# PRINECT USER DAYS

8th and 9th October 2014

5. International Prinect User Days, October 8<sup>th</sup> and 9<sup>th</sup>, 2014 News for Folding Carton and Label Production



Sabine Roob, Sebastian Nickel



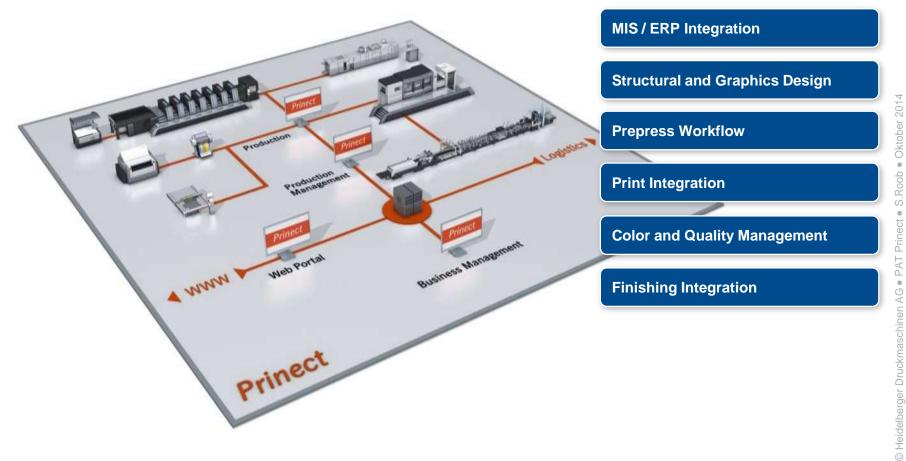


#### Agenda

- 1. Prinect for Packaging
- 2. DCS 340 with Prinect Digital Front End Label
  - Demo: Variable Data Creation
- 3. Fast creation of design and estimation data
  - Demo: Package Designer Integration
- 4. Fast gang form creation
  - Demo: New features of Sheet Optimizer
- 5. Overview new features in P2015 for carton and label production
  - Demo

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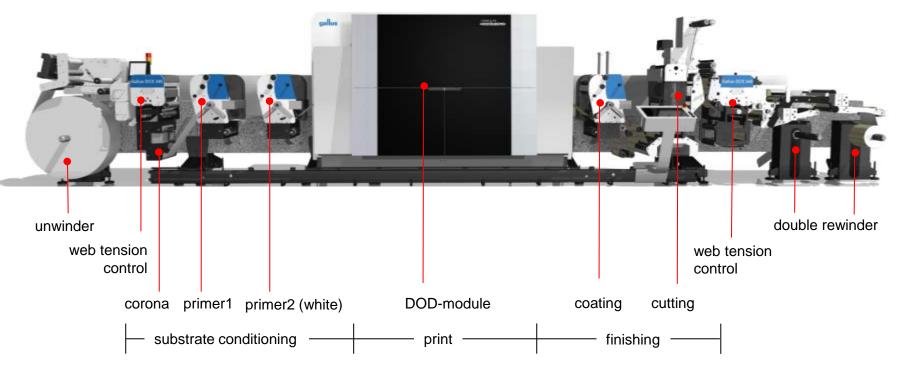
#### Prinect Solution for Folding Boxes & Label Production Production in Offset – from Design to Finishing!



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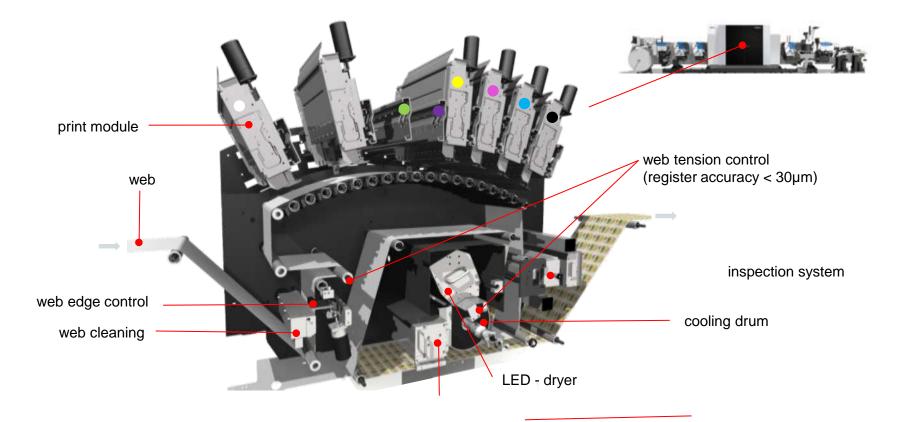
New

