INNOVATING YOUR BUSINESS

FLEXO-LIKE PRODUCTIVITY

TAURUSC PLATFORM

MAINTAINING A COMPETITIVE EDGE

INDUSTRIAL SCALABILITY

RESOLUTION SPEED COLOR

LABEL & PACKAGE PRINTING
TAU RSC PLATFORM — WE KEEP YOU PRINTING

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Introduced at Labelexpo 2017, the Tau RSC platform sets a new benchmark in industrial digital UV inkjet label printing. Best in class quality and productivity, combined with highest uptime, result in a competitive package with lowest total cost of ownership.
SPECIAL FEATURES

BEST IN CLASS PRINT HEAD: DIMATIX SAMBA G3L

> Durable design based on MEMS print head technology
> Full 1,200 x 1,200 dpi resolution
> 2 pt minimum drop size for smooth gradients and absolute sharpness
> Automated nozzle compensation for increased press uptime and reduced service costs

TAU RSC INKS

> Tau RSC UV inks
> BS5609 and UL compliance achieved, excellent light fastness and heat resistance for outdoor applications
> Tau RSC Low Migration UV inks for food and pharmaceutical applications

AUTOMATIC PRINT HEAD CLEANING

> Reduces time for daily maintenance
> Ensures high up time

PRECISE TEMPERATURE CONTROL

> Closed and protected print engine for maximum printing stability
> Heating and cooling of Tau RSC inks to maintain color consistency

PROPRIETARY ELECTRONICS

> Ensures highest productivity
> Allows to print variable data at 80 m/min with all colors

SOLID MACHINE CONSTRUCTION

> In-house manufacturing of key components
> Designed for 24/7 operation
Equipped with latest RSC technology, the Tau 330 RSC E combines best in class print quality with an economic investment. Fully upgradable to an 8 color Tau 330 RSC with a print speed of 80 m/min guarantees that future increased production capacity requirements are covered.

Customers can choose between the Tau RSC UV inks and Tau RSC Low Migration UV inks.
Future proof
Field upgrade possibility to 80 m/min
Ready for additional process colors

Real production speed
52 m/min with all colors incl. white
Variable data printing at full speed

Automated nozzle compensation
Retrofittable inline system
TAU 330 RSC — BOOSTS YOUR BUSINESS

The benchmark in productivity and flexibility is the Tau 330 RSC. New added options such as the high-speed white allows operators to print with all colors and white at a speed of 80 m/min.

With the Tau RSC UV inks the press prints labels for various applications: industrial, oil and electronic labels, cosmetics, toiletries and bodycare, wine and spirits, stickers, tubes, commercial labels and many more.

Reliable construction
Proved and experienced design

Vibrant RSC inks
Up to 85% Pantone coverage with dE00<2 on HermaPE with CMYK
High-opacity white print mode
Opacity up to 80%

High-speed white print mode
Print speed with white color up to 80 m/min

Automated nozzle compensation
Retrofittable inline system
Innovation for an industrial level of productivity. The newest member of the Tau RSC platform is the Tau RSCi. Available in printing widths of 330, 420 or 510 mm the printer is using the Tau RSC UV inks. The press is designed to take over mid-to longrun jobs but is also able to produce short-run jobs in the most economic way.

The user-friendly design including jumbo winders and roll lifts allows fast roll changes and good accessibility to print heads, UV-lamps and transport rollers. The integrated large inspection table provides space for visual inspection. The Tau RSCi is equipped by default with a chill roller to guarantee maximum material and application flexibility.

