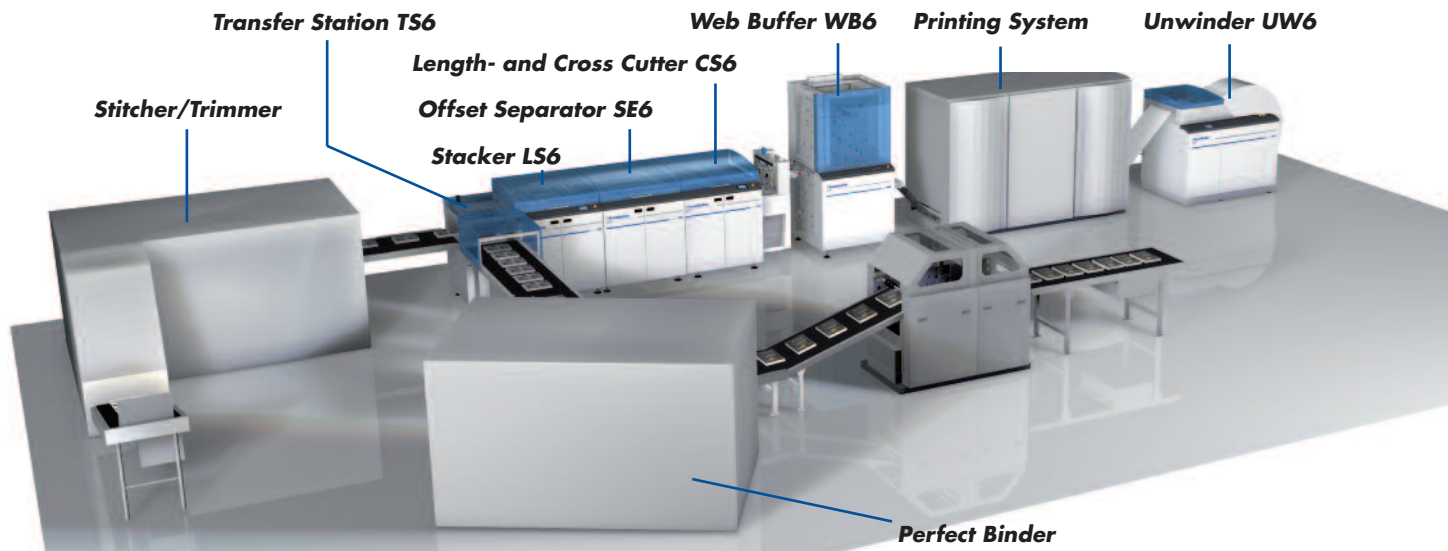
Booklets and Books Combi-Solution

With this combined solution it becomes possible to produce perfect bound books as well as saddle stitched end products.

The centerpieces of this digital production line are the CS6 Cross Cutter and the TS6 Transfer Station. The paper web is cut into single sheets by Hunkeler's precision rotary cutting system. The TS6 Transfer Station allows quick and easy diverting of the output to the inline saddlestitching system or book block stacks directed to a perfect binder.

Technical Data* | Combi-Solution Brochures/Books

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:	52 – 210 gsm	35 – 120 lb offset/book
Stack height:	9 7/8"	250 mm

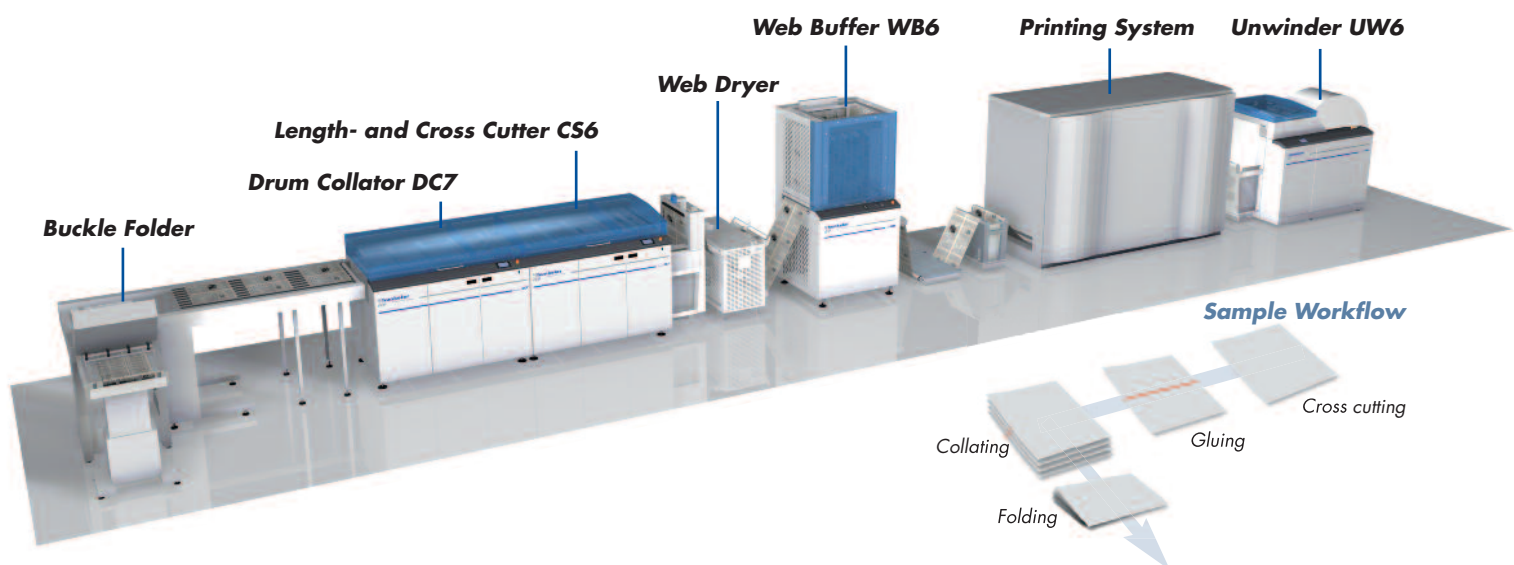


Glued Booklet Solution

The modular Hunkeler brochure solution for the production of variable on demand booklets offline or inline with continuous feed digital printing systems. Dynamic glue application in the Drum Collator DC7 enables flexible production options such as spine gluing of jobs printed in magazine and tabloid newspaper format, or producing products with several spine-glued and interlocking sections.

Technical Data* | Glued Booklet Solution with CS6-DC7

Max. roll diameter:	54"	1370 mm
Web width:	11" – 20.5"	279 – 520 mm
Production speed:	up to 500 ft/min	up to 150 m/min
Paper weights:	40 – 100 gsm	30 – 70 lb offset/book
Cut length:	up to 32 1/4"	up to 820 mm
Number of pages:	4 – 48 Pages	
Productivity sample:	3500 ex/h, 24 pages cut length 13", 2-in 500 ft/min	
Options: Cross cut with chip-out, Knife folder		



Additional books with Combi



Book signature production with DC7



Additional Newspaper production



Front / Back print verification



Newspaper

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.

Broadsheet Workflow



Technical Data* | Newspaper, Broadsheet line

	POPP6 (UW6-CS6-DC7)	POPP7 (UW7-CS7-DC7)
Max. roll diameter:	1370 mm (54")	1370 mm (54")
Web width:	11" – 20.5" (279 – 520 mm)	11" – 26" (279 – 660 mm)
Cut length:	up to 32.5" (820 mm)	up to 32.5" (820 mm)
Paper weight:	40 – 120 gsm 25 – 74 lb newsprint	40 – 120 gsm 25 – 74 lb newsprint
Speed:	up to 150 m/min up to 500 ft/min	up to 150 m/min up to 500 ft/min
Number of pages:	8 – 96 pages	8 – 96 pages
Productivity sample:	1800 ex/h Broadsheet (cut length 24.8") 24 pages, with printer speed 500 ft/min	



Tabloid or Broadsheet format



Knife folding (optional)



Production of individual editions



Electrostatic set fixing

Newspaper Tabloid Solution

The modular Hunkeler newspaper tabloid solution for the production of variable on demand newspapers and booklets offline or inline with continuous feed digital printing systems. Line gluing option for collated tabloid newspapers and booklets. This technology is revolutionary in that it offers an entirely novel approach to newspaper and booklet production.