#### Gallus DCS 340 New Digital Label Converting System



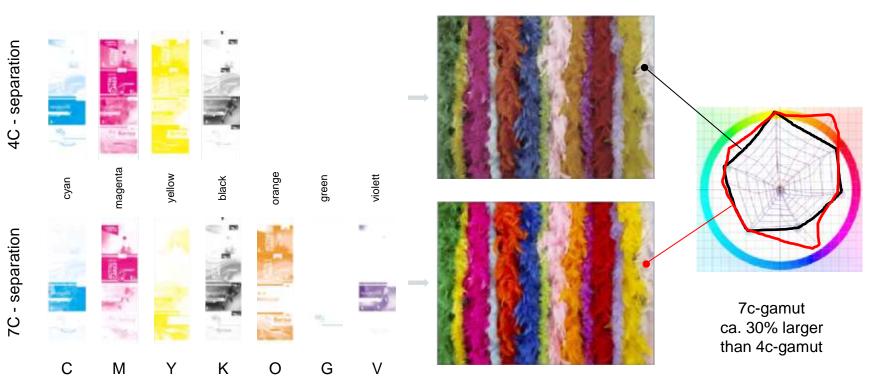


#### Gallus DCS 340 **Digital Print Unit**



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#### Gallus DCS 340 Brilliant colors and large color range with 7c-separation



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#### Gallus DCS 340 Highest Print Quality with 1200 dpi



natural skin tones

sharp lines

sharp characters

#### Prinect Digital Front End Label **General Overview**







#### Prinect DFE-Label

Data preparation in highest quality

- Fast output of job data (Prepared Job or 'single' PDF)
- Preflight & corrections in PDF ٠
- Adaption to used inks & spot • color adaption
- Variable Data Printing & ٠ Creation



#### HMI

Machine Control UI

- Machine settings
- Job queue control
- Control print heads
- Machine feedback

#### Prinect Digital Front End Label **Data Delivery**

- Take over prepared data from any workflow (e.g. Esko)
  - Imposed PDF of whole segment •

or

• PDF(s) of single articles







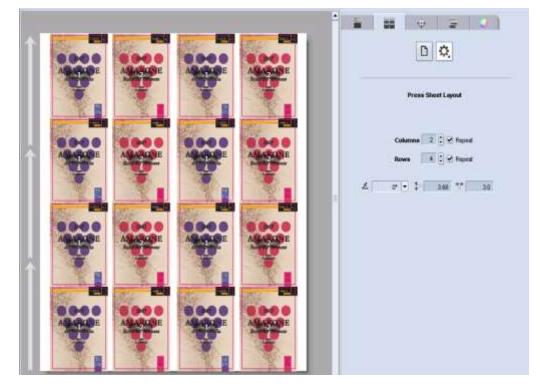




#### Prinect Digital Front End Label Output of «single» PDF(s)

Work Steps

- Create job 1.
- 2. Prepare digital print
  - a. Select substrate
  - b. Layout/Impositioning
  - c. Screening



#### Prinect Digital Front End Label Spot Color Adaptation

Color defined by document



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#### Prinect Digital Front End Label **Spot Color Adaptation**

- Customer brings a sample with a slightly different color
  - Measure color and take measured values  $\succ$

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		Übernehmen	bbrechen

#### Prinect Digital Front End Label Spot color matching

- If customer requires a slightly different color, it is possible to select from surrounding colors
  - Steps of modification can be • defined in both directions – Lightness and Color Cast

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#### Prinect Digital Front End Label Spot color matching