**Highest productivity**
Print speed up to 100 m/min

**Jumbo winders**
For rolls with Ø 1,016 mm and included roll lift
Industrial scalability
Print width of 330/420/510 mm

RSC print quality
Based on Tau RSC technology

Innovative approach
Front side operation and ink refill
TECHNICAL OVERVIEW

STANDARD SCOPE OF DELIVERY

Print head
- Print resolution – native: 1,200 dpi
- Minimum drop size – Greyscale levels: 2 pl – 3 levels: 2 – 4 – 6 pl
- Maximum print speed: 52 m/min (170 ft/min), upgradeable to 80 m/min (262 ft/min)
- Print width: Max. 244 mm (9.6 in) or max. 330 mm (13 in)
- Inks: Tau RSC UV ink, Tau RSC Low Migration UV ink

Minimum drop size – Greyscale levels
- Maximum print speed
- Print width
- Inks
- Loading capacity
- Substrate width
- Substrate thickness
- Substrate type

ADDITIONAL OPTIONS

Web Cleaner
- Single or double side

Corona
- Yes

Inserter sensor
- Yes

Variable data printing
- Yes

High-opacity white print mode
- Yes

High-speed white print mode
- Yes

Chill roller
- Yes

Inerting system
- Yes

External Jumbo winder
- Yes, for roll loading capacity with a diameter of max. 1,016 mm (40 in) and max. 450 kg (992 lbs)
- Yes, manual or automated mode

Inerting system
- Yes

Automated nozzle compensation
- Yes, manual or automated mode

High-speed color print mode
- No

SPACE REQUIREMENTS

for standard scope of delivery

ENVIRONMENTAL INFORMATION

Temperature range: 18 °C (64 °F) – 28 °C (82 °F)

Humidity: 40 – 70%, non condensing
## TAU 330 RSC

**Durstix Samba**
- 1,200 x 1,200 dpi
- 2 pl – 3 levels: 2 – 4 – 6 pl
- 80 m/min [262 ft/min]
- Max. 330 mm [13 in]

**Durstix RSC UV ink**
- Roll diameter max. 680 mm [26.7 in], max. 120 kg [264 lbs]
- Min. 165 mm [6.5 in] – max. 350 mm [13.7 in]

**Inks**
- Tau RSC UV ink, Tau RSC Low Migration UV ink

**Loading capacity**
- Roll diameter max. 680 mm [26.7 in], max. 120 kg [264 lbs]

**Substrate width**
- Min. 165 mm [6.5 in] – max. 350 mm [13.7 in]

**Substrate thickness**
- 100 µm to 500 µm. With chill roller: *20 µm to 500 µm

**Substrate type**
- Coated and uncoated, supported and unsupported substrates.
  - Paper, white and transparent film, PP, PE, PVC, PET, BOPP,
  - *only aluminum foil and PET

**Web Cleaner**
- Single or double side

**Corona**
- Vetaphone

**Insetter sensor**
- Yes

**Variable data printing**
- Yes

**High-opacity white print mode**
- Yes

**High-speed white print mode**
- Yes

**Chill roller**
- Yes

**Inerting system**
- Yes

**External Jumbo winder**
- Yes, for roll loading capacity with a diameter of max. 1,016 mm [40 in] and max. 450 kg [992 lbs]

**Automated nozzle compensation**
- Yes, manual or automated mode

**High-speed color print mode**
- No

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## TAU RSCi

**Durstix Samba**
- 2 pl – 3 levels: 2 – 4 – 6 pl
- 80 m/min [262 ft/min] @ full resolution
- Max. 330 mm [13 in], 420 mm [16.5 in], 510 mm [20 in]

**Durstix RSC UV ink**
- Roll diameter max. 1,016 mm [40 in], max. 450 kg [992 lbs]
- Min. 200 mm [7.9 in] – max. 350/430/520 mm [13.7/17/20.5 in]
  - (depending on printing width)

**Inks**
- Tau RSC UV ink

**Loading capacity**
- Roll diameter max. 1,016 mm [40 in], max. 450 kg [992 lbs]

**Substrate width**
- Min. 200 mm [7.9 in] – max. 350/430/520 mm [13.7/17/20.5 in]

**Substrate thickness**
- 100 µm to 500 µm. With chill roller: *20 µm to 500 µm

**Substrate type**
- Coated and uncoated, supported and unsupported substrates.
  - Paper, white and transparent film, PP, PE, PVC, PET, BOPP,
  - *only aluminum foil and PET

