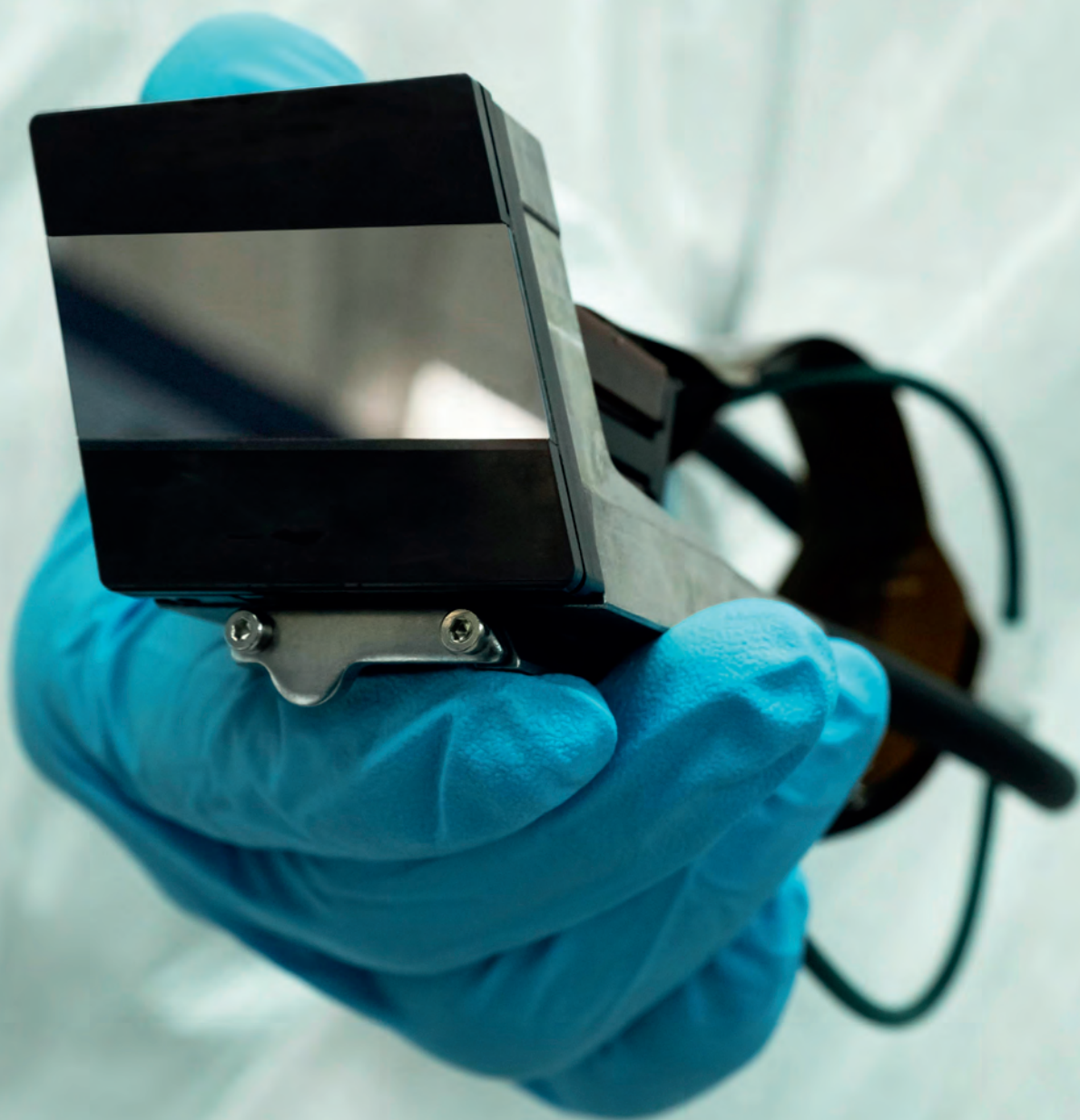


# TAU SERIES



CONFIGURE YOUR  
DIGITAL FUTURE

durst



# DURST. ADVANCED DIGITAL PRINTING AND 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.

- > 80 years experience
- > Innovation
- > Sustainability



Durst location in Brixen, Italy



Durst location in Lienz, Austria



---

# 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 the Tau 330 Series, Durst offers a variable, versatile, adjustable and configurable machine system which can be individually adapted to customer needs.

