EN

durst

Delta Series

Corrugated Packaging & Display Printing


80
Years
Experience
Innovation
Sustainability

Durst. Advanced Digital Production Technology

Durst is a world-leading manufacturer of advanced digital production technologies. In the active business areas, Durst is the first choice and a preferred partner for the transformation and digitization of industrial production processes. Durst is a family company with an 80-year history, where the values are focused on innovation, customer orientation, sustainability and quality.

Durst location in Brixen,
Italy

Durst is the world's leading supplier of digital inkjet printer systems for industrial applications. High productivity, printing quality, reliability and flexibility are the unique features of Durst inkjet technology across all industries.
In the last ten years Durst has played a major role in adapting digital printing technologies for the ceramics, label, large format, textile and wood sectors.
All this experience and technological innovation have been incorporated into the new ›Corrugated Packaging & Display Printing‹ segment.

Durst location in Lienz,
Austria

Durst Corrugated Packaging & Display Printing

Durst has been supplying Multi-Pass inkjet printing systems in the Large Format Printing segment for a number of years. As part of the range of media, these systems not only print on POP media but also on corrugated displays and packaging materials using UV inks. With Corrugated Packaging & Display Printing, Durst is now moving Multi-Pass printing systems with a range of optional equipment to an independent segment in order to adapt its product portfolio specifically to the requirements of corrugated cardboard producers and converters.

At the same time, Durst has developed the Single-Pass printing system Delta SPC 130, which enables outstanding print quality and flexibility, together with extremely high productivity and integration with existing product lines. This allows, for example, shelf-ready and retail-ready packaging in small and medium-sized job runs to be produced economically, and also makes it possible to create samples, customization and versioning immediately.

By developing a water-based ink system, Durst is already meeting future demands for sustainable packaging products in the retailing field.

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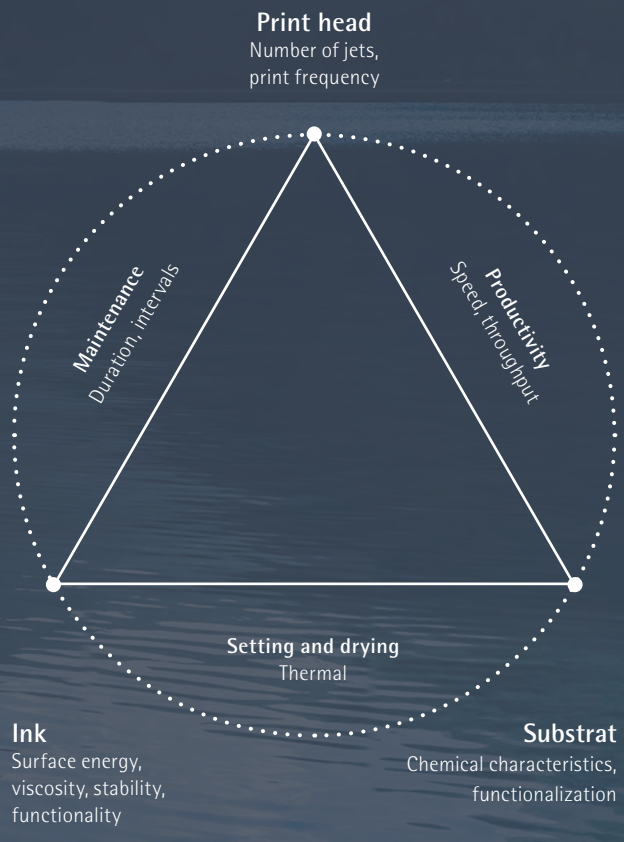
Durst Water Technology

Durst Water Technology

Durst Water Technology is a long-term strategy designed to offer digital printing systems with water-based, non-hazardous inks as a sustainable alternative to UV- and solventbased printing systems in all segments. The Delta SPC 130 and Delta WT 250 use the Durst Water. Technology inks in keeping with the quality, productivity and environmental demands of corrugated cardboard manufacturers and converters. They represent the next technological milestone in water-based ink systems, as they allow premium quality, odorless, abrasion-resistant, glossy and lightfast end products to be produced in a single process.
Durst Water Technology means that pre-treatment, interim drying and laminating steps can be saved.

Thanks to its core competences in machine engineering, ink technology and print head technology (the magical triangle of inkjet printing), Durst stands for maximum print quality, uptime and productivity with minimum ink consumption.



