

# Tau 330E

## The Economical Standalone UV Inkjet Label Printer



The Durst Tau 330E UV inkjet label printer combines industry-standard productivity with a cost-effectiveness that gives small and medium-sized businesses the ability to move into the lucrative digital label production sector. The basic technology, including the print quality and speed, comes from the flagship Tau 330 printing system. During its development, particular attention was paid to the equipment and operating costs in order to tangibly reduce the Total Cost of Ownership (TCO) and make it transparent.

In terms of configuration, there is a choice of printing width between 200 mm and 330 mm, as well as a choice of 4 or 5 colors (CMYK + W). The Tau 330E has two printing modes (standard and HD) and three ink systems are available for all kinds of applications relating to industry, labeling, primary packaging and pharmaceutical packaging.

# The attractive gateway to the digital label production sector

Durst is renowned across the market for the solid and robust construction of its machinery.

Its digital printing presses guarantee maximum reliability and are designed for 24/7 production. In addition to matchless production depth, Durst also offers a global service and support network that allows it to respond immediately to its customers' demands. The printing presses are also equipped with remote maintenance and alert systems designed to prevent any unscheduled machine downtimes.

During the development of the Tau 330E, emphasis was placed in particular on print quality and cost-effectiveness in order to give small and medium-sized businesses the opportunity to move into the growing digital printing market.

Proven Durst standards for industrial label production, such as print speed, print resolution and print data management, have been adapted from the successful Tau 330. The Tau 330E is available in two printing widths of 200 mm and 330 mm and in two color configurations with 4 (CMYK) and 5 colors (CMYK + Opaque White). The Tau 330E reaches a productivity of up to 48 running meters per minute as standard. In addition to standard printing mode at 720 x 360 dpi, the Tau 330E also offers HD printing at 720 x 1260 dpi, enabling razor-sharp texts, fine graphic details, cleaner color transitions and soft skin tones to be achieved.

## Tau 330E spectrum of applications

The Tau 330E can cost-effectively produce a range of applications in small and medium print runs. These include, for example, industry and safety type plates, durable electronics and automotive labels, labels for paints and varnishes, drinks and bodycare labels, household articles and chemicals, DIY and much more. The low-migration UV inkjet inks also offer new market opportunities and areas of application on the pharmaceutical and food market. The low-migration UV ink meets all specifications for straightforward use on primary packaging.



Recto/verso printing on cardboard material for tags and tickets.



## Tau 330E ink systems

Three ink systems are available for the Tau 330E:

- New, highly pigmented inks are a cost-effective universal solution which reduce the ink costs by up to 25% thanks to a lower demand for ink per running meter
- Industry inks for printing highly resistant labels and identifiers
- Low-migration inks for printing primary packaging in the pharmaceutical and grocery sectors





#### