



EHRET Control GmbH
Member of the **MBO Group**



Innovative Web Finishing Solutions
In-line & Off-line



<http://www.EHRET-Control.com>

General Overview



Founded in 1982 with its headquarters in Freiburg/Germany, EHRET Control GmbH specializes in providing innovative web finishing solutions for complex problems, particularly in the printing, label and packaging industry.

Our core business is industrial web finishing of the (printed) roll, including all refinement processes (in-line & off-line), for maximum productivity and cost efficiency. Our modular system provides maximum flexibility in production along with the shortest set-up times. All of our state-of-the-art web finishing lines can be easily retrofit later with our latest innovations. EHRET Control offers you a complete solution from unwind unit to diverse web treatment modules and stacking solutions, for maximum automation and profitability.

Since 1st January 2008 EC is Member of the MBO Group: This new constellation means for our customers, that we will be able to realize all innovations and future projects much faster and more efficiently by using the synergy within the MBO-group in all divisions. Therefore we will be much stronger, faster, and more professional – world wide.



From the roll you are able to produce at outstanding speeds. For example, while cutting the final format in only one production step with cut-out, for an output of 36.000 – 42.000 units per hour/per stream (i.e. with a 720 mm (28") wide line with 4-up production you can produce up to 160.000 finished products/per hour – folded, stacked & banded). All of this with a single operator for the whole line. Automation and fast set-up make this a solution that pays off for smaller jobs too.



Main Business Domains:



- **Printing Industry**
(i.e. Offset & Digital)
- **Direct Mailing Industry**
- **Label Industry**
- **Book/Newspaper Production**
- **Pharmaceutical Industry**
- **Card Board Converting**
- **Complete Production Lines**

Standard Web Widths:

- 400 mm / 15,7"
- 520 mm / 20,5"
- 720 mm / 28,3"
- 1020 mm / 40,2"

We provide complete finishing lines for i.e.:

- (Pocket) Book Production
- In-line Sheet & Stack Solution for large size sheets (also for critical paper)
- Booklet Label Production
- Folded Boxes
- In Mould Labels
- Food Labels
- Cigarette Inserts



*** Please contact us for more details! ***

Standard Modules



Our Modular State Of The Art Products	
	Unwind Unit UW +52 / Rewind Unit RW +52 NEW Digital Unwinder UW 2 / Rewinder RW 2
	Pile Infeed Table for Fan-Folded Stacks PIT
	Split & Merge Module SPM NEW Double Module PSM 520 (PFS+SPM)
	Plow Fold Station PFS NEW Double Module PSM 520 (PFS+SPM)
	Rotary Die Cut Unit RDC
	Scoring & Die Cutting Unit SDC
	Flexo Printing Unit FPU
	Fast Turn Table 90° FTT
	Variable Digital Sheeter with Chip-Out SVC 521 C NEW SVC 525 C with completely variable chip out(!)
	Variable High End Sheeter with variable Chip-Out VC
	Variable Strip Cutter with variable Chip-Out VSC
	Shingle Stream Delivery SSD
	Star Wheel Delivery SWD
	Batcher Stacker ST 200
	High Pile Stacker SHP 800
	Label Stacker For Stripes STS 150
	Variable Intelligent Palletizer VIP 850

All of our web finishing standard modules can easily be implemented in an existing line, directly behind a printing press, or off-line with an unwinder or pile in-feed table.

Due to our extensive experience in specialized machinery and solutions, we are very flexible in providing you with the perfect solution to significantly improve your production.

We are looking forward to help you improve your efficiency with our innovative high-end solutions.

We also offer other additional modules that are not mentioned in this table:

- Gluing Systems
- Web Turning Stations (90° or 180°) **WTS**
- Needle Perforation **NPF**
- Embossing **EMS**
- Varnishing **VSH**
- UV-Silicon Printing **SPU**
- Hot Melt Printing **HGP**
- Basic Frames for Ink Jet **BF**
- External Exhaust Units **VSN-Ext**
- Vacuum Buffers for in-line Finishing with Digital Printers **VCB**



Please contact us for more information concerning our innovative solutions.

Sheet & Stack Options



Unwinder & Presses

Add. Modules

Variable Sheeters

Deliveries

Stackers

Unwind Unit

UW 52

Continuous Unwind
CUW 52



Pile In-Feed Table

EHRET
Sheet &
Stack
Solution

Printing Press

Digital Printer

SPM	Split & Merge
EMS	Embossing Station
NPF	Needle Perforation Station
RDC	Rotary Die Cut Unit
PFS	Plow Fold Station
VSH	Varnishing
SLA	SLA Station
HGP	Hot Melt Printing Unit
SPU	UV-Silicon Printing Unit
VAT	Vacuum Table
WTS	Web Turning Station
FTT	Fast Turn Table (90°/180°)

Sheeter
(Single/Double Cut)

VC C

Eco-Sheeter

SVC

Sheeter (Stripes)

VC S

Strip Cutter

VSC

Shingle Stream

SSD

Star Wheel

SWD

Folder

Batcher Stacker

ST 200

High Pile Stacker

SHP 300

In Mould Stacker

STI 150

All our web treatment modules are available in both running directions.

All of our web treatment modules can be run either in-line or off-line with diverse materials (paper, foil, card board etc.) and can also be easily retrofit later, to guarantee sustained production success as well as a competitive advantage for all of our customers.

*Innovative In-Line
Solutions for*

**Digital
Printing**

Core products are our **patented variable sheeters** with (variable) chip-out. Format length and chip-out can both be changed during production and are stepless adjustable.

Due to our high automation level, together with persistent industrial design and outstanding productivity – including critical papers – we have consolidated our world market leadership in specialized high end markets worldwide.

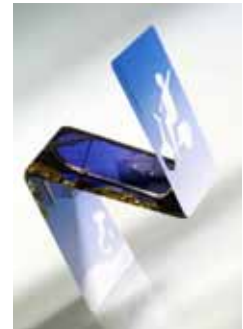
In just a few years, more than 150 successful installations worldwide have motivated us to achieve a higher level of innovation and set higher production records for our customers. The greatest testament to our service and commitment to our customers is that two-thirds of our customers have ordered at least a second production line within the first 6 months of production.



We provide various label finishing solutions for specialized markets, up to a maximum web width of 40" (1020 mm) – all modular for maximum flexibility in production.

 EHRET Control Label Solutions	
	In-line or off-line finishing equipment for all sort of Food Labels .
	Complete production line for industrial finishing of Booklet Labels .
	Complete production line for industrial finishing of In Mould Labels IML .
	Cigarette Inserts from the roll.
	Finishing line for producing all sorts of Folded Card Board Boxes (i.e. pharmaceutical boxes, cigarette boxes, soap boxes, food boxes etc.).
	VSC Variable Strip Cutting line with variable chip-out equipped with a stacker and interface for subsequent die cutting with counter pressure of the final label shape.

Paper, Foil and Card Board can be converted with our flexible finishing equipment!



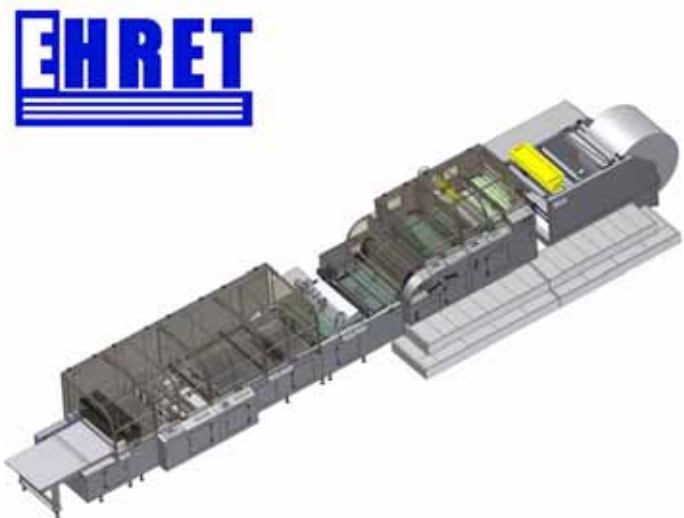
Please contact us if you need more information concerning our innovative solutions.

The layout shows a **40" wide label finishing line** – including the following EHRET Control modules:

- Unwind unit & web guide
- Variable (strip) sheeter with chip-out
- Synchronized waste deviation
- Shingle stream delivery
- Star wheel delivery
- Shingle stream divider
- Card board inserter
- Vacuum table
- Label stacker with integrated pressing station
- Interface for a die cutting unit with counter pressure



This Variable Strip Cutter **VSC** is designed especially for cutting stripes out of offset printed rolls with variable chip-outs.



Unwind / Rewind Units

UW +52 / RW +52



This unwind unit for large size rolls is driven by a dancer controlled servo motor. This unit can be used either in front of (digital) printers or web finishing lines with the following features:

- Pneumatic expanding unwind shaft
- Dancer controlled servo motor with easy dancer setup position
- Applicable for lines with or without web tension (digital printers)
- Constant web tension
- Electric paper lift
- **NEW: Digital Unwinder UW 2 / Rewinder RW 2** (with integrated Vacuum Box & Touch Panel)
- Optional: web guide for a perfect sidewise register



NEW
Digital Unwinder UW 2 /
Digital Rewinder RW 2



(Our rewind modules work the same way as our unwinders)

This unwind unit is of solid industrial design and adheres to the following **specifications:**

- max. roll diameter 52" = 1.32 m (60" optionally available)
- core diameter standard 70 mm (optionally: any larger diameter)
- max. production speed 400 m/min
- max. web width 400 / 520 / 720 / 1020 mm
- min. web width 100 mm
- paper quality 36 gr/m² – 400 gr/m²
(also for foil, card board etc.)
- manual splice table with pneumatic fixing bars
- decurling drive as standard
- 3-phase electric connection
- air pressure: 6 bar

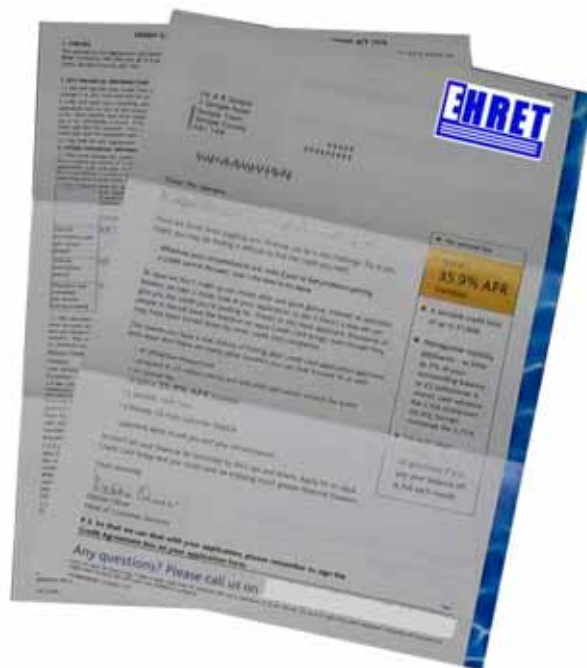
El. connection	Weight	Dimensions L x W x H
3 X 400 V / 32 A	1,640 kg	2.0 m x 1.4 m x 1.7 m



Split & Merge Module SPM



- Station for conducting two (optionally more) webs under web tension with register accuracy
- You can use it to double the web of one-sided printed or personalized webs, even at maximum velocity
- Lengthwise & crosswise register is performed manually by means of adjustment spindles
- Redirection of the web is airbag supported with integrated blower
- Static fixation is necessary for production with chip-out
- Both productions: pin less/pin feed possible.
- LCUM (length cut unit for dividing the web) integrated - supplementary LCUM (i.e. for the side trim) as an option
- Optional: gutter cut (min. 4 mm) in running direction possible



For personalized mailings, statement printing etc.



Specifications

- max. production speed: 300 m/min
- max. web width: 400 / 520 / 720 / 1020 mm
- min. web width: 150 mm
- max. superimposing distance: 300 mm
- min. superimposing distance: 0 mm
- paper quality: 36 - 250 gr./m²

Connection	Weight	Dimensions L x W x H
Vac. pump/UW/VC	650 kg	1.3 m x 1.3 m x 1.2 m

*Overlaying of (two) different pages
printed side by side at full speed
with register accuracy!*

Plow Fold Station

PFS



- The plow fold is adjustable in 5 degrees of freedom to achieve maximum folding accuracy (also with critical papers)
- The unit is equipped with four adjustable folding assistance tools
- The fold head may be turned by 180°, so that you can fold on operation side as well as gear side
- Integrated motorized LCS (length cutting station) for the side trim of the web
- Optionally there are also fold heads available which are turnable (180°) to allow them to fold upwards as well as downwards. This feature is mainly used in the second plow fold unit to be able to produce C-folds as well as Z-folds (PFS T-Model)
- Optional: second plow fold head for two-up production (as shown on the picture)
- Optional: ALP (additional length perforation) for thick products
- Optional: motorized folding head adjustment

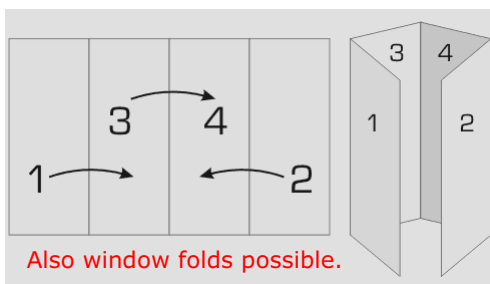


Folding in length direction at full speed!
No more 90°-jobs!
For i. e. 4-pagers,
8- or 16- pagers,
or (book) signatures!

NEW: Double Module PSM 520

(PFS Plow Folder & SPM Split & Merge – both functions in one compact module)

Optional: Integrated Vacuum Box (Digital Printing in-line)
 Optional: Integrated In-feed (Digital Printing in-line)



Specifications

- max. production speed 300 m/min
- max. web width 400 / 520 / 720 / 1020 mm
- min. web width 150 mm
- paper quality 36 - 160 gr/m²
- folding accuracy ± 0.3 mm (depending on web tension & web guide)
- max. folding width = half web
- min. folding width = 20 mm

Connection	Weight	Dimensions L x W x H
Unwinder	650 kg	1.7 m x 1.4 m x 1.3 m

Rotary Die Cut Unit

RDC



- Including appropriate register control and very short set-up time
- With magnetic cylinder for flexible die cutting plates
- Perforations / die cutting of nearly all products/shapes
- Cylinder changed by changing the magnet cylinder
- Own servo-drive for perfect die cutting accuracy
- Pressure dispenser with security lift & pressure display
- Optional window function
- Replacement cassette i.e. for file hole punching optionally available
- Optional: VSN vacuum controlled die cutting cylinder for processing complicated shapes



For Label production with integrated Star Wheel Delivery.