**Web Cleaner**
- Single or double side

**Corona**
- Vetaphone

**Insetter sensor**
- Yes

**Variable data printing**
- Yes

**High-opacity white print mode**
- Yes

**High-speed white print mode**
- Yes

**Chill roller**
- Yes

**Inerting system**
- Yes

**External Jumbo winder**
- Yes, for roll loading capacity with a diameter of max. 1,016 mm [40 in] and max. 450 kg [992 lbs]
  - Included in basic configuration

**Automated nozzle compensation**
- Yes, manual or automated mode

**High-speed color print mode**
- Yes

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**TAU RSCi**

**Dimensions**
- L 566 cm (223 in)
- H 209 cm (82 in)
- W 120 cm (47.2 in)

**TAU 330 RSC**

**Dimensions**
- L 455 cm (179 in)
- H 223 cm (88 in)
- W 186 cm (73 in)
In accordance with Durst’s quality, productivity and environmental standards, the company’s ink portfolio comprises various UV ink systems matched to clients needs. Maximum print quality, uptime, and productivity with minimum ink consumption are the result of the continuous and systematic development of the core competencies in mechanical engineering as well as in ink and print-head technology in Durst’s innovation center.

This ‘magical triangle of inkjet technology’ is a holistic approach aimed at providing inks for a wide range of different end uses.
Durst offers dedicated ink systems for the RSC platform to cover a wide range of applications. Durst’s development approach and exclusive partnerships with world-leading ink companies, including in-house application and weathering tests, ensures maximum system stability.

All ink systems and production batches are continuously monitored under the strictest laboratory conditions in order to provide optimum performance for users.

- Large color space
- High system stability
- Broad application diversity
- High pigmentation
- Low ink consumption
- Additional process colors
TAU RSC UV INK

With the launch of Tau 330 RSC label press, the new ink set Tau RSC UV ink has been introduced. During development the focus was on excellent flow characteristics and high edge sharpness.

With 7 process colors it is possible to cover up to 95% of the Pantone color scale and reproduce corporate colors exactly.

Tau RSC UV inks are light-fast and resistant to chemical influences. Tau RSC UV inks are available in Cyan, Magenta, Yellow, Black, Orange, Violet, Green and White. The ink set is used in the Tau 330 RSC E, Tau 330 RSC and the Tau RSCi press.

> Automotive
> Electronics
> Industrial

> Commercial labeling
> Chemicals
> Personal care

COLOR GAMUT

Comparison between CMYK and CMYK + OVG color profile, created on HERMA PE White TC851
The light-fastness of this ink set was determined on raw material level in combination with the Xenon Arc test. The subsequent table summarizes the corresponding results rated to the blue wool testing protocol.

<table>
<thead>
<tr>
<th>Color</th>
<th>Blue wool rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyan</td>
<td>up to 8</td>
</tr>
<tr>
<td>Magenta</td>
<td>up to 8</td>
</tr>
<tr>
<td>Yellow</td>
<td>up to 8</td>
</tr>
<tr>
<td>Black</td>
<td>up to 8</td>
</tr>
<tr>
<td>Orange</td>
<td>up to 6 – 7</td>
</tr>
<tr>
<td>Violet</td>
<td>up to 8</td>
</tr>
<tr>
<td>Green</td>
<td>up to 7 – 8</td>
</tr>
<tr>
<td>White</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

Note: Tests and certifications have been performed on substrates supplied by Avery Dennison. For detailed information please contact your local Durst partner.

UL and CSA recognitions
The adhesive performance, as well as the legibility and print endurance, is evaluated according to UL 969 after exposing the printed labels to different temperatures, UV light, water, rubbing and scraping. Inks themselves cannot be UL recognized, the standard is only applicable to printed label materials. Together with the label material manufacturer Avery Dennison, Durst has obtained UL recognitions for the Tau RSC inks in combination with several self-adhesive materials.

