

Delta SPC 130

DIGITAL HIGH QUALITY
POST PRINT FOR INDUSTRIAL
PRODUCTION



DELTA SPC 130

INDUSTRIAL DIGITAL PRINTING

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. This single-pass technology has been continuously developed since 2005. Koenig & Bauer Durst has adapted and optimized this single-pass platform to the needs of the corrugated board industry. The Delta SPC 130 combines a well-engineered mechanical design with easily accessible sub-assemblies and selected components to guarantee durable quality and high performance. It is a printing system that offers unrivaled versatility, low maintenance requirements and 24/7 reliability.

The Delta SPC 130 is equipped with recirculating Durst Quadro Array printheads and waterbased inks. These form the basis for the constant readiness for operation and reliability in industrial, multi-shift production environments. With our Flexline concept, we can offer the ideal solution based on the different customer needs.

The standard resolution for most of the production is 800 dpi. For printing of fine details and small text the Delta SPC 130 offers 1000 dpi as highest resolution. For very high productivity a 600 dpi mode is available too.

1,300
mm

max. sheet width

2,800
mm

max. sheet length

600
mm

min. sheet width and length

12
mm

max. sheet thickness

1
mm

min. sheet thickness (F-flute)

4-6
Colors

CMYK+Or+Vi (Gn on request)

DURST WATER TECHNOLOGY

Our philosophy in developing our whole SPC digital printing system is to ensure that we can support converters to comply with the ever-changing regulatory environment by eliminating as many process steps with third party fluids as possible.

Durst Water Technology inks are an integral part of the long-term Durst strategy of offering sustainable digital printing systems as an alternative to conventional printing systems for the packaging and display market.

Entirely in synchrony with the requirements of the corrugated cardboard and solid cardboard industry,

these are eco-friendly, marking-free, water-based, organic-pigmented and monomer-free ink systems. They represent the next technological milestone in water-based ink systems, as they allow high-quality, odor-free, indelible, glossy and non-fading products to be manufactured in a single process. Durst Water Technology means that pre-treatment, interim drying and overprinting steps can be eliminated.

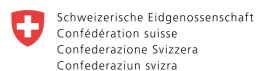
- **Odorless**
- **Flexible**
- **Non-fading**
- **High-gloss**
- **Abrasion resistant**

PRIMARY FOOD PACKAGING

Certified by SQTS - Swiss quality testing services SQTS tested the Delta SPC 130 ink set for primary food-safe packaging printed on corrugated cardboard box. For this applications printing on the exterior, non-food contact side was approved

INK SET: DURST WT FOOD SP INK

- ✓ **SQTS - Swiss quality testing services tested**
- ✓ **GMP compliant ink production**
- ✓ **UL 2801 ECOLOGO certified**
- ✓ **Nestlé-compliant**
- ✓ **Swiss ordinance compliant**
- ✓ **EuPIA conform**



RECYCLING AND DEINKING

Durst Water Technology prints were evaluated by the independent German institute Papiertechnische Stiftung (PTS). The testing of recyclability of the Durst WT Food SP inks was carried out in accordance with the PTS method PTS-RH 021:2021 – Category I: Paper and board for Recycling (PfR). The criteria used in the assessment of the recyclability were the percentage of non-paper constituents, disintegratability, adhesive impurities and the deinkability according to INGEDE Method 11.

DELTA CONTROL STATION

COCKPIT FOR CENTRALIZED OPERATION AND MONITORING

The Delta Control Station offers a state-of-the-art, ergonomic workstation for simple, clear and central operation of the Digital Koenig & Bauer Durst Single-Pass Printing Line.



- One 32" touch screen for controlling the Delta SPC 130 line
- Two 55" screens for Q-control, Workflow, camera view, ERP
- Working table for sheet size 280 x 130 cm for quality assessment, profiling and color control.
- Integrated standing assistance for the operator
- Norm light D 50/65
- Signal lamp for displaying the Printer status
- 6 lockers for machine operators incl. mobile phone charging connector
- Integrated refrigerator for PET water bottles 1,5 l (EU version only)

DIGITAL PRIMER

4 WAY STRATEGY

The Digital Priming Station is widening the range of top liners and therefore the possibility of various applications. As an add-on for the Delta SPC 130, the Digital Priming Station can be installed from the beginning or upgraded in the field later.