Tabloid Workflow



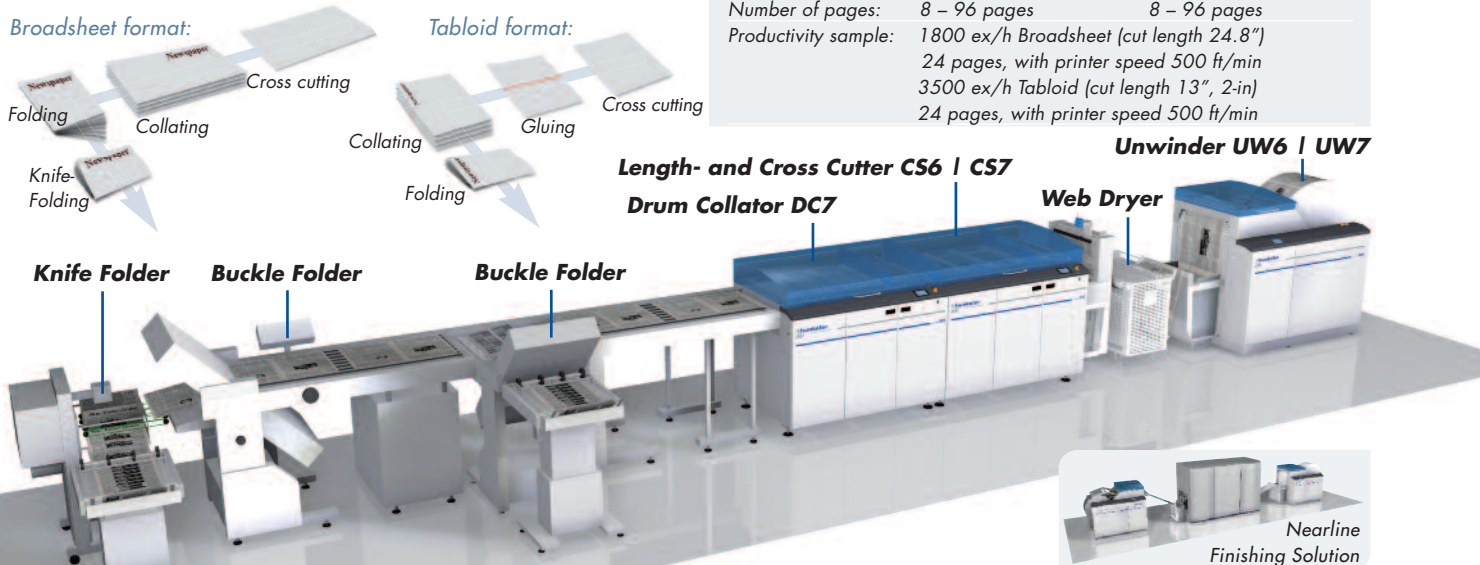
Technical Data* | Newspaper, Tabloid line

	POPP6 (UW6-CS6-DC7)	POPP7 (UW7-CS7-DC7)
Max. roll diameter:	1370 mm (54")	1370 mm (54")
Web width:	11" – 20.5" (279 – 520 mm)	11" – 26" (279 – 660 mm)
Cut length:	up to 26" (660 mm)	up to 26" (660 mm)
Paper weight:	40 – 120 gsm 25 – 74 lb newsprint	40 – 120 gsm 25 – 74 lb newsprint
Speed:	up to 150 m/min (500 ft/min)	up to 150 m/min (500 ft/min)
Number of pages:	8 – 96 pages	8 – 96 pages
Productivity sample:	3500 ex/h Tabloid (cut length 13", 2-in) 24 pages, with printer speed 500 ft/min	

Newspaper Combi-Solution

Newspaper line for broadsheet and tabloid products. Configuration for quickly shifting from broadsheet to tabloid, with the appropriate folding processes. Dynamic glue application in the Drum Collator DC7 enables versatile production options such as spine gluing of tabloid newspapers and job printing in magazine format or issuing tabloid products with several spine-glued and interlocking sections.

Combination Workflow



Technical Data* | Newspaper, Combined line

	POPP6 (UW6-CS6-DC7)	POPP7 (UW7-CS7-DC7)
Max. roll diameter:	1370 mm (54")	1370 mm (54")
Web width:	11" – 20.5" (279 – 520 mm)	11" – 26" (279 – 660 mm)
Cut length:	up to 32.5" (820 mm)	up to 32.5" (820 mm)
Paper weight:	40 – 120 gsm 25 – 74 lb newsprint	40 – 120 gsm 25 – 74 lb newsprint
Speed:	up to 150 m/min (500 ft/min)	up to 150 m/min (500 ft/min)
Number of pages:	8 – 96 pages	8 – 96 pages
Productivity sample:	1800 ex/h Broadsheet (cut length 24.8") 24 pages, with printer speed 500 ft/min 3500 ex/h Tabloid (cut length 13", 2-in) 24 pages, with printer speed 500 ft/min	



Glued tabloid sections



Book signature production



Dynamic glued brochures



Front / Back print verification

Security print finishing

Roll to Stack Solution with dynamic perforation/punch

Roll-to-stack processing including the unit for dynamic file hole punching. Individual hole and perforation patterns and shape punching as a security element in different end products. Full-color personalized direct mailers with integrated vouchers and coupons with a variable number of pages. Inline process with paper web feeding from the UW6, dynamic vertical and cross perforation in the dynamic perforation Module DP6, full bleed cutting in the CS6-II and stacking. Process control with product tracking and quality assurance.