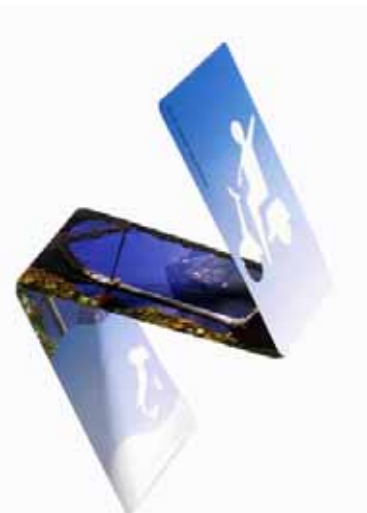


For value added mailings and labels.

Specifications

- max. production speed 300 m/min
- die cutting accuracy ± 0.2 mm
- max. web width 400 / 520 / 720 / 1020 mm
- manual side register ± 5 mm
- min. web width 100 mm
- paper quality 36 gr/m² up to card board 0.6 mm thick
also foil can be processed
- cylinder admeasurements 16" – 36" available
- die cutting crack (Standard) 0.48 mm

El. connection	Dimensions L x W x H	Weight
3 X 400 V / 32 A	1.3 m x 1.5 m x 1.7 m	1,400 kg



Scoring & Die Cut Unit

SDC



- For all kinds of folded boxes & value added mailings - directly from the roll. (cigarette boxes, food boxes, pharmaceutical boxes etc.)
- Including appropriate register control.
- With magnetic cylinder for flexible die cutting plates.
- Perforations / die cutting of nearly all products/shapes.
- Cylinder changed by changing the magnet cylinder.
- Replacement cassette i.e. for file hole punching optionally available.
- Own servo drive for perfect scoring & die cutting accuracy.
- Pressure dispenser with security lift & pressure display.
- Exchange cassette i.e. for file hole punching optionally available.
- Optional window function.
- Optional: VSN vacuum controlled die cutting cylinder for processing complicated shapes.



Specifications

- | | |
|--|--|
| - max. production speed | 300 m/min |
| - die cutting accuracy | ± 0.2 mm |
| - max. web width | 400 / 520 / 720 / 1020 mm |
| - manual side register | ± 5 mm |
| - min. web width | 100 mm |
| - paper quality | 36 gr/m ² - card board 0.6 mm |
| - also card board & foil can be processed! | |
| - cylinder admeasurement | 16" - 36" available |
| - die cutting crack | (Standard) 0.48 mm |



El. connection	Dimensions L x W x H	Weight
3 X 400 V / 63 A	2.2 m x 2.5 m x 1.8 m	2,900 kg

Core Product – VC Series Patented Variable Sheeter



Fully electronic patented **HIGH END Sheeter** with variable cut out for in-line and off-line finishing

- Fully variable in format and cut-out size (stepless) for production speeds up to 300 m/min with control of the chip-out.
- Our VC Series provides to you the widest range of products to be converted in the market from light weight paper up to very thick materials (i.e. plow folded signatures for book production) – even foil can be processed.
- Format & cut-out size can be changed during production without any mechanical effort.
- Patented shear cut method in cross & length cut guarantees a high quality cut - supported by heated side frames – more than 150 times approved worldwide.
- Cut-out is securely sucked and blown off into the external exhaust system.
- Sheeter can be run either off-line as shown or in-line with a (i. e. digital/offset) press or web finishing system – interfaces for all leading manufacturers available.
- Industrial design guarantees a very long life time – and our special carbide knives can make up to 30 million cuts per blade before having to be reground.
- High automation at minimum set-up times – whole finishing line can be operated by a single person.
- Manually operated waste deviation as a standard – synchronized waste deviation as an option.



SPECIFICATIONS	VC 400 C	VC 520 C	VC 720 C	VC 1020 C
max. production speed	300 m/min. (depending on paper quality and format length)			
max. web width	400 mm (15.7")	520 mm (20.5")	720 mm (28.3")	1020 mm (40.2")
min. web width	150 mm (5.9")			
paper quality	36 – 330 gr./m² / optional more			
cutting accuracy crosswise & lengthwise	± 0.2 mm			
sidewise web guide accuracy	± 0.2 mm			
format length stepless	4" – 26" / optional more			
format stepless with cut-out	6" – 26" / optional more			
cut-out size stepless	(without or) 3 mm (1/8") – 80 mm / up to 150 mm as an option			
electrical connection	3 X 400 V / 63 A			
weight	2,150 kg	2,100 kg	2,300 kg	2,500 kg
dimensions L x W x H	2.3 x 1.7 x 1.7 m	1.6 x 1.8 x 1.7 m	1.6 x 2.0 x 1.7 m	1.6 x 2.3 x 1.7 m

→All our sheeters are also available without cut-out – all given specifications refer to our standard equipment.

Core Product – VC 400 C Pharma Sheeter



Pharma Sheeter VC 400 C with integrated unwinder & paper lift for rolls up to 400 mm / 15.7" web width – for high-speed one-up production.

■ **Productivity: 32.000 - 42.000 finished products per hour (per stream).**

- Sheet & stack or
- In-line with folder, pressing station (i. e. glue application) and delivery.