- **Non-crush priming Process**
- **Widens substrate range significantly**
- **Flying job change with spot priming**
- **Fully Compatible for variable data printing**

Print Quality

Enhancement of print quality
Improves fine details and text sharpness
Optimisation of Color Gamut

Top Liner

Allows the use thinner and lower grade top liner
High cost saving potential
Improved TCO compared to conventional priming

Printing effects

New effects possible
Special designs for premium products

Ink consumption

Strong ink saving impact especially for uncoated paper




DELTA SPC 130 AUTOMATIC

9

DELTA CONTROL STATION

- Central Control Area to run the single pass digital printing line
- Video support

Specifications

Max. sheet size	1,300 x 2,800 mm 67 x 110" 1,300 x 2,100 mm 51x83" – optional
Min. sheet size	600 x 600 mm 23,5x23,5"
Max. sheet thickness	12 mm 0,47"
Min. sheet thickness	1 mm (F-flute) 0,04"
Max. Stack height	2,000 mm 6,6 ft
Print Speed High Quality	up to 90 m/min 295 ft/min
Print Speed High Productivity	up to 120 m/min 400 ft/min
Resolution	1,000 / 800 / 600 dpi
Colors	4C – 6C Or Vi (Gn on request) 
Line length	38 – 44 m 125 – 144 ft



8

STACKER AUTOMATIC

- Single sheet down stacker
- Non-Stop functionality

7

STACKER CONVEYOR AUTOMATIC

- Automatic waste gate after printing
- Additional manual eject gate for test sheet

6

COOLER

- Condition unit for exceptional rub resistance without OPV
- Reduces board temperature for easier post treatment

5

DRYER

- High efficient dryer combination with infrared (IR) and hot air

4

DELTA SPC 130 PRINTER

- High Quality digital print on all coated and uncoated top liners
- Robust and long lasting piezo inkjet printheads
- Minimised set-up time by job change

3

DIGITAL PRIMER – OPTIONAL

- Digital pre-treatment of uncoated and coated top liner

2

FEEDER CONVEYOR AUTOMATIC

- Board Quality Control
- Automatic Waste Gate to eject bad quality boards
- Contactless board cleaning

1

FEEDER AUTOMATIC

- Top – Feeder technology
- Non Stop functionality

DELTA SPC 130 ECO+

Specifications	
Max. sheet size	1,300 x 2,800 mm 67 x 110" 1,300 x 2,100 mm 51x83" – optional
Min. sheet size	600 x 600 mm 23,5x23,5"
Max. sheet thickness	12 mm 0,47"
Min. sheet thickness	1 mm (F-flute) 0,04"
Max. Stack height	starting from 1,100 mm 3,6ft
Print Speed High Quality	up to 50 m/min 262 ft/min
Print Speed High Productivity	up to 80 m/min 164 ft/min
Resolution	1000 / 800 / 600 dpi
Colors	4C – 6C Or Vi (Gn on request) 
Length of Platform	27 – 33 m 88,5 – 108 ft



8

DELTA CONTROL STATION
– OPTIONAL

- Central Control Area to run the single pass digital printing line
- Video support

7

STACKER ECO+

- Single sheet down stacker

6

STACKER CONVEYOR ECO+

- Manual waste gate after printing

5

DRYER ECO+

- High efficient dryer combination with infrared (IR) and hot air
- Condition unit for exceptional rub resistance without OPV
- Integrated cooler reduces board temperature for easier post treatment

4

DELTA SPC 130 PRINTER

- High Quality digital print on all coated and uncoated top liners
- Robust and long lasting piezo inkjet printheads
- Minimised set-up time by job change

3

DIGITAL PRIMER
– OPTIONAL

- Digital pre-treatment of uncoated and coated top liner

2

FEEDER CONVEYOR ECO+

- Board Quality Control
- Manual Waste Gate to eject single bad quality boards
- Contactless board cleaning – optional