Technical Data* | Roll to Stack with dynamic Punch/Perf

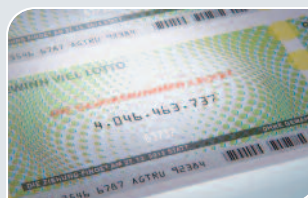
Max. roll diameter:	54"	1370 mm
Web width:	6.5" – 20.5"	165 – 520 mm
Production speed:	up to 500 ft/min	up to 150 m/min
Paper weights:	60 – 160 gsm	16 – 40 lb bond
Stack height:	9 7/8"	250 mm
Variable chip-out:	3/16" – 2 3/4"	4.8 – 70 mm
Format length:	5.5" – 19"	140 – 482 mm
File hole punching:	2-, 3-, 4 hole pattern	Ø 5,5 – 8 mm
Shape punching:	5.5x5.5 – 8x10 mm	
Options:	Large sheet delivery LS6-28"	



Coupons with shape punching



Checks with safety features



Ticket with numbers



Ticket with safety features

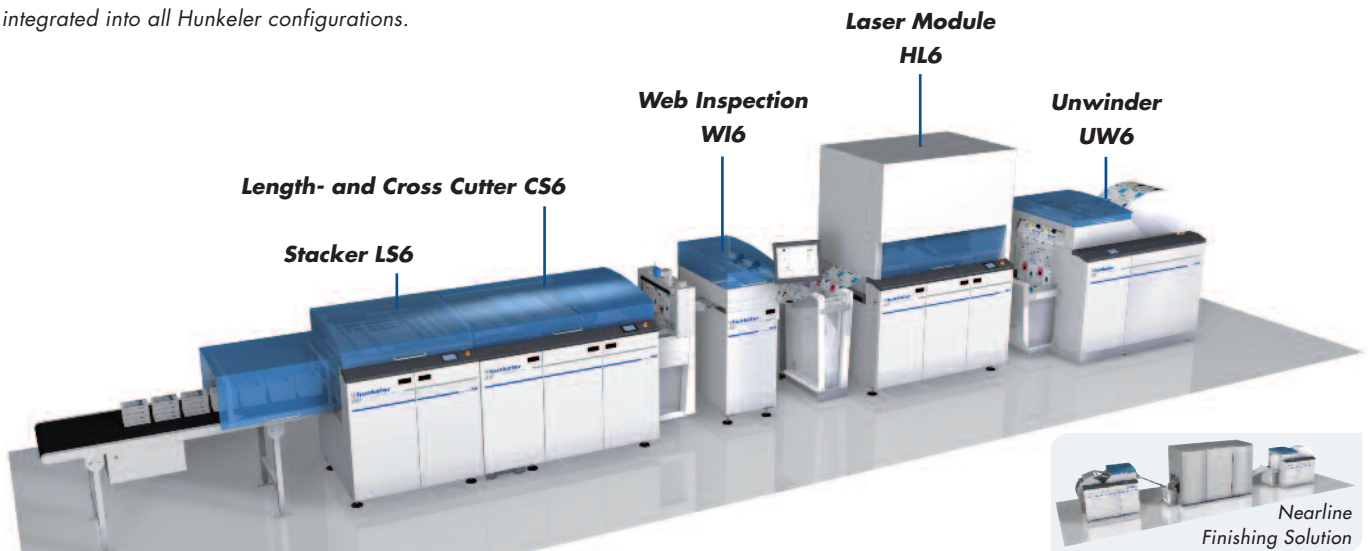
Safety Features with Laser HL6

The HL6 laser module is certain to have a bright future in the production of checks, coupons and mail products. Patented laser technology allows the dynamic punching and engraving of customized forms, allowing simple to complex security features and an infinite variety of customized perforation patterns. The LaserEditor controller interprets native vector data and enables the simple entry of punching patterns. The laser module works at the unmatched speed of up to 150 meters per minute (500 fpm), in 1-up or 2-up mode and can be integrated into all Hunkeler configurations.