BS5609 SECTION 3
Labels printed with Tau RSC UV ink have successfully passed BS5609 section 3 certification.

Chemical resistance
Resistance to n-hexane, methylated spirit and gasoline has been tested successfully.

Temperature resistance
According to UL 969, part 7.1 print samples have been exposed for 10 days to a temperature of 150 °C and 180 °C. The prints with Tau RSC UV inks showed a very good stability and resistance.

Outdoor weathering
Artificial weathering machines are used to simulate sunlight and rain influence to labels. Tau RSC UV inks offer a high-resistance to ensure proper readability.

Note: Tests and certifications have been performed on substrates supplied by Avery Dennison. For detailed information please contact your local Durst partner.

VOCs
Tau RSC UV inks do not contain volatile organic compounds (VOCs) as described by EU definition Council Directive 1999/13/EC.

BPA and benzophenone
Bisphenol A (BPA) and benzophenone are not intentionally added to this ink.

Natural latex statement
Tau RSC UV inks are latex free.
The new Tau RSC Low Migration inks have been developed specially for applications in the food, beverage, cosmetics and pharmaceutical markets.

The inks have been formulated based on the common regulation and tested and declared as compliant by independent test institutes.

<table>
<thead>
<tr>
<th>Standard</th>
<th>CMYK</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

> Beverages  > Pharmaceutical
> Food       > Toiletries
> Cosmetics

COLOR GAMUT

Comparison between CMYK and CMYK + O color profile, created on HERMA PE White TC851
The light-fastness of the ink set was determined on raw material level. The subsequent table summarizes the corresponding results rated to the blue wool testing protocol.

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<td>Cyan</td>
<td>8</td>
</tr>
<tr>
<td>Magenta</td>
<td>6</td>
</tr>
<tr>
<td>Yellow</td>
<td>6</td>
</tr>
<tr>
<td>Black</td>
<td>8</td>
</tr>
<tr>
<td>Orange</td>
<td>7 – 8</td>
</tr>
<tr>
<td>White</td>
<td>7</td>
</tr>
</tbody>
</table>

Adhesion was assessed on a multitude of substrates according to DIN EN ISO 2409:2013. Adhesion was found to be excellent on typical label substrates suitable for UV inkjet printing. For specific adhesion data, please contact your local sales representative or Durst product management team.

Migration Characteristics and Food Packaging Applications
Independent migration testing indicates that Tau RSC LM inks are compliant with European Framework Regulation (1935/2004/EC) when utilized in compliant application and environment.

Even though this independent certificate is available, successful compliance with the framework will need to be confirmed on each application and will depend on the appropriate specification and control of the entire printing and packaging process.

Along this line, the manufacturer of the finished article has the responsibility to ensure compliance with the European Food Contact Materials Regulation EC 1935/2004 or the European Legislation on Plastic Materials EU 10/20011.

Nestlé Guidance Note on Packaging Inks (Version August 2016)
Tau RSC LM inks are formulated in accordance with Nestlé Guidance Note on Packaging Inks (Version August 2016).

Swiss Ordinance Compliance
All of the raw materials used in the formulation of these inks are listed on the Swiss Ordinance RS 817.023.021

Good Manufacturing Practices

Natural latex statement
Tau RSC UV inks are latex free.

BPA and benzophenone
Bisphenol A (BPA) and benzophenone are not intentionally added to this ink.
With the printing quality and ink performance provided by the Tau RSC printers, converters are able to cover multiple applications with one printing system in a flexible and economic way, having a choice between RSC and RSC Low Migration ink to address dedicated applications. Thanks to its outstanding performance in productivity and print quality, especially the Tau RSCi is a game changer in transferring flexo jobs onto a digital press platform.

COSMETICS AND TOILETRIES

Tau RSC provides the highest opacity white, vivid colors and a screen-like feeling of the prints. Patternware add additional value to further enhance the appearance on the shelf.