- > Productive
- > Economical
- > Modular
- > Flexible



---

# TAU 330 SERIES — LABELS CONVEY MESSAGES

---

They provide information on products, serve as a means of advertising, encourage interaction and organize the flow of goods. Labels are part of the packaging and part of the product. Accordingly, high demands are placed on

print quality, shelf life and functionality. The Tau 330's ink-jet technology offers the flexibility required for producing products more quickly, more efficiently and with optimum print quality in a wide variety of different applications

## TAU 330 RSC

> Page 6



## TAU 330 RSC E

> Page 8



## TAU 330 LOW MIGRATION

> Page 10



## OMET XJET POWERED BY DURST

> Page 17



---

# TAU 330 RSC — BOOSTS YOUR BUSINESS

---

Tau 330 RSC is a digital UV inkjet labels and packaging printer with a print width of 330 mm (13 in) and a printing speed of up to 78 running meters per minute (255.10 ft per minute). This corresponds to a production capacity of 1,485 sqm per hour (15,984 sqft per hour) at a print resolution of 1,200x1,200 dpi.

Equipped with 8 colors (CMYK + W + OVG) for the newly developed, highly pigmented Durst Tau inks, the printer produces outstanding near-flexo print quality and achieves up to 95% simulation of the Pantone color space. In accordance with the Durst Tau motto 'Configure Your Digital Future', the Tau 330 RSC works as a stand-alone printer or as a hybrid solution with the addition of conventional printing and finishing options in the OMET XFlex-X6 series. This gives the user unlimited flexibility in terms of materials and a broad range of applications.

Unmatched  
printing speed



Large color space

High print resolution



---

**Printing technology:**

Single-pass UV inkjet technology  
(drop on demand + variable drop size)  
with Dimatix Samba G3L printing heads

---

**Printing quality:**

Print resolution: 1,200 x 1,200 dpi  
Drop size: 2 pl  
Visual resolution: 2,400 x 2,400 dpi

---

**Printing speed:**

High-speed print mode: 78 lin. m/min,  
(255 lin. ft/min)  
White under print mode: 52 lin. m/min,  
(170 lin. ft/min)

---

**Print width:**

Tau 330 RSC: max. 330 mm (13 in)

---

**Ink/colors:**

High-performance UV inkjet inks  
Colors: CMYK  
Optional: orange, violet and green  
Optional: white

---

**Substrate specification:**

Width: 165 – 350 mm (6.5 – 13.7 in)  
Thickness: >20 – 500 µm

---

**Substrate type:**

Coated and uncoated, supported and  
unsupported substrates, paper, white and  
transparent film, PP, PE, PVC, PET, BOPP,  
aluminum foil

---

**Material transport:**

Roll diameter: max. 680 mm (26.5 in),  
max. 120 kg (264 lb)  
Roll diameter with jumbo unwinder/rewinder:  
max. 1,016 mm (40 in), max. 450 kg (992 lb)

---

**UV curing:**

Optional chill roller, optional inert gas  
chamber for low ink odor

---

**Optional:**

Corona treatment, web cleaning,  
inserter, 100% video inspection,  
variable data printing, high opacity white  
print mode, external jumbo winders

---

---

# TAU 330 RSC E — SINGLE PASS UV INKJET

---

The Durst Tau 330 RSC E UV inkjet label printing system combines industrial productivity with impressive print quality and efficiency. The press uses Durst's state-of-the-art RSC technology. Its native resolution of 1,200 x 1,200 dpi combined with its smallest drop size of 2 pl provides photo-like print quality. In combination with the high printing speed of 52 m/min a production capacity of 1,020 sqm/h is achievable. In addition, the white color can be used at full speed of 52 m/min.