Technical Data* | Roll to Stack with Laser HL6

Max. roll diameter:	54"	1370 mm
Web width:	6.5" – 20.5"	160 – 520 mm
Production speed:	up to 500 ft/min	up to 150 m/min
Paper weights:	40 – 200 gsm	27 – 120 lb offset/book
Laser power:	350 W, CO ₂ Laser, Class 1 with Chiller	
Stack height:	9 7/8"	250 mm
Variable chip-out:	3/16" – 2 3/4"	4.8 – 70 mm
Applications:	1 up – 2 up	

Options: Chip-out with CS6-II, Second Laser Head HL6-II, Offset Separator SE6



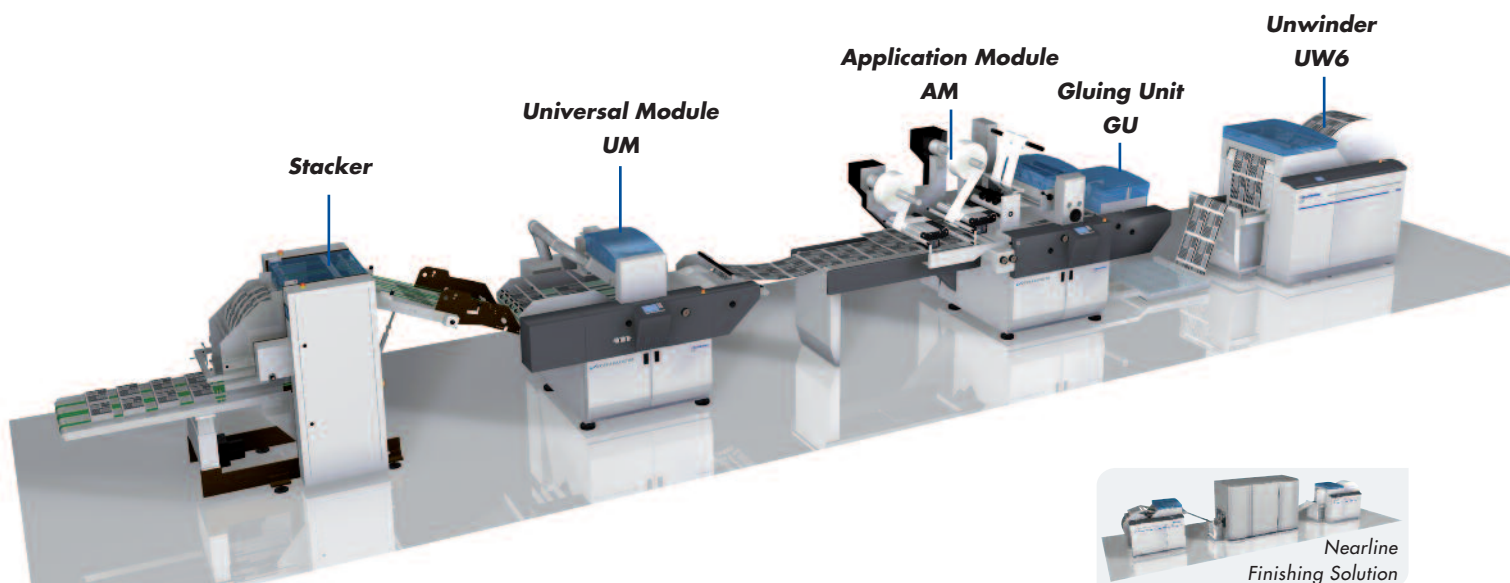
Integrated Label and Card

Production with integrated butterfly card on the Hunkeler Variweb web finishing line. Front application of the plastic sheet for the card and gluing to the back the silicone paper in only one process step (double end) via the same application module. Die cutting the butterfly card as well as cross cut with chip-out in the Universal Module.

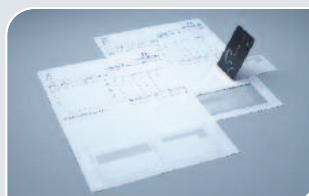
Technical Data* | Label & Card Solution with AM-UM

Max. roll diameter:	54"	1370 mm
Web width:	6" – 20.5"	150 – 520 mm
Production speed:	up to 500 ft/min	up to 150 m/min
Paper weights:	60 – 160 gs	16 – 40 lb bond
Final format length:	4" – 34"	101 – 863 mm
Variable cut-out:	1/4" – 2"	6.4 – 50 mm

Options: Hotmelt gluing



Creative security labels



Plastified member cards



Labels



Security inspection systems

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 camera 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.