- Fully variable in format and cut-out size (stepless adjustable).
- Change in format & cut-out size fully electronic – no mechanical effort.
- Patented shear cut method in cross & length cut guarantees a high quality cut.
- Cut-out is securely sucked and blown off into the external exhaust system.
- Sheeter can be run either off-line as shown or in-line.
- For critical paper down to 36 gr./m².
- Whole line incl. folder & delivery run by a single operator.
- Integrated Unwinder with electric paper lift, dancer controlled servo motor and splice table.
- With air supported paper flow.
- Optional: Bar Code Reader Control System.
- Optional: Paper Jam Detection System.
- Optional: Print Inspection System.



Core Product – VC 520 C High-End Sheeter



Patented high-end sheeter VC 520 C for all kinds of mailings, business forms, newspapers, books, etc. – by far the most variable and fastest industrial high-end sheeter on the market with variable format as well as variable chip out. Available from 400 mm to 1020 mm web width.

■ **Productivity: 36.000 - 44.000 finished products per hour (per stream)**



- Fully variable in format and cut-out size (step less adjustable!).
- Change in format & cut-out size fully electronic – no mechanical effort.
- Patented shear cut method in cross & length cut guarantees a high quality cut.
- Cut-out is securely sucked and blown off into the external exhaust system.
- Sheeter can be run either off-line as shown or in-line.
- For critical paper down to 36 gr./m².
- Whole line incl. folder & delivery run by a single operator.



Core Product – SVC 521 C DIGITAL SHEETER



- This electronically driven sheeter is completely variable in format & cut-out size (both are changeable on the fly) for maximum precision.
- The format size or cut-out size is changed simply by typing in the format and chip-out length on the touch panel – without any mechanical adjustment.
- Cross & length cut work in the shear cut method, which guarantees a high quality cut - supported by heated side frames.
- The cut-out is securely sucked and blown off into the external exhaust system regardless of speed.
- The sheeter can be run either in-line behind any (digital) printer/web finishing system or off-line (with an unwinder for finishing rolls or with a pile infeed table for cutting fan-folded stacks).
- Operator friendly design with excellent access to all areas (i.e. via a moveable cutting unit), and very few wearing parts (i.e. vacuum belts only in the outfeed).



Including:

- Window function WD 520
- Internal exhaust-kit VSN
- 3 LCUM for edge trimming and center cut
- Job memory for storing 100 Jobs
- Air supported paper transport
- Motorized length cut LCM

Optional:

- Interfaces for all (digital-) printers IFD, folders IFF etc.
- Upgrade up to 80" format length
- VC-TP for thick products up to 450 gr./m² (300 lb)
- Print mark reader from top and bottom
- Infeed without web tension
- Pin-feed
- Vacuum buffer VCB for in-line solutions



Specifications:

- | | |
|---------------------------------------|---|
| - max. production speed | 185 m/min (615'/min.) |
| - max. web width | 520 mm (20.5") |
| - min. web width | 130 mm (5.1") |
| - paper quality | 36 - 330 gr./m ² |
| - cutting accuracy cross & length | ± 0.2 mm (± 1/128") |
| - sidewise web guide accuracy | ± 0.2 mm (± 1/128") |
| - format length stepless | from 3" - 40" (optional up to 80") |
| - format length stepless with cut-out | from 5" - 40" (optional up to 80") |
| - cut-out size stepless | without or from 3 - 80 mm (1/8" - 3 1/8") |

**Brand New
DIGITAL ECO-
SHEETER!!!**

<u>El. Connection</u>	<u>Weight</u>	<u>Dimensions L x W x H</u>
3 x 380 V / 32 A	1,400 kg	1.4 m x 1.4 m x 1.6 m



NEW Digital Unwind Unit UW 2 / Rewind Unit RW 2 with integrated Vacuum Buffer for in-line and off-line production

This unwind unit for large size rolls is driven by a dancer controlled servo motor. This unit can be used either in front of all digital printers or web finishing lines with the following features:

- Pneumatic expanding unwind shaft
- Dancer controlled servo motor with easy dancer setup position
- Applicable for lines with or without web tension (digital printers)
- Constant web tension
- Electric paper lift
- Easy Operation via touch panel
- Optional: web guide for a perfect sidewise register
- **Also available: Digital Rewinder RW 2**

This unwind unit is of solid industrial design and adheres to the following **specifications**:

- max. roll diameter 52" = 1.32 m
- core diameter standard 70 mm (optionally: any larger diameter)
- max. production speed 200 m/min
- web width 100 - 520 mm
- paper quality 36 gr/m² - 400 gr/m²
- air pressure: 6 bar
- el. connection: 3 x 400 V / 32 A



NEW Double Module PSM 520 Plow Folder + Split & Merge with integrated Vacuum Buffer & in-feed system, for in-line and off-line production

Split & Merge Production:

- Station for conducting two (optionally more) webs under web tension with register accuracy
- You can use it to double the web of one-sided printed or personalized webs, even at maximum speed (i.e. mailings, statement printing etc.)
- Lengthwise & crosswise register
- Redirection of the web airbag supported with integrated blower
- Static fixation STC necessary for production with chip-out
- Both productions: pin less/pin feed possible
- LCUM (length cut unit for dividing the web + side trim) integrated
- Optional: gutter cut (min. 4 mm) in running direction

Plow Fold Production:

- The plow fold is adjustable within 5 degrees of freedom to achieve maximum folding accuracy (also with sensitive papers)
- The unit is equipped with four adjustable folding assistance tools
- The fold head may be turned by 180°, so that you can fold on operation side as well as gear side
- Integrated motorized LCS length cutting station for the side trim of the web
- Optionally there are also fold heads available which can be turned (180°) to allow them to fold upwards as well as downwards. This feature is mainly used in the second plow fold unit to be able to produce C-folds as well as Z-folds (PFS T-Model)
- Optional: second plow fold head for two-up production
- Optional: ALP additional length perforation
- Optional: motorized folding head adjustment

Specifications

- max. production speed: 300 m/min
- max. web width: 520 mm
- min. web width: 150 mm
- max. superimposing distance: 300 mm
- min. superimposing distance: 0 mm
- paper quality split & merge: 36 - 250 gr./m²
- paper quality plow folder: 36 - 160 gr./m²
- folding accuracy: ± 0.3 mm
- max. folding width: = half web
- min. folding width: = 20 mm



NEW Fully Electronic Patented Digital Sheeter SVC 525 C with completely variable format & cut-out

- This electronically driven sheeter is **completely** variable in format & cut-out size (both changeable on the fly)
- Change of format size or cut-out size is simply done by typing in the format and chip out length via touch panel - without any mechanical adjustment
- Cross & length cut work in the shear cut method, which guarantees a high quality cut - with heated side frames
- The cut-out is securely sucked and blown off into the external exhaust system regardless of speed
- The sheeter can be run either **in-line** behind any (Digital) Printer/Web Finishing System or **off-line**
- Operator friendly solid industrial design with excellent access to all areas (i.e. via a moveable cutting unit) and very few wearing parts

Including:

- Touch Panel for an easy operation
- Window-Function WD 520
- Internal Exhaust-Kit VSN
- 3 LCUM for edge trim and center cut
- Pin-feed + Pin-less integrated
- Job Memory for storing 100 Jobs
- Air supported paper transport

Optional:

- Interfaces for all (Digital-) Printers IFD, Folders IFF etc.
- Upgrade up to 80" format length
- VC-TP Upgrade for thick products up to 450 gr./m²
- Print mark reader from top and bottom
- Infeed without web tension option
- Synchronized Waste Deviation
- Bar Code Reader Control System

Specifications:

- max. production speed 185 m/min (615 ft./min.)
- max. web width 520 mm (20,5")
- min. web width 130 mm (5,1")
- paper quality 36 - 330 gr./m²
- cutting accuracy cross & length ± 0,2 mm (± 1/128")
- side wise web guide accuracy ± 0,2 mm (± 1/128")

Format and cut-out sizes:

- format length step less from 3" - 40" (optional up to 80")
- format length step less w. cut-out from 5" - 40" (optional up to 80")
- cut-out size step less without or from 3 - 80 mm (1/8" - 3 1/8")

COMPLETELY VARIABLE



Shingle Stream **SSD** Star Wheel **SWD**



- For better handling in the stacking process at high speeds.
- Shingling process is supported by a rotating batcher shaft and an additional motor for sidewise joggers to obtain a perfect stacking accuracy.
- Servo-driven & vacuum controlled.
- Shingling grade can also be adjusted during production.
- Output vertically adjustable.
- Optional: **DSS** (servo-driven shingle stream divider) to create a defined gap for card board inserting or a proper stack change.
- Optional: **SSC** (shingle stream compaction).
- Optional: **VOD** (vacuum over guiding device) for long sheets up to 40".
- Optional: **CBI** (card board inserter).



Specifications

- max. production speed 300 m/min
- paper quality 36 up to 400 gr/m²
- max. web width 400 / 520 / 720 / 1020 mm
- min. web width 150 mm
- shingle grade variation 3% up to 30%
- vertical output adjustment between 900 – 1300 mm
- direct speed synchronization to the previous machine



- For all critical products (foil, labels, static products etc.).
- For better handling in the stacking process at high speeds.
- Servo-driven & vacuum controlled – very short setup time as all products are vacuum controlled at the entry of the star wheel.
- Synchronized with the sheeter/die cut unit/format length.
- Optional: **CBI** (card board inserter).
- Optional: **SPC** (spreading conveyor) for nested products.

This unit takes the single products and places them on top of each other at a defined degree of overlapping. The star wheel has a special design to handle even complicated shaped products within the traces of the wheel. The products are also kept in position during the rotation, so that there is no uncontrolled movement, turning or shifting inside the star wheel transport. There is no need to change or readjust the star wheel when changing format length; only mechanical side adjustment is necessary for products of different widths. The star wheel is also automatically synchronised to the format length of the product and driven by a separate servo, so no gear change is necessary for different formats.