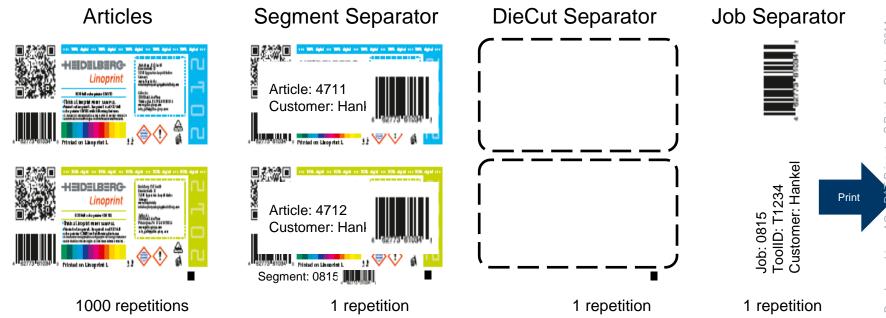
• New values can be stored for repeat or similar jobs

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#### **Prinect Digital Front End Label** Identification with CERM and Prinect Prepress

Print Separators before and after each Job / Segments •



#### Prinect Digital Front End Label Variable Data Printing

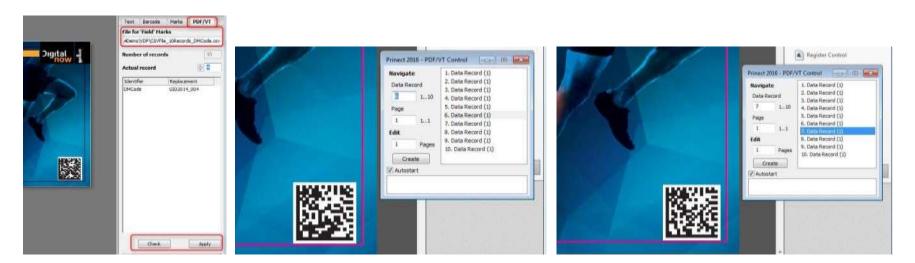
Datamatrix code with individual number on each one-up ۲





#### **Prinect Digital Front End Label** Variable Data Printing

- **Output as PDF-VT** •
- Check with PDF-VT Control ٠





Demo Variable Data Creation



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#### Extended Workflow with Prinect and CERM Integration

#### Prinect:

- Extended prepress functionality for digital label printing
  - Automated and interactive prepress functionality for data preparation
  - Color management for most challenging requirements
  - Sophisticated layout functionality with additional information
- High transparency of the entire production workflow
  - Analysis of shop floor data

**CERM** - Complete and dedicated MIS for narrow web printers

- Streamlined administration and prepress:
  - including a web front end for the brand owners and sales representatives
  - with a strong integration with prepress and production software
  - and a focus on automation of repeat jobs
  - in order to reduce errors and save costs in administration and production



# Prinect 2015 – News in Packaging

- 1. Fast estimation with production data: Package Designer Integration
- 2. Fast and easy gang job calculation with Sheet Optimizer
- 3. News for efficient label and folding carton production

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## Integration of structural Design

New Prinect task "CAD"

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• Request either from Cockpit or MIS (e.g. Boxsoft)