Control Platform

Red-Point Bank
Victoria Street | 8000-Zürich | Switzerland | 062 745 6161

Account No. 48065745
Statement: 1 Mar-31 Oct
Page No. 1 of 3
Credit Limit € 2000.00
Balance € 4428.80

Date	Description	Debits	Credits	Balance
01 Mar	Freddie's Bike Store	224.30		€ 4204.50
04 Mar	Pazza Pizza	27.20		3795.50
21 Mar	Super Petrol Station	62.25		3733.25
30 Mar	Payment receipt, ABC Corp.		743.55	4476.80
04 Apr	My Fotobook.com	66.30		4410.50
19 Apr	Super Petrol Station	59.90		4350.60
20 Apr	King Hotel Berlin	302.10		4048.50
25 Apr	Swiss Airline LX1212/1214	823.10		3225.40
29 Apr	Town Garage Lucerne	542.15		2683.25
04 May	Online Payment Received		1243.00	3926.25
17 May	Flower Power Corp.	33.70		3892.55
29 May	Swiss Driving Range	242.25		3650.30
01 Jun	Old Town Fitness Studio	120.00		3530.30
11 Jun	Pazza Pizza	35.75		3494.55
18 Jun	Freddie's Bike Store	1245.90		2248.65
27 Jun	Payment receipt, ABC Corp.		823.30	3071.95
30 Jun	Diving School Lucerne	199.90		2872.05

Safe € 5.00 !
Safe € 15.00 !
Safe € 100.00 !

Red-Point Bank
Victoria Street | 8000-Zürich | Switzerland | 062 745 6161

Account No. 48065745
Statement: 1 Mar-31 Oct
Page No. 2 of 3

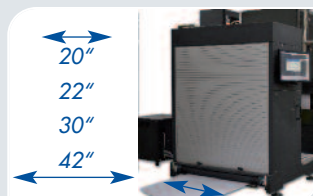
Date	Description	Debit	Credits	Balance
02 Jul	Shoe Megastore	99.50		2772.55
06 Jul	Rudy's Accessories	112.75		2659.80
18 Jul	Super Petrol Station	70.05		2589.75
22 Jul	Payment receipt, ABC Corp.		810.30	3400.05
31 Jul	Palace Gift Shop Zurich	22.20		3377.85
11 Aug	Super Petrol Station	65.25		3312.60
17 Aug	Pazza Pizza	57.10		3255.50
23 Aug	Electric Installation Inc.	1021.40		2234.10
02 Sep	Science Museum	60.15		2173.95
09 Sep	Online Payment Received		1440.00	3613.25
24 Sep	Flower Power Corp.	30.10		3583.85
30 Sep	Pazza Pizza	45.30		3538.55
01 Oct	Online Ticket Shop	189.90		3348.65
15 Oct	Victoria Place Jewellery	399.75		2948.90
30 Oct	Payment receipt, ABC Corp.		799.90	3748.80
Total Debits		6158.25		
Total Credits			5860.05	
Balance				3748.80

Safe € 10.00 !
Safe € 12.00 !
Free full-day ticket for 2 Person !

Continued on next page >>>>



W16 Stand alone solution



Different web width solutions



Integrated solution



Easy operation

Data package Software:

(1) Barcode reading and grading

Tests and validates the readability of fifteen bar code symbologies, including Code 128, Code 39, interleaved 2/5, EAN, UPC, RSS, PHARMACODE, Datamatrix, QR code, and PDF417. Grades barcodes following ANSI rules (ISO/IEC 15415 and 15416).

(2) Data matching

Reads and compares data from multiple locations to ensure a match. Capabilities include matching data anywhere within a form, including comparing data from the front-side of the form to data on the back side.

(3) Postal code verification

Verifies the integrity of the address Postal Barcode, supports several Postal Barcode standards including POSTNET, USPS IMB, RM4CC, Australian, etc.

(4) OCR verification

Provides human readable codes interpretation by OCR supported by Neural Networks interpretation, evaluates the quality of the codes providing a scoring of the field against a reference dictionary. Supports up to 4 independent scalable fonts per job and allows teaching of custom fonts at the job level.

(5) MICR verification

Provides MICR code line interpretation for both E13B and CMC7 standards, evaluates the quality of the code line by analyzing dimensions, shapes and distortions.

(6) Data validation

Read data (from any supported variable data field) and validate that it is accurate, by means of the provided matching functions. As an example: confirms that the payment amount on a check is correct. Also, validate that the data element is in the correct (expected) format and position.

Graphic package Software:

(7) Dimensions and position measurement

Verifies proper alignment and size of a graphical object against the page reference point.

(8) Color measurement

Match printed output colors to a color pattern sample by means of Delta-E relative color deviation measurement following L*a*b CIE 1997 standard for typographic environment.