The Tau 330 RSC E can be equipped with 8 colors (CMYK + W + OVG) and is printing with the highly pigmented Durst Tau RSC inks. Up to 95% of Pantone coverage gives the possibility to match and reproduce brand specific colors easily. During development, special focus was dedicated on the upgradeability and flexibility of the system.

All options from the Tau 330 RSC as for example the chill roller, variable data printing or the external jumbo winders can be fitted to the Tau 330 RSC E. If the need for additional production capacity is increasing over time, the Tau 330 RSC E can also be upgraded to a printing speed of 78 m/min.

Large color space





High resolution

Economical



---

**Printing technology:**

Single-pass UV inkjet technology  
(drop on demand + variable drop size) with  
Dimatix Samba G3L printing heads

---

**Printing quality:**

Print resolution: 1,200 x 1,200 dpi

Drop size: 2 pl

Visual resolution: 2,400 x 2,400 dpi

---

**Printing speed for full-color incl. white printing:**

Standard: up to 52 m/min

upgradable to 78 m/min (only full color)

---

**Print width:**

Tau 330 RSC E: max. 330 mm (13 in)

Tau 330/244 RSC E: max. 244 mm (9.6 in)

upgradable to 330 mm (13 in)

---

**Ink/colors:**

High-performance UV inkjet inks

Colors: CMYK

Optional: orange, violet and green

Optional: white

---

**Substrate specification:**

Width: 165 – 350 mm (6.5 – 13.7 in)

Thickness: >20 – 500 µm

---

**Substrate type:**

Coated and uncoated, supported and  
unsupported substrates, paper, white and  
transparent film, PP, PE, PVC, PET, BOPP,  
aluminum foil

---

**Material transport:**

Roll diameter: max. 680 mm (26.5 in),

max. 120 kg (264 lb)

Roll diameter with jumbo unwinder/rewinder:

max. 1,016 mm (40 in), max. 450 kg (992 lb)

---

**UV curing:**

Optional chill roller, optional inert gas  
chamber for low ink odor

---

**Optional:**

Corona treatment, web cleaning,  
inserter, 100% video inspection,  
variable data printing, high opacity white  
print mode, external jumbo winders

---

---

# TAU 330 — WITH LOW MIGRATION INKS

---

For applications in the fields of industrial and safety labels, long-term applications in the automotive and electronics industries, the food and beverage sector and in health and hygiene, the Tau 330 offers reliable process stability.

Digital technology enables you to fulfill market requirements, open up niche markets and take advantage of opportunities to remain a step ahead of the competition.

Patented single-pass UV inkjet technology from Durst offers up to seven inkjet colors: CMYK, orange, violet and white. In addition to standard and highly pigmented inkjet colors, the Tau 330 features low-migration and low-odor inkjet colors developed specifically for food and primary packaging printing. The Tau 330 can be outfitted with a variety of expansions. In addition to the two available maximum printing widths of 200 and 330 mm, options such as Corona treatment, web cleaning, insetters, cooling rollers, inerted drying, a 100% inspection system and variable data printing can be integrated.

24/7



Modular

High end



---

**Printing technology:**

Single-pass UV inkjet technology with variable drop size and grayscale technology, XAAR 1003 printing heads

---

**Printing quality:**

Standard: 720x360 dpi (DOD)

High definition: 720x1,260 dpi (binary)

---

**Printing speed:**

Standard: up to 48 m/min, 950 m<sup>2</sup>/h (10.225 ft<sup>2</sup>/h)

High definition: up to 40 m/min, 790 m<sup>2</sup>/h (8.503 ft<sup>2</sup>/h)

---

**Print width:**

Tau 330: max. 330 mm (13 in)

Tau 330/200: max. 200 mm (7.9 in)

---

**Ink/colors:**

Low Migration UV inks, Standard UV inks, High Pigmented UV inks

Available colors: CMYK

Optional: white, orange and violet

---

**Substrate specification:**

Width: 165 – 350 mm (6.5 – 13.7 in)

Thickness: >20 – 500 µm

---

**Substrate type:**

Coated and uncoated, supported and unsupported substrates paper, white and transparent film, PP, PE, PVC, PET, BOPP, aluminum foil

---

**Material transport:**

Roll diameter: max. 680 mm (26.7 in), max. 120 kg (264 lb)

Roll diameter with jumbo unwinder/rewinder: max. 1,016 mm (40 in), max. 240 kg (529 lb)

---

**UV curing:**

Optional chill roller, optional inert gas chamber for low ink odor

---

**Optional:**

Corona treatment, web cleaning, insetter function, video inspection, variable data printing

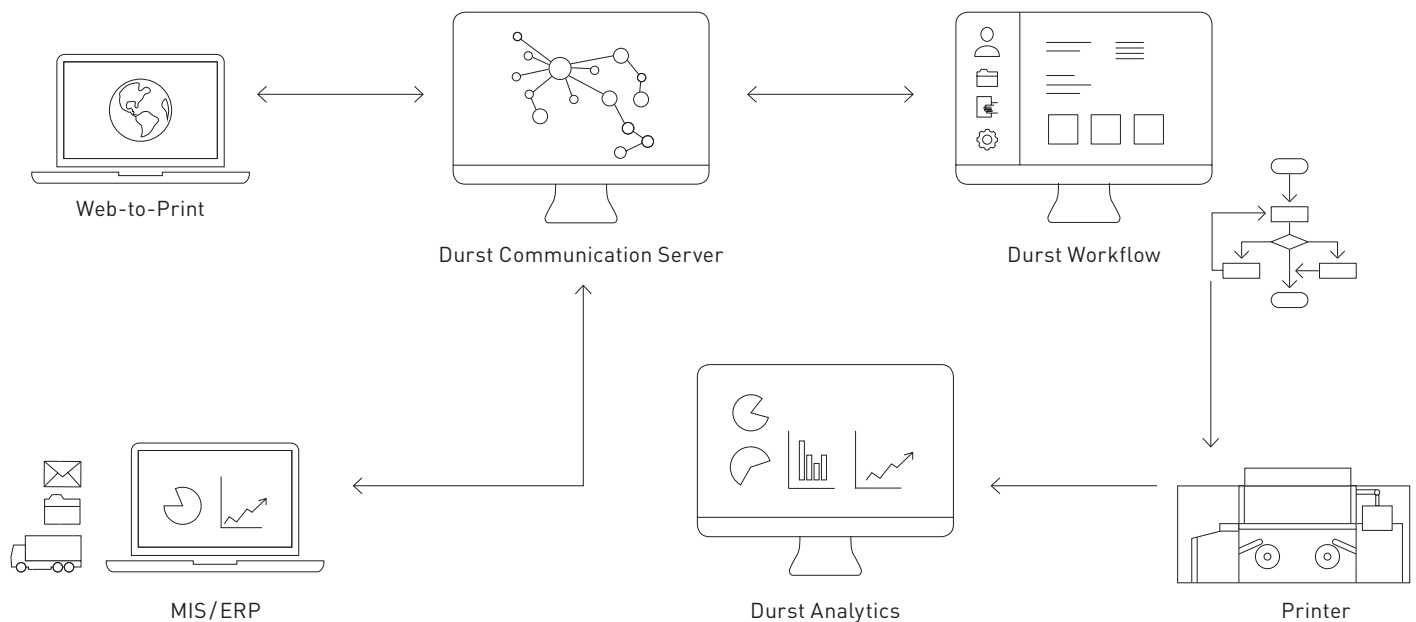
---

---

# DURST WORKFLOW SYSTEM

---

Connectivity and planning gets more and more important in a modern production environment. Durst offers a straightforward and powerful ecosystem for printing processes and order processing.