Lightfast

Premium Quality

High gloss level

Odorless

Flexible

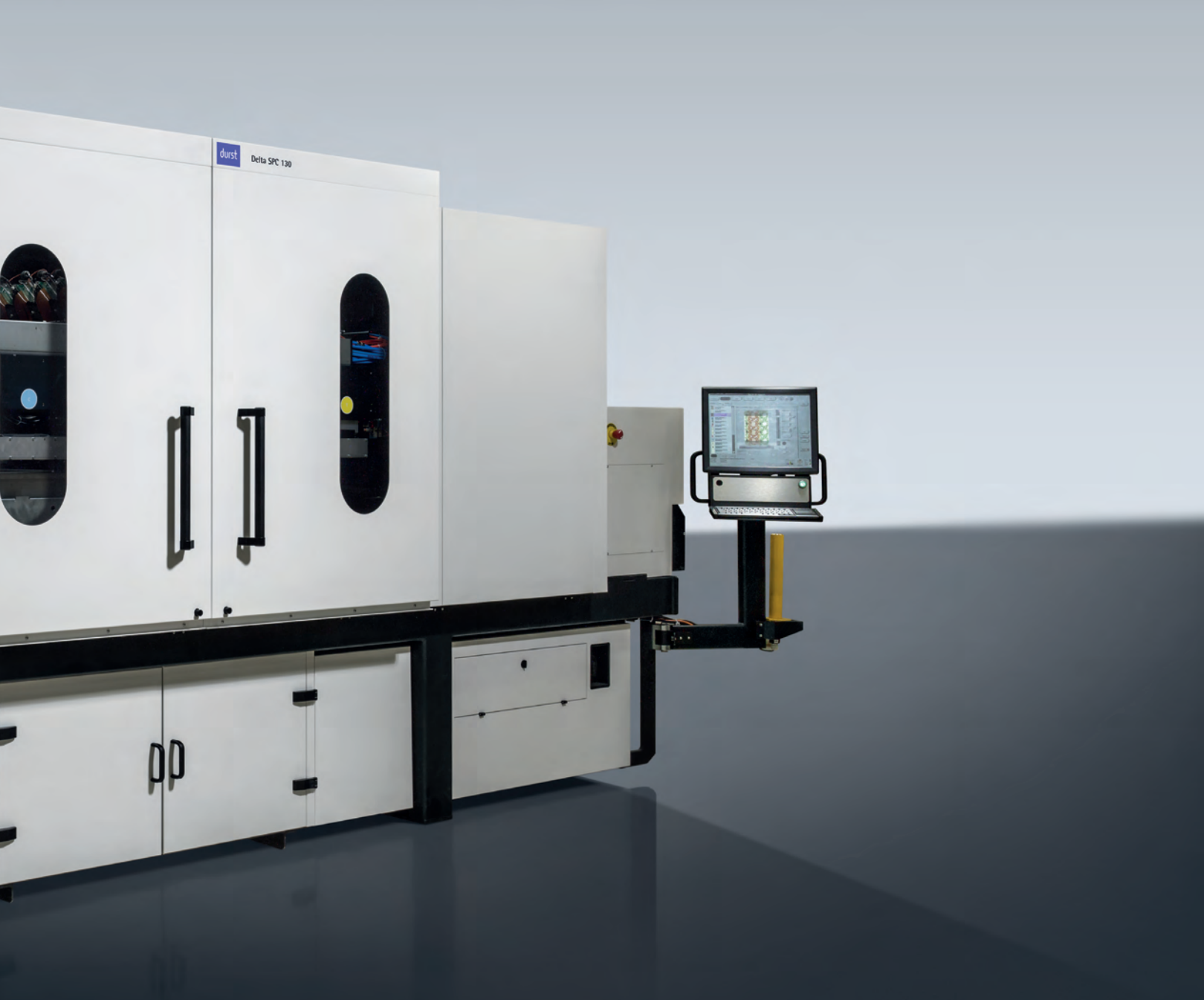
max. to 100,000 $\frac{\text{sq ft}}{\text{h}}$

195 to 390 $\frac{\text{lf}}{\text{min}}$

24/7

Delta SPC 130
Single Pass Corrugated

The Delta SPC 130 is based on the latest generation of Single-Pass printing systems that Durst is already using successfully in the ceramics- and label-printing segments. Durst has continuously developed Single-Pass technology since 2005 and has a broad installation base with over 700 Gamma and Tau printing systems around the world.