1

FEEDER ECO+

- Top Feeder technology
- Semi automatic fast stack change

TRAINING CENTER

TRAINING. TAILORED PROGRAMS –
OPTIMISED PRODUCTION

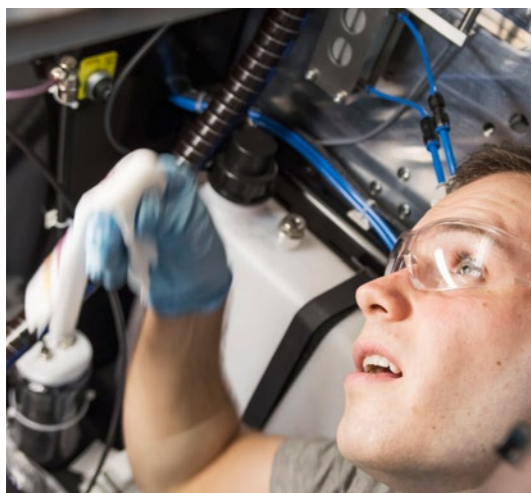


At our training center, we offer customised training programs covering a wide range of requirements: Operating training courses, training for in-house engineers focusing on maintenance and the transfer of technological expertise, as well as workflow training courses covering everything from the image file to the final print product.

We also focus on teaching theory and practical application for printer linearisation, media profiling, ink limitation and color management. All of our training courses are practice-oriented in order to ensure smooth production processes and to maximise the performance, quality and productivity of your investment.

SERVICE AND CUSTOMER CARE

SERVICE. A NETWORK TO RELY ON

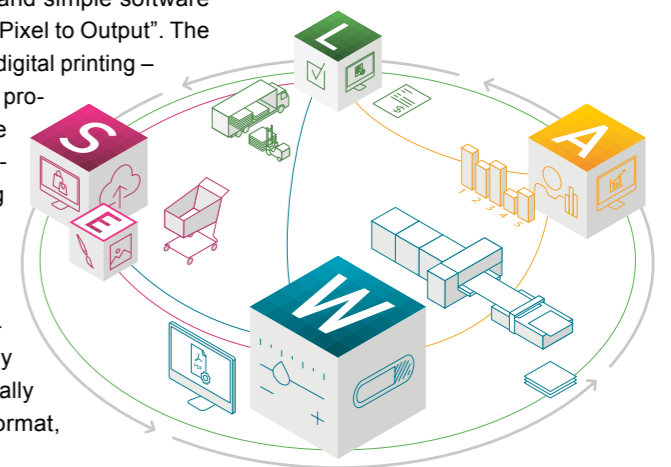


We stand for the steadiness and efficiency of our systems. If you still need help, you can rely on our worldwide network of service and support. For trouble-free operation of your system, we support you with remote diagnostics and telephone service, and with direct service on site, whenever needed, within a very short time. We have focused on maximising these tasks.

SOFTWARE & SOLUTIONS

A REVOLUTIONARY SOFTWARE ECO-SYSTEM
THAT COVERS ALL RELEVANT ASPECTS OF YOUR
PRINTING BUSINESS – OPEN AND MODULAR.

Durst Software & Solutions offers smart and simple software solutions to streamline the process “From Pixel to Output”. The solutions, which are specifically tailored to digital printing – from initial file creation through prepress to production and final analysis – help to improve your printing production processes and simplify your business. Consulting and training services tailored to your specific needs will help you to achieve optimised work processes. The Durst software is modular and can be flexibly adapted to your needs – from a simple stand-alone solution to a fully integrated system. All products are individually expandable and can be used for large format, label, corrugated, and textile printing.



PREPRESS & PRODUCTION DURST WORKFLOW

A browser-based software solution that combines pre-press and production automation tasks. File checking, data preparation, color management, ink and media saving and much more. Durst Workflow is the ideal tool-box to ensure an efficient production flow with optimal results in the shortest time. Generate print predictable files, manage your process according to your production requirements and get real time feedback on the current status with Durst Workflow.

- Improve your prepress productivity
- Handle your printing data
- Achieve outstanding color accuracy
- Enhance your print data handling
- Optimise material usage
- Optimise your ripping speed
- Automate your processes
- Increase your variable data management

DATA & TRANSPARENCY DURST ANALYTICS

The analytics software designed for your Koenig & Bauer Durst printer to allow data-driven decisions. Customised dashboards with key performance information, production timelines, detailed job information as well as KPI reports. Spare part conditions are also effortlessly checked to allow preventive maintenance operations. Increase your productivity and keep your equipment under control with Durst Analytics.



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