---

## DURST WORKFLOW — LABEL

---

For the Tau 330 series, Durst offers a separate label 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 Label 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 DW-L ENSURES THAT:

- > The print data is displayed clearly and in a modern manner in the browser window
- > True-color measurement values are available for special colors (Delta E94/Delta E2000 material-related)
- > The variable data printing (texts, numbering, images and bar codes) can be carried out directly via the browser or via Adobe Illustrator
- > Informative reposts are available for customer communication
- > All process steps are documented and can be retrieved and repeated at any time



---

# DURST ANALYTICS

---

The new Durst Analytics solution gives users a comprehensive solution for central monitoring of many print systems. A user-friendly interface with personalized dashboards provides real-time information about the machine status including all relevant current production parameters.

By generating statistics for a defined period, in future the user can also identify and analyse weaknesses in the internal workflow in order to make further improvements in process efficiency.

Durst Analytics has alert functions for all machine-relevant components to detect possible problems already in advance and to suggest countermeasures.



---

# DURST WEB-TO-PRINT

---

Durst Web-to-print is a comprehensive commercial web portal that gives you a continuous digital process from your customer through to your printer.

The customer can create and assess his order individually using intuitive product configurators, online editors and sophisticated 3D product visualization. A large number of templates can be used in the process. The Durst Communication Server ensures that Durst Web-to-print is fully integrated in the Durst Workflow System.

The system generates new customer jobs automatically, checks and prepares the print data and sends them directly to the printer if so required.



In combination with Durst Workflow Label, Durst Web-to-print is a powerful tool to capture the online market and to give a company greater diversity.

# PRECISE INK COST ANALYSIS

Durst Workflow Label is a user workplace solution for precise calculation of ink consumption as soon as a print job has been created. This permits swift, simple reaction

to customer enquiries so that offers can be compiled accordingly.

Color			Liter/1,000	€/1,000	€/m <sup>2</sup>
Cyan	<div><div></div></div>	21.4%	0.00105914	0.04925	0.00333
Magenta	<div><div></div></div>	28.3%	0.00521606	0.24255	0.01640
Yellow	<div><div></div></div>	54.0%	0.00438229	0.20378	0.01378
Black	<div><div></div></div>	18.8%	0.00021790	0.01013	0.00069
Ink cost (1,000)			0.01087539	0.50571	0.03420
Total cost of 1 copy			0.00001088	0.00051	...

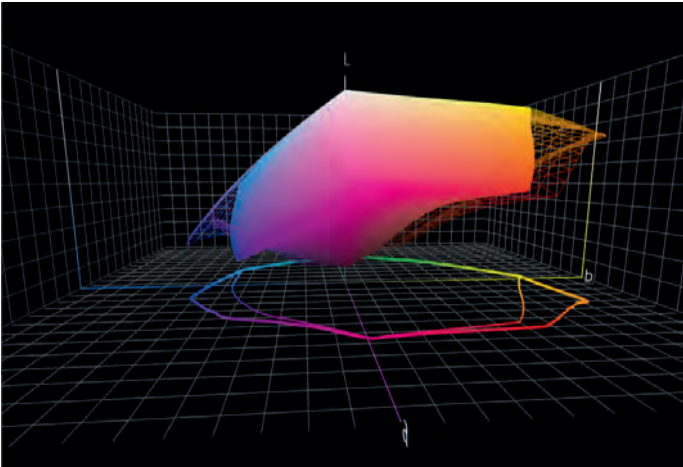
# AUTOMATIC DATA PREPARATION

More than 95 fix-ups make it quick and easy to prepare the print data for printing during the pre-press workflow. Automatic options such as spot color mapping, renaming spot colors, producing cutting lines based on a defined shape, allowing for tonal corrections or giving areas a

white background for example, can be applied easily to the print file using the browser. No additional graphics program is needed to open the file, thus saving time and boosting productivity. The customer's original data are always preserved and can be restored again if necessary.

# EXACT COLOR RENDITION

Material-specific or customer-specific colors, the Durst Workflow Label always ensures perfect reproduction also of defined customer colors.