With the Delta SPC 130, Durst is now adapting its Single-Pass technology for the corrugated industry. The Delta SPC 130 combines a wellengineered mechanical design with easily accessible sub-assemblies and selected components to guarantee durable quality, high performance and reliability.
The printing system offers unrivaled versatility, low maintenance requirements and in-built 24/7 reliability. It can be configured with up to 6 color rows and has a maximum printing width of 50.6 in. Any length of corrugated cardboard or paper media of up to 0,47 in in thickness can be printed—with a resolution of up to 800 dpi and at a print speed of up to 100,000 sq ft/h.
The Delta SPC 130 is equipped with Durst's SPC Drop-on-Demand print head technology and has a non-hazardous ink system and an IR/UV drying process designed for high productivity. A feeder with Non-Crush technology specially designed for digital corrugated cardboard production transports the media virtually without contact to ensure that the material structure is not damaged.

Description: Industrial Single-Pass printer

Material: Corrugated boards

Thickness: 0.06 - 0.47 in

Board size: min. 19.6 x 23.6 in and max. 51.2 x 86.7 in

Printing format: max. 50.6 x 86.0 in

Resolution: max. 800 dpi

Productivity: max. 100,000 sq ft/h (max. 394 lf/min)

Print heads: Durst SPC Drop-on-Demand

Inks: Durst Water Technology

Colors: 4 up to 6

Board line: 46 in

Dimensions (L x W x H): min. 110 x 35 x 13 ft

Durst Delta SPC 130 FlexLine Concept

Durst offers the Delta SPC 130 in an integrated production line, thus enabling corrugated cardboard manufacturers and converters to achieve fully automated production and exploit the potential of digitalization. The Durst FlexLine concept provides a range of different options.
Delta SPC 130 can also be integrated into existing production lines.

P3

Hybrid Dryer
Hybrid, adaptive drying technology. High gloss and high adhesion on coated fiber-based materials without pre-treatment.
The thin coating layer and high adhesive friction of the ink surface prevent the stack from shifting.

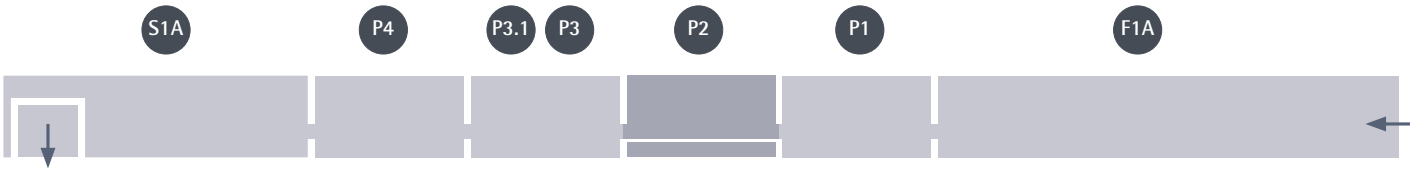
P4

Cooling Section
Cooling down of the printed boards to ensure fast further processing.

P3.1

Quality Inspection
Detection of issues during the printing process. (optional)

FlexLine Automatic | 157 ft



S1A

Stacker Section
Fully automatic stacker with integrated discharge lock of the detected failed boards.

F1A

Feeder Section
Fully automatic nonstop feeder with integrated board cleaning section, detection of boards quality issues and automatic discharge lock for these detected boards.

P2

Single-Pass-Printer
Printing on a wide range of fiber-based
materials without primer. Minimum set-up times when changing jobs.
Repeat accuracy and color stability from the very first sheet.
High-precision positioning, exact print alignment.
No color bleeds required.

P1

Priming Station
Pre-treatment of coated and uncoated boards.

F3

Board Quality Control Table
Detection of faulty material before it enters the printing system without interruption to the printing process.

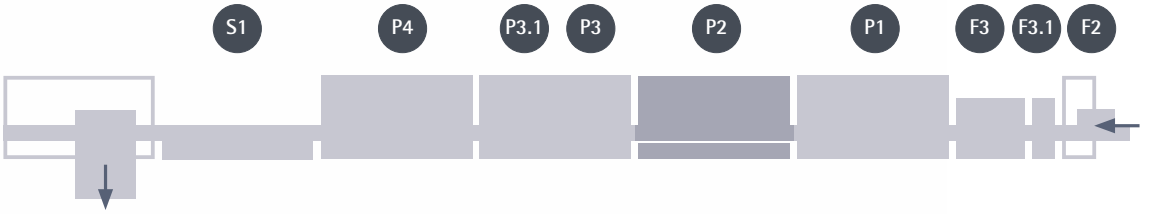
F3.1

Board Cleaning Section
Double-sided automatic board cleaning. (optional)