(9) Density scale control

Verifies toner/ink densities to confirm their compliance with respect to a provided reference, and/or across the web to validate the consistency of color densities throughout the entire printable area.

(10) Print registration

Verifies the alignment of the different color planes by measuring an optimized pattern, and detecting the position error in both vertical and horizontal directions.

(11) Jet-out detection

Ensures printed lines and color blocks do not contain unwanted white space. The system checks the uniformity of the ink density on each color plane on a specifically optimized pattern to ensure inkjet heads are functioning as intended.

(12) Streak, spots and smearing detection

Look within an identified expected uniform zone (typically non-printed or in a solid homogeneous color) for streaks, spots and smearing.

(13) Image / Logo match

Verify that a stored image appears as required on a page, verifying and grading its shape and colors compared to the provided master. For example, confirm that a signature is properly in place on a check or that a logo has the proper shape, position and colors.

Site Manager server:

When the WI6 Web Inspection System is connected to the external Site Manager tracking server, it can provide additional functionality such as:

- **Full production tracking**

The Site Manager uses the tracking information sent by the WI6 Web Inspection System to perform comprehensive production tracking on complex production sites.

- **Variable data matching / retrieval**

The WI6 sends the Site Manager complete information on every control/verification performed on each inspected page.

- **Duplicates check**

Check a job and document ID's against a database to ensure that any single document of any single job hasn't been printed twice.

- **Sequence verification**

Verifies and ensures the proper pages / document sequencing.

- **Production integrity verification**

Verifies and ensures the proper production integrity.

- **Production reporting**

A wide range of production reports can be produced.

- **Interface to ADF platforms**

- KERN MailFactory
- PITNEY BOWES DFWorks
- BOWE One
- IRONSIDES Apt



Reporting



Immediate intervention



Tracking options



Site Manager



Special Solutions

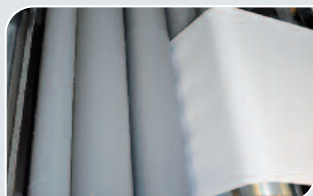
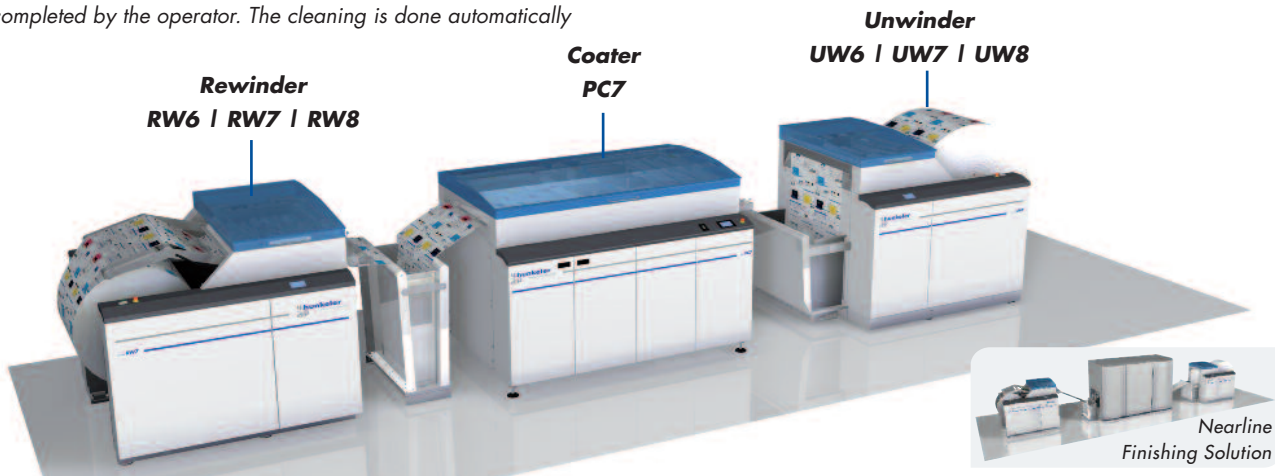
Coating Solution

The PC7 primer coater module undoubtedly gives inkjet technology a new and interesting alternative to established printing processes. This innovative solution is designed for primer application (pre-coating) and varnishing (top-coating). Depending on the intended use, the PC7 is integrated either before or after the digital printing process. Offline configurations are also possible.

In top-coating applications, the PC7 module can be used for the full-surface varnishing of the paper web with a water based coating agent following the printing process. The web can be top-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).