---

# VARIABLE DATA PRINTING

---

Adobe Illustrator plug-ins make it easy to add variable elements such as text, bar codes, images or colors to a print job. When creating a variable element as serial number, it

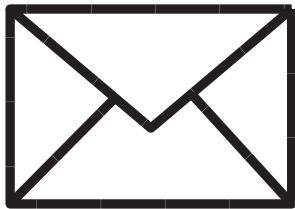
is even possible to manage without a database. Variable text can be made up of one or several colors and can also be aligned to any required shape.

- > Variable colors
- > Variable images
- > Variable text (size, font, alignment)
- > Variable and multicolor bar codes
- > Variable and multicolor QR-Codes
- > Creating serial numbers without a database

---

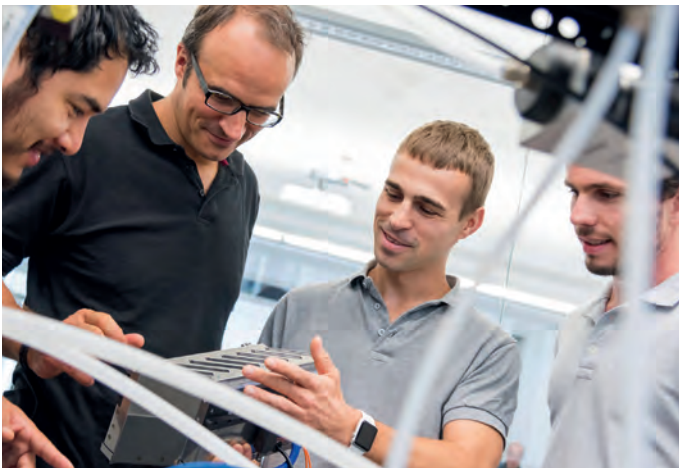
## THE BEST SOLUTION FOR YOUR BUSINESS

---



Let's find together the best solution for your business. Test our Tau series and get a demonstration of various applications. Alternatively you could order a selection of samples for getting a first impression of the variety of possibilities and the achievable print quality.

If you're interested in a Tau 330 RSC, Tau 330 RSC E or Tau 330 with low migration inks, please contact us: [label@durst-group.com](mailto:label@durst-group.com)