Specifications

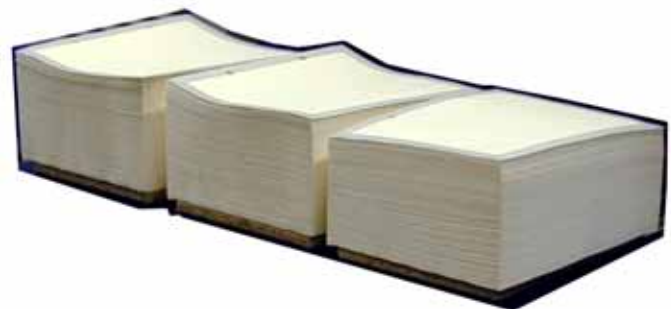
- max. production speed 300 m/min
- paper quality 36 up to 400 gr./m²
also for foil and card board
- max. web width 400 / 520 / 720 / 1020 mm
- min. web width 150 mm
- shingle grade variation 3% up to 30%
- direct speed synchronization to the previous machine



Batcher Stacker ST 200



- For perfect stacking accuracy.
- Fully electronic programmable PC-controlled stacker.
- Fast stacking cycle times.
- One or two up production - optional up to 4 parallel.
- Interfaces for wrapping, stitching & other subsequent processing available.
- Counter resettable for numbered products.
- Also available: stacker for stripes/labels.



Specifications

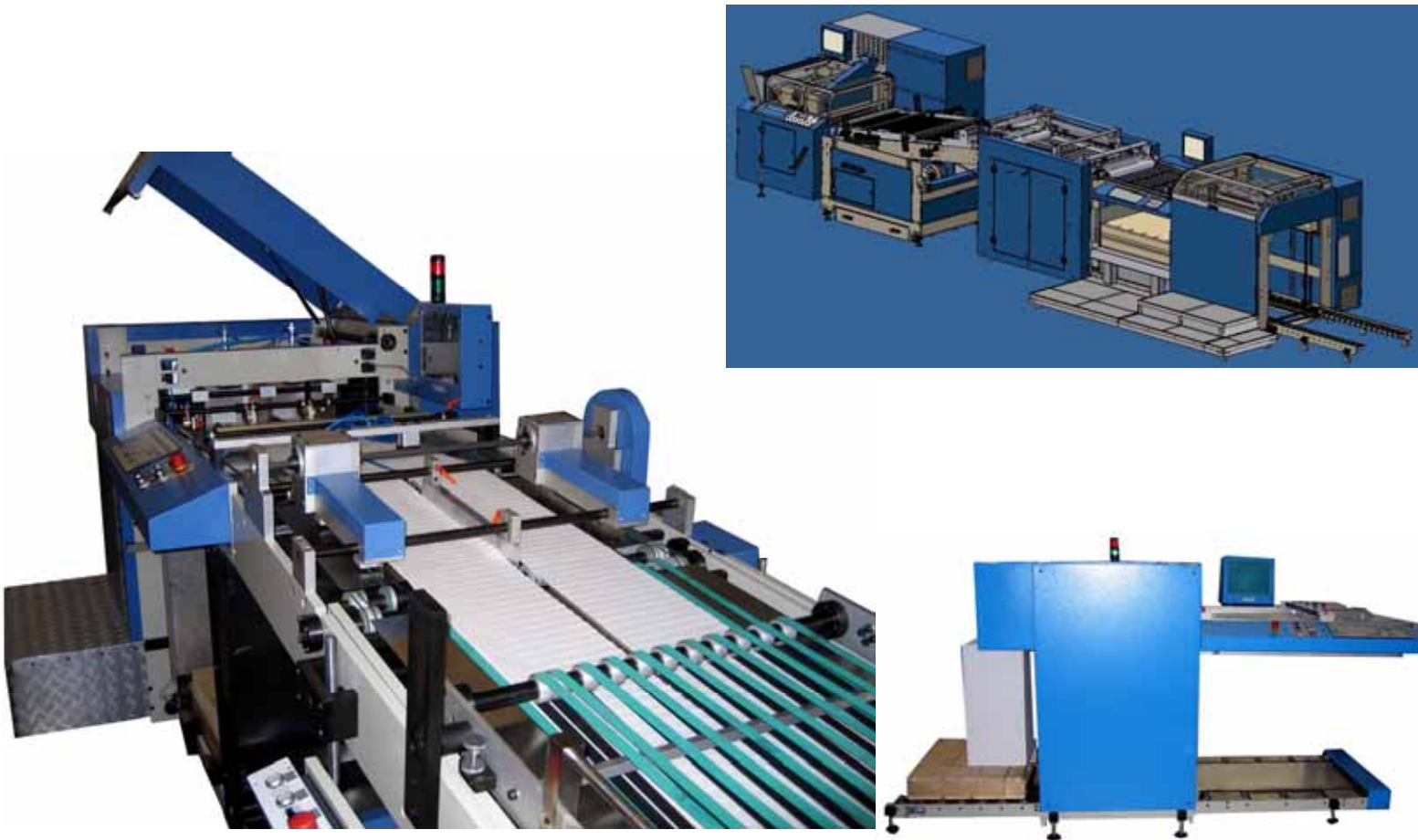
- | | |
|------------------------------------|--|
| - max. production speed | 300 m/min |
| - max. web width | 400 / 520 / 720 / 1020 mm |
| - min. web width | 150 mm |
| - paper quality | 36 gr/m ² up to 250 gr/m ² |
| - format length step less | 4" up to 26" |
| - stack heights | min. 50 pages, max. 200 mm |
| - stacking accuracy cross & length | ± 0.5 mm |