FOOD AND BEVERAGES

Abrasion resistance and temperature stability is key for these industry applications. Furthermore, the vivid and strong Tau RSC inks will make products stand out. With the new Tau RSC Low Migration inks products can be produced in compliance with general industry regulations and standards.
DURABLES

Tau RSC ink provides outstanding light fastness, temperature and abrasion resistance for durable applications. The ink is very well suited specifically for electronic, oil and lubricant labels. Compliance with UL or BS5609 section 3 for Tau RSC inks is achieved.

SPECIALITY PACKAGING

In the past, Durst has gained a vast know-how about speciality packaging applications such as blister, tubes, tags, tickets, folding cardboard. The Tau RSC platform printers are able to print on a large variety of substrates and the software solutions offered by Durst Workflow Label ensure an integrated workflow combined with secure handling of sensitive job data. For detailed information please contact your local Durst partner.

WINE & SPIRITS

Textured and uncoated substrates for these specific applications deliver a good quality with the high resolution combined with the finest drop-size of the Tau RSC platform printers.

VARIABLE DATA PRINTING

Multiple variable elements, such as barcodes, serial numbers or variable text, can be placed together on one label. All variable elements can either be in a single color or printed in multi color at full resolution and full speed of up to 80 m/min. Combined with the high ripping speed of the Durst Workflow Label variable data jobs can be processed fast and efficient.

SEQUENTIAL NUMBERING
with or without database

VARIABLE BARCODES AND QR-CODES
up to 116 different code types available

MULTIPAGE PDF PRINTING

VARIABLE IMAGES
colored and black only
All Tau printers are equipped with Durst Workflow Label new software solution and the monitoring tool Durst Analytics. This turns the printer into a production unit from day one.

To integrate e-commerce businesses, Durst offers a scalable solution for B2C and B2B with Durst Smart Shop. All Durst software can be modularly extended and managed with a web-based user interface.
SPECIAL FEATURES

PRECISE INK COST ANALYSIS

When print data is uploaded, a complete check and normalization of the data, as well as an exact calculation of ink consumption for the print file, is carried out. The configuration can be done by the user. Whether the production is cheaper only with CMYK, or by using additional process colors, can be calculated immediately.

EXACT COLOR RENDITION

Using material-specific or customer-specific colors, Durst Workflow Label always ensures perfect reproduction also of standardized colors.

HIGH-SPEED RIPPING

Latest improvements have increased the rip speed, especially for heavy variable data jobs. The Harlequin Host Renderer, which is now included with every Durst Workflow Label solution, reduces the ripping time tremendously. In addition, a high-performance workstation with 12 cores further improves the performance.

DURST ANALYTICS

By generating statistics for a defined period, the user can also identify opportunities in the internal workflow to make further improvements in process efficiency.
GRID CHART & COLORBOOK

Spot colors can be set to a specific system, substrate, customer or just a print item to allow easy management of spot colors and specific optimization. With a Grid Chart, all spot colors can be adjusted to fit requirements of your customer. Color books, including all Pantone colors, can be printed by the operator directly out of the Durst Workflow Label.

COLOR MATCHING ON DEMAND

You can automatically adjust any defined spot color using a photospectrometer to ensure a best possible match to your existing proof.

USER MANAGEMENT

Durst Workflow Label offers a user management with access levels. Multiple users can log in through the browser of their local workstation or mobile device and work simultaneously.
The Durst Smart Shop solution is designed to get the maximum from your e-business by increasing the conversion rate of your online shop and the efficiency of the digital order fulfilment.

Durst Smart Shop is an innovative online shop system for the complete handling of your print and internet orders. Offer and sell your products and printing services on the internet.

The Durst Smart Shop has all the essential functions of a web shop, enhanced by advanced calculations, realistic 3D previews and the use of print-specific attributes in product configuration.