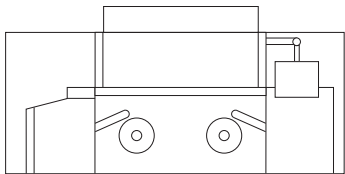


---

# DURST TAU 330 SERIES — CONFIGURE YOUR DIGITAL FUTURE

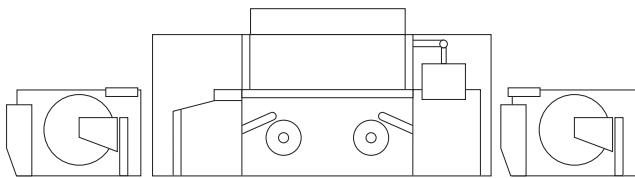
---

**TAU 330**  
as stand-alone solution



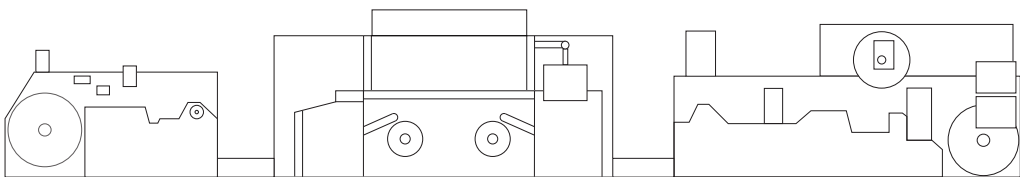
---

**TAU 330**  
with external jumbo unwinder  
and rewinder



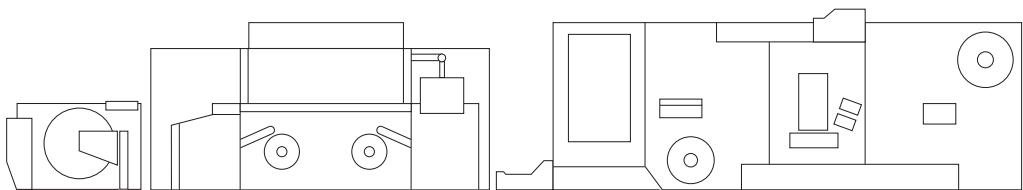
---

**TAU 330**  
with OMET XJet powered by Durst



---

**TAU 330**  
with external jumbo unwinder  
and 3rd party conventional  
finishing solutions





---

# OMET XJET POWERED BY DURST, THE CUSTOMIZABLE HYBRID SOLUTION

---



Tau 330 RSC in-line with OMET Xflex X6 conventional finishing options combines the best of both, the digital and conventional printing world.

OMET Xflex X6 accommodates a whole range of conventional printing and finishing options such as flexo stations for priming and/or varnishing, unwinder and rewinder with motorized roll lifter, web cleaner and corona treatment, rotary die cutting, slitting, and many more.

High material flexibility and significant cost saving potential with inline priming as well as sophisticated decoration applications for value added label production make the Tau 330 in-line with OMET Xflex X6 ideal for a cost effective and complete 'all-in-one' printing process.

- > Productive
- > Economical
- > Modular
- > Flexible

## CHECK LIST FOR HYBRID INTEGRATION

### > Step 1

---

- What business do you want to address?
- What applications are required to be printed?
- What substrates will be used for printing?
- What finished product needs to be supplied to clients?

### > Step 2

---

- Which pre-press workflow will be necessary?
- Which printing technology is most suitable to address your intended business?
- Which ink set is most suitable for your applications?
- Which finishing options are necessary to satisfy client expectations?

### > Step 3


---

- Share your requirements with the Durst solutions group.
- Come to Durst and see our solution capability and test your desired solution.

- Evaluate site & facility requirements.
- Put in place a project plan.

# TAU — RSC UV INK

With the release of the labelpress Tau 330 RSC, the new ink set Tau RSC UV Ink has been introduced. During development the focus was set on excellent flow characteristics with at the same time 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 Ink is available in the colors Cyan, Magenta, Yellow, Black, Orange, Violet, Green and White. The ink set is used in the Tau 330 RSC and Tau 330 RSC E.

Standard	
CMYK	
Orange	
Violet	
Green	
White	

- > Automotive

> Electronics









> Industrial
- > Retail

> Chemicals

> Personal Care

## LIGHT-FASTNESS

The light-fastness of this ink set was determined on raw material level. The subsequent table summarizes the corresponding results rated to the bluewool testing protocol.

Color		Blue wool rating
Yellow		up to 7 – 8
Magenta		up to 7 – 8
Cyan		up to 7 – 8
Black		up to 8
Orange		up to 3
Violet		up to 7
Green		up to 6
White		not applicable

## INK COMPLIANCE

### REACH and SVHC Compliance

All utilized raw materials are REACH compliant. Furthermore, the inks do not contain any known amounts of substrates of very high concern (SVHCs) at more than 0.1% (or the lowest concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 which results in the classification as a SVHC), or which could be subject to potential future authorization process (as outlined in REACH Art 56).

### 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.

---

# SERVICE AND CUSTOMER CARE

---



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 a trouble-free operation of your system, we support you with remote diagnostics and telephone service. And, whenever needed, within a very short time with direct service on site. We have elevated these tasks to our maxim.

---

Durst — a network to rely on.





**Durst Phototechnik AG**  
**Headquarters**

Julius-Durst-Str. 4  
39042 Brixen, Italy  
P +39 0472 810111  
info@durst-group.com  
durst-group.com

**Durst Phototechnik**  
**Digital Technology GmbH**

Julius-Durst-Str. 11  
9900 Lienz, Austria  
P +43 4852 71777  
office@durst-group.com  
durst-group.com

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.

Durst® is a Registered Trade Mark  
Copyright Durst Phototechnik AG  
EN | 03/2019

**durst**