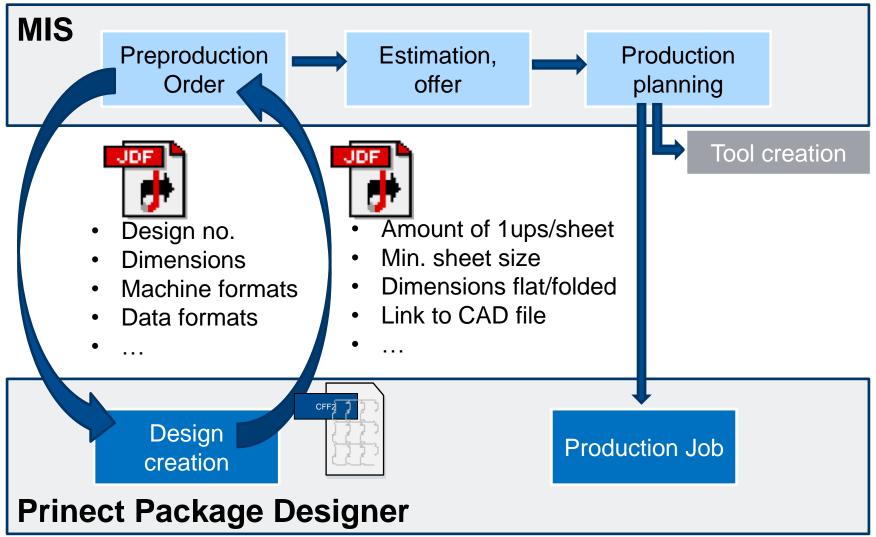
## CAD Request in Cockpit

- Creating new Designs
  - Standard Design can be selected in the MDS from Package Designer libraries
  - Direct input of ABH dimensions
  - Material can be selected likewise

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ihape Name:	test		
Construction Code:	EVF11001		Select
lox Dimensions:			
A (Width):	60	mm 💌	
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### Automated structural Design Workflow with MIS





### Advantages of Integration of Package Designer

- Data has to be captured only once
- Exact production data for estimation in only seconds
- CAD data are directly available to prepress and production
- All data are saved and archived with the job > directly available for repeat jobs at any time

Name: 1 Number: Gu	tav_Map#Gustav#96235_G#96235#Map_G1	
Product Description	CAD Documents 1ups Imposition Proof	
C 2 End product	Product Type Product Code Packaging Article Number: 96235_6 3D View: 10 Shape ID: 96235 Shape Name: Map_6	
	Internal Comments	



Demo Package Design Integration



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## Prinect Signa Station Sheet Optimizer

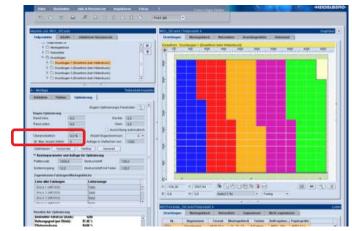
# Higher reliability and more convenience

- Better distribution on sheet
- Limitation of articles per sheet
- Warning when the delivery quantity from the PDF name is misinterpreted
- Optimization results can be saved, exported and printed

#### No limitation:



#### Limitation to 5 articles:





**Demo Sheet Optimizer** 



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#### New Features for Label Production Automation of order creation

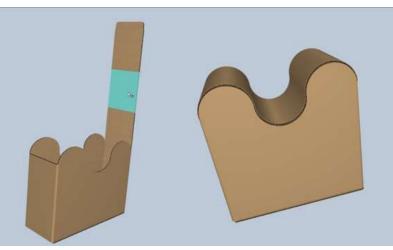
- Easy creation of order lists in e.g. Excel with
  - Article name and shape
  - Amount ٠
  - Product type ٠
  - Product code
  - ٠ . . .
- Order info in csv-file can automatically create different gang jobs in cockpit
- Complete workflow automation is possible with Smartautomation •

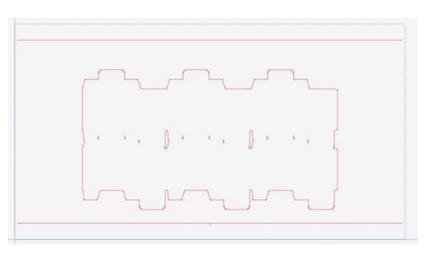
#### Enormous time saving during job set up!



## Structural Design with Prinect Package Designer

- New features for 3D simulation
  - Curved shapes
  - Dimensions in 3D
- 3D for secondary boxes / boxes for external objects
- New library for labels
- Fast creation of varnishing blankets
- Driver for Kongsberg Plotters have been implemented



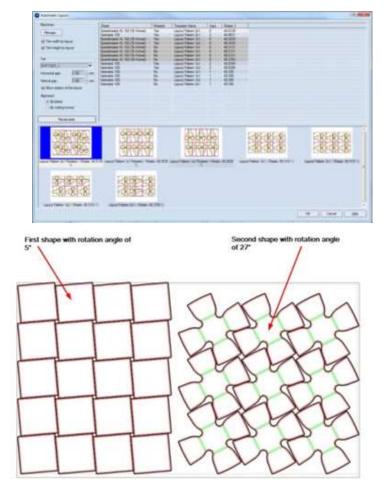


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# Optimized Layout Creation in Package Designer and Signa Station Packaging Pro