Technical Data* | Roll to Roll with Coater PC7

	POPP6 (UW6-RW6)	POPP7 (UW7-RW7)	POPP8-Wide (UW8-RW8)
Max. roll diameter:	54" (1370 mm)	54" (1370 mm)	54" (1370 mm)
Web width:	8" – 20.5"	8" – 30"	8" – 30"
Production speed:	up to 150 m/min	up to 150 m/min	up to 150 m/min
Paper weights:	40 – 180** gsm	40 – 300 gsm	40 – 300 gsm
Roll weight max.:	800 Kg	800 Kg	1500 Kg
Applied quantity:	0.5 – 4.5 gsm	0.5 – 4.5 gsm	0.5 – 4.5 gsm
Coating agent:	Water based		
Options:			
**Heavy paper kit:	40 – 300 gsm		
	Decurler Slitter	Web Guide	Decurler, Slitter Web Guide



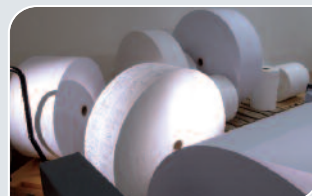
Patented 3-rollers coating-unit



Top-Coating for finished products



Different applications / effects



Primer: Use of non threaded offset paper



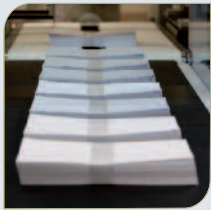
Bingo Solution

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.



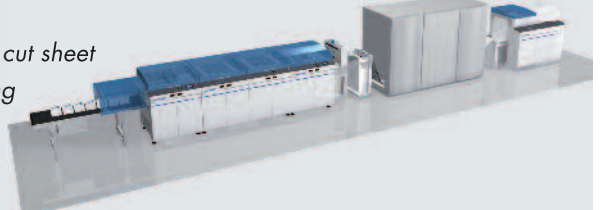
Dyna-Cut

The versatile Dyna-Cut feature of the Hunkeler POPP cut sheet lines offers fully dynamic sheet length control on the fly, increasing the profitability by saving unwanted waste.



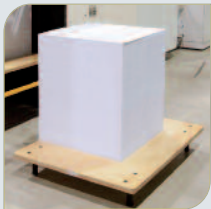
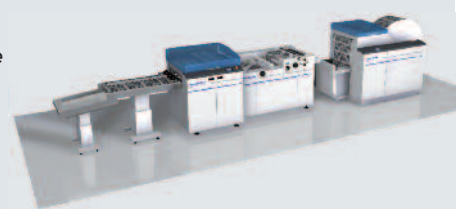
Banding Solution

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.



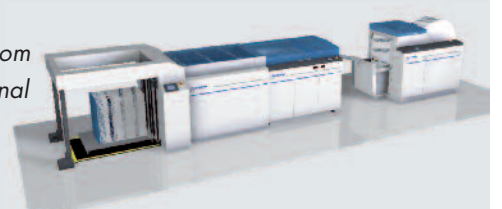
Long sheet delivery with jogger table

Jogger tables offer a very cost effective entry level solution for the occasional yet reliable production of large format sheets.



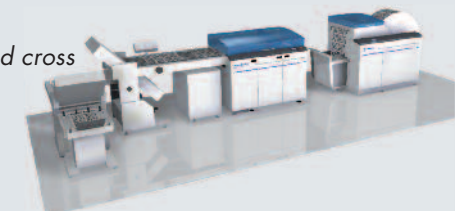
Large format solution with UW7-CS7-LS7

Mid-size format high pile stacking solution, roll to cut-sheet from DIN-A3 all the way to DIN-A1 sheets for finishing in conventional cut sheet workflows.



Pharma application: UW6-CS6-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 different applications and waste volumes all equipped with dust filter and low noise emissions.



Remote Assist

A "remote connection" allows the external Hunkeler Supporter a safe access to the line PC (HLI) of your Hunkeler line. The whole purpose of a remote connection are error analysis, troubleshooting, data backup or production support.

huncustomer
services

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 largerange of our potential endproduct 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.*



Excellence in Paper Processing

Hunkeler AG
Bahnhofstrasse 31
CH-4806 Wikon

Phone: +41-62 745 61 61
Fax: +41-62 745 62 76
info@hunkeler.ch

Hunkeler Deutschland GmbH
Bergstrasse 15
D-82024 Taufkirchen

Phone: +49-89 614 1590
Fax: +49-89 612 8400
info@hunkeler.de

Hunkeler Far East Ltd.
Room 1001, East Town Bldg. 41,
Lockhart Road
Wanchai, Hong Kong
Phone: +852-2528 4082
Fax: +852-2866 2401
info@hunkeler.hk