Expand your web shop with an innovative graphical online editor. The Durst Smart Editor enables your customers to create browser-based print layouts. Everyone can design their own print products quickly and easily — without installing any additional software.

The Durst Workflow Label is a revolutionary all-in-one solution to streamline the prepress and print production process.

Durst Workflow Label is a browser-based prepress and print production solution combining data, output preparation and color management to ensure efficient production with optimal results in the shortest possible time.

A smart and simple solution to manage the print production. Easy data management combined with proven technology for color management and ripping takes your productivity to a new level.

Expands your print production solution with prepress functionality for fast and flexible print data preparation. Customizable corrections, a sophisticated color matching toolbox and integration with your ERP/MIS systems streamlines and automates your processes.

Analyze your most important print production data and monitor your printing systems via a web-based interface from virtually everywhere.

Durst Analytics helps to increase transparency of your production output and to monitor your printing systems. Easily determine your material, ink usage and productivity all at a glance.

A web-based dashboard for your daily production figures such as print job statistics and productivity. Monitoring of the current status of the printing system and critical issues prevent downtime and enable faster reaction times for trouble shooting and support.

The server-based system connects all printers equipped with Durst Analytics and makes the data available to a production planning or ERP system. This allows straightforward customized report generation with our API.
INTEGRATION

The seamless integration of the software into the customers’ workflow enables them to capture the full potential of automation and digitization of processes.

With Durst Professional Services, Durst is your partner to integrate the Durst software solutions in your IT environment.

We offer two integration service options:

> Self-service option: Durst provides standard interface definitions for the integration of Durst Workflow Plus and Durst Analytics Plus
> Full-service option: A Durst Professional Service expert manages the integration project

CONSULTANCY

We offer you expert consultancy for your e-commerce, prepress, applications and software projects. Our system integrators help you with their broad knowledge to find the best solutions for your needs.

Our skilled consultants and integrators will work with you to:

> Streamline and automate your prepress and print workflow
> Improve your application results
> Successfully implement an e-commerce solution
Our training center offers customers the opportunity to participate in one of our target group-oriented training courses.

OPERATOR TRAINING

- Qualified operator
- Printing process control

This training is intended for machine operators to learn the general handling and maintenance of the printing system.

MAINTENANCE ENGINEER TRAINING

- Preventive maintenance
- Guided troubleshooting

Proper repair Level 1
This module enables maintenance engineers to deepen their machine knowledge, as well as remotely guided first-aid troubleshooting.

Proper repair Level 2
The engineer gains advanced technical knowledge in troubleshooting and repairing, based on detailed information about the various printer components and troubleshooting guidelines.

DURST WORKFLOW LABEL TRAINING

- Printing performance
- Efficient workflow

This module includes general ‘Print Workflow Operations’ and focuses on the workflow from the image file/prepress to the final print, including conducting printer linearization, material profiling, determining ink-limits and color management specific settings.

CUSTOMIZED TRAINING

Alternatively, our training center offers a tailor-made, customized training concept for your team with individual training programs for the needs of your organization. Tailor-made for your production process as certification or further training for your staff.

For more information visit durst-group.com/dps
Durst systems stand for steadiness, efficiency and easy operation. If help is still needed, our worldwide local service network, guaranteed either through our local subsidiaries or through certified service partners, is ready to support.

Service technicians undergo intensive and detailed training sessions so that a fast and efficient remote and onsite support is guaranteed.

> More than 100 trained and certified service technicians worldwide
> + 80% of the service calls are solved remotely
> Remote access software for fast and efficient reaction
> Automatic log-file evaluation for systematic root cause analysis
DURST. ADVANCED DIGITAL PRINTING AND PRODUCTION TECHNOLOGY

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

> Customer orientation
> Innovation
> Quality
> Sustainability
The latest technical developments are constantly being incorporated into Durst products. Descriptions, illustrations and specifications are therefore subject to change without notice. Images and graphic representations are protected by copyright.

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EN | 09/2019