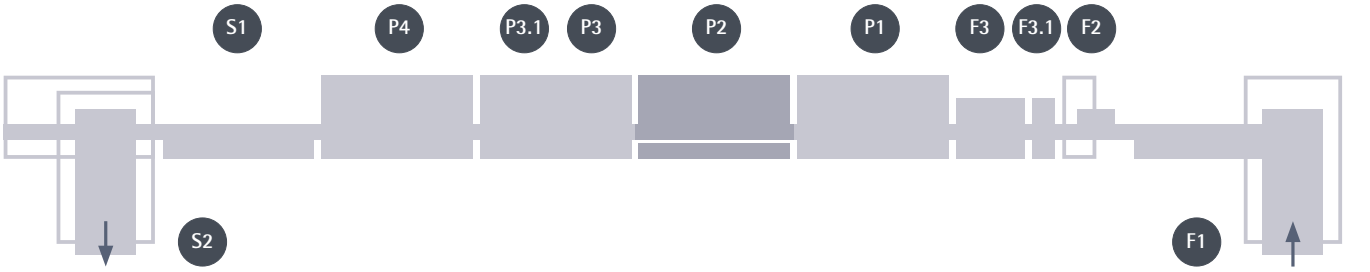
F2

Non-Crush-Feeder
Transport of boards without damaging the board structure.

FlexLine Basic | 125 ft



FlexLine Standard | 148 ft



S2

Turner & Stacker

S1

Counter Ejector

F1

Turner & Pre-Feeder

Durst Delta Multi-Pass Portfolio for Corrugated Packaging

The Delta Multi-Pass corrugated portfolio is the first large format UV inkjet printer series specially developed for printing on corrugated media. Delta Multi-Pass printing systems can produce POP Displays and outer packaging economically in standard or custom sizes from a batch size of one.

Delta corrugated Multi-Pass printing systems are designed for 24/7 operation and have various levels of automation allowing unmanned production.

Industry standard

Economical

Versatile

Robust

Delta 250

Delta Multi-Pass UV printing system print with a resolution of 1000 dpi and offer additional process colors like light cyan, light magenta, orange and purple or orange and green, in order to deliver the most subtle printing results. The printing system can be also configured with the color option „White Underprint" and fits so perfect for printing on brown corrugated materials. The Delta 250 series sets a quality standard for industrial UV inkjet printing.

Description: Industrial Multi-Pass printer

Material: Variety of uncoated and coated material, also structured surfaces

Board size: min. 12 x 17 in and max. 98 x 126 in

Resolution: 1000 dpi

Productivity:
continuous printing at full width max. 4,300 sq ft/h,
2-pass quality mode: 1,400 sq ft/h

Print heads: Durst Quadro Array 10

Inks: UV-Inks

Colors: 4, 5, 6, 7

Board line: 41.1 in

Dimensions (L x W x H): min. 15 x 20 x 7 ft

Delta 2500
Delta 2500 HS

The Delta 2500 and the Delta 2500 HS are the flagships of the Delta UV flatbed printer portfolio with Multi-Pass technology. They combine high print quality and printing speed with unrivaled versatility. The Delta 2500 and Delta 2500 HS can be also equipped with „White Option".
The printing systems feature a maximum print width of 98 in, which also makes it highly suitable for dual track printing. Productivity with the Delta 2500 for 48 x 96 in format POP displays is 111 boards/hour in high-quality 2-pass mode, and 190 boards/hour with the Delta 2500 HS.

Description: Industrial Multi-Pass printer

Material: Variety of uncoated and coated material, also structured surfaces

Board size: min. 24 x 31 in and max. 98 x 126 mm

Printing format: max. 98 x 126 in

Resolution:
Delta 2500: 1000 dpi
Delta 2500 HS: 600 dpi

Productivity:
measured with Dual-Track printing and sheet size 48 x 96 in
Delta 2500: 2-pass quality mode 111 boards/h
Delta 2500 HS: 2-pass quality mode 190 boards/h

Print heads: Durst Quadro Array 12/30 M

Inks: UV-Inks

Colors: 4, 6, 8

Board line: 41,1 in

Dimensions (L x W x H): min. 21 x 24 x 9 ft

Delta WT 250

The Delta WT 250 represents a new generation of printers incorporating Durst Water Technology. The system prints from flexo quality up to supberb litho quality with odorless ink. Durst Water Technology is highly suited for a range of Corrugated Packaging and Display applications. Durst WT Inks are completely free of hazardous labeling and comply with the strictest health and safety regulations.

The Delta WT 250 system is equipped with recirculating Durst Quadro Arra printheads and Delta WT Inks. This additional recirculation behind the nozzleplate of the printhead ensures open time and reliability. In order to achieve up to superb litho quality look and feel, the odorless ink film is fixed, dried and sealed in one integrated process. The Delta WT 250 print with maximum 6 colors (CMYK plus optional LcLm) on small sheet sizes from min. 12 x 17 in up to very large boards with a maximum size 98 x 126 in.