- Automated layout creation
- Different rotation angles for various shapes
- Best usage of sheet
- Better pressure distribution for rotative die cutting

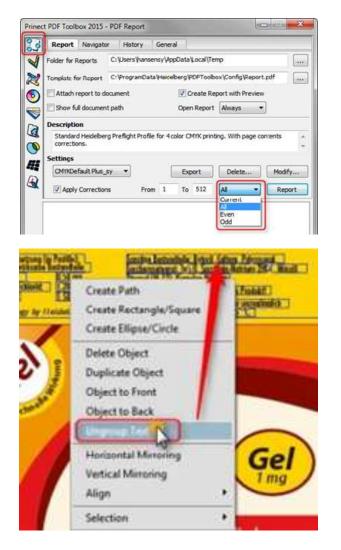




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## New Features for 1-up Processing in PDF Toolbox

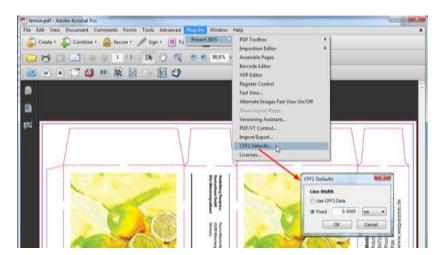
- Preflighter/ PDF-Report
  - Definition of preflight areas
  - Expanded checking for spot colors
  - Convert text into graphics
  - Convert comments into content
- Object Editor
  - Editing in wire frame mode
  - Aligne to the selected object's bounding box
  - Dividing text into individual characters





## New Features for 1-up Processing in PDF Toolbox

- Page Assembly
  - Selectable line width for imported CFF2 files



- Barcode Editor
  - Triangle symbol as limitation for binary barcodes
  - New "EMS code"(= "Pharma Wide")
  - New geometry features
  - Text marks



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### Improved Output, Page Proofing

- Page Proofing
  - Adaptation of color sequence for reverse foil printing – especially for white

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- Improved Output
  - Dedicated calibration curve for each color

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# Enhancements for Spot Color Replacement with Multicolor

- Spot color replacement can be limited to images only
- Delta E table can be sorted to the largest/ smallest deviation
- Easy generation of result report

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PANTONE 118 C	59.0	7.5	70.6	5.6	27.2	100.0	26.5 3.31	
PANTONE 137 C	75.9	32.1	84.1	0.0	42.8	100.0	0.0 5.64	
PANTONE 138 C	62.6	5 36.2	79.7	0.0	52.0	100.0	0.0 3.88	1
PANTONE 1505 C	66.7	56.6	88.1	0.0	60.8	100.0	0.0 7.42	
PANTONE 151 C	67.6	5 50.7	80.0	0.0	59.8	100.0	0.0 6.36	
PANTONE 165 C	64.1	59.8	69.3	0.0	71.5	100.0	0.0 7.14	
PANTONE 1788 C	53.3	73.1	45.4	0.0	95.7	85.3	0.0 5.19	
PANTONE 182 C	82.5	24.9	2.6	0.0	32.0	11.6	0.0 3.87	
PANTONE 185 C	49.5	5 75.7	43.5	0.0	98.6	82.3	0.0 2.60	
PANTONE 2627 C	17.9	32.2	-34.2	79.5	100.0	6.0	28.6 4.49	
PANTONE 272 C	52.4	13.6	-39.0	60.0	54.0	0.0	0.0 2.87	
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And many more ...

- Part Production
  - Pre-produced product parts can be transferred directly to repeat jobs without dedicated warehouse management software
- Fast identification

Prinect Integration 2015

- Automatic job selection at the press via barcode
- Easy pallet identifications with customizable pallet sheets







#### Demo Label and Folding Carton Production



# PRINECT USER DAYS

8th and 9th October 2014

International Prinect & Digital Sales Conference 2014

#### Thank you for your attention!