El. connection	Weight	Dimensions L x W x H
3 X 400 V / 16 A	1,300 kg	2.4 m x 1.3 m x 1.4 m

High Pile Stacker SHP 800



- For perfect stacking accuracy.
- Fully electronic programmable PC-controlled stacker.
- High pile stacker for large (single) sheets to be stacked directly onto pallets.
- Including an automatic pallet change.
- Incoming shingle stream is formed to a perfect stack by cross and longitudinal pushers.
- For changing the stack the shingle stream is interrupted automatically.
- Operator has only to provide an empty pallet at the input position and take out the full pallet before the next pallet change.
- A magazine for empty pallets as well as a long output conveyor are optionally available.
- Optional: vacuum over guiding device for long sheets.



Specifications

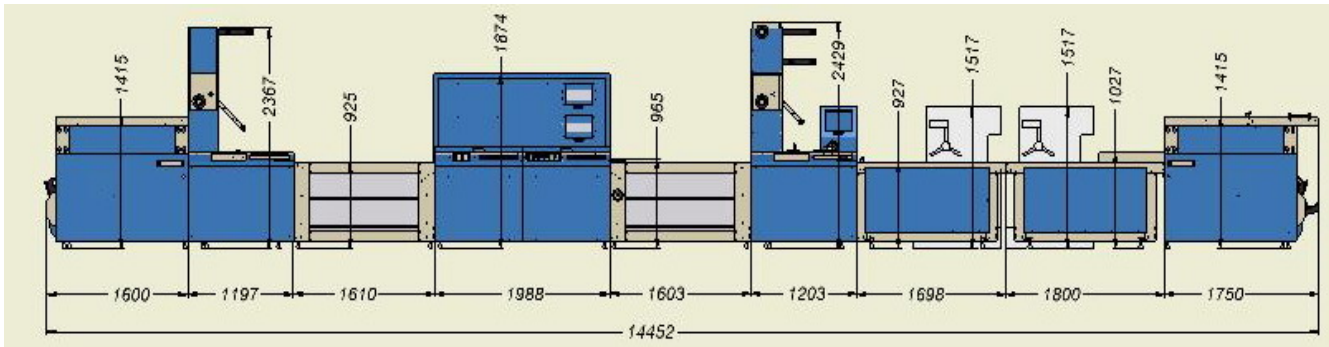
- | | |
|--|--|
| - max. production speed | 300 m/min |
| - max. sheet width | 400 / 520 / 720 / 1020 mm |
| - min. sheet width | 150 mm |
| - min. sheet length | 150 mm |
| - paper quality | 36 gr/m ² up to 250 gr/m ² |
| - sheet length step less | 4" up to 26" (optional up to 40") |
| - stack heights
(optional up to max. 1300 mm) | min. 50 pages, max. 800 mm |
| - stacking accuracy cross & length | ± 0.5 mm |

El. connection	Weight	Dimensions L x W x H
3 X 400 V / 16 A	1,200 kg	2.9 m x 1.9 m x 1.9 m

Complete Solution Booklet Label Production



- Unwinder with integrated splice application and web guide.
- Two hot-melt-area-coating-systems with four glue heads.
- Booklet-feeder system with chain conveyance for high-precision booklet positioning.
- Lamination station with stretch and press roll for the recirculated lamination foil.
- Input loop module/loop 1.
- Special rotary flatbed die cutting station incl. servo drive and register control.
- Output loop module/loop 2.
- Matrix rewind station/infeed with servo drive and possibility for edge trim.
- Optional: special Z-endless-folder for processing CD's or DVD's laminated together with a booklet.



In addition to the rewind unit, we are offering a special Z-Folder for CD or DVD Production.

Specifications:

- max. width of booklet	330 mm
- min. width of booklet	120 mm
- max. length of booklet	320 mm
- min. length of booklet	50 mm
- max. web width	350 mm
- min. web width	150 mm
- max. diameter of the unwinder	52"
- max. weight of the roll	900 kg
- diameter of the core shaft	76 mm
- pneumatic core shafts	
- web tension	0.5 – 10 kg
- max. production speed	50 m/min.



Contact Information



Contact Information

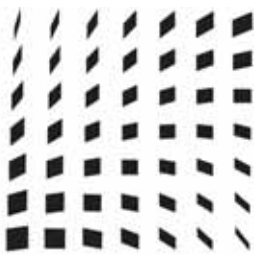


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