Description: Industrial Multi-Pass printer

Material: Variety of uncoated and coated corrugated- and fiber material

Board size: min. 12 x 17 in and max. 98 x 126 in

Resolution: 1000 dpi

Productivity:
measured with sheet size 98 x 63 in
HD Production Mode 29 sheets/h
Volume Production Mode 45 sheets/h

Print Heads: Durst Quadro Array

Ink System: Durst Water Technology

Colors: 4, 6

Board line: 41.1 in

Dimensions (L x B x H): min. 15 x 20 x 7 ft

Configure your Digital Future Today

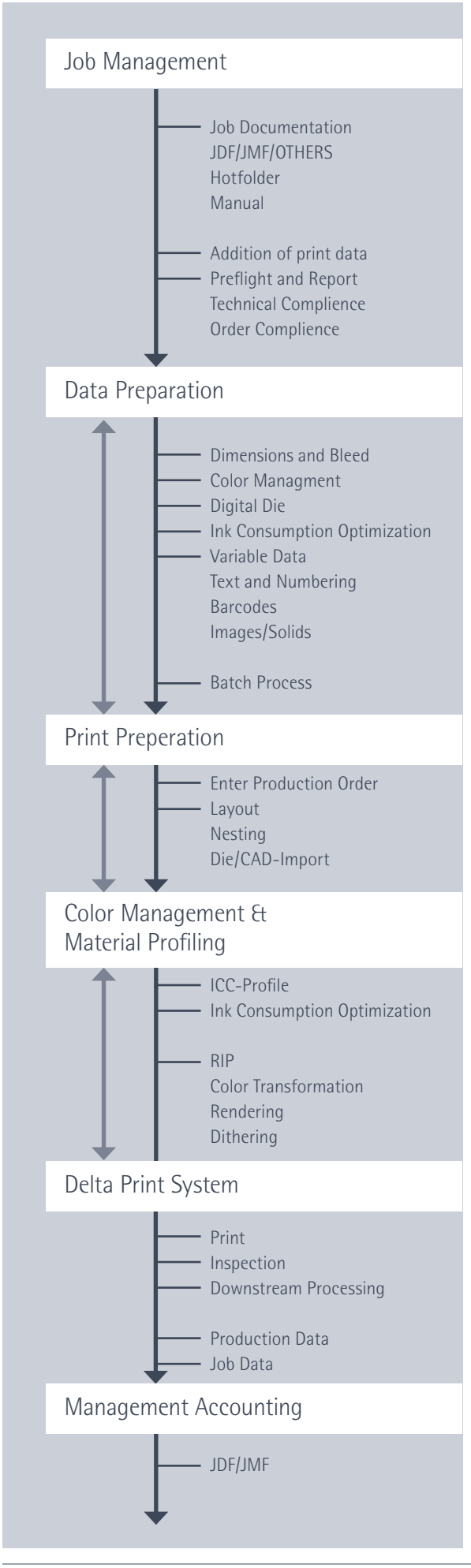
The possibilities of digital technology are practically limitless and offer enormous potential for new products and services in a continually changing and demanding market. With Delta, Durst offers a variable, versatile, adjustable and configurable machine system which can be individually adapted to customer needs.

Variable

Economical

Sustainable

Innovative



Durst Workflow-Packaging

For the Delta Series, Durst offers a Packaging Workflow System. This comprehensive solution covers all processes from data management and print data preparation to output on the printer and reporting. Access to the software is browser-based and can also be managed without any additional installations from mobile devices. The Durst Packaging Workflow System offers a range of modules that can be expanded at any time and adapted to the requirements at hand. The various modules include solutions for variable data printing, ink cost calculations, the digital color management system, job management and much more.

In the process chain, the System ensures that:

- The job data and information is managed on a specific basis.
- The job status can be viewed at all times for user groups.
- Interfaces are defined between customer support, media designers, media technologists and controlling.
- Informative Reports for customer communication are provided
- The print data with all relaevant information is ready for production even in preflight mode.
- The print data is displayed clearly and in a modern manner in the browser window.
- Automated tasks can be applied to multiple jobs in batch mode
- An Adobe Illustrator plug-in is available for simple data preparation as well as extentions in special applications.
- The variable data printing (texts, numbering, images and bar codes) can be carried out directly via the browser or via Adobe Illustrator.
- Ink cost calculations can be made right from the first minute.
- True-color measurement values are available for special colors (ΔE76/ΔE00).
- Ink consumption can be optimized through different profiles (Economy, Standard or Best Match).
- All process steps are documented and can be retrieved and repeated at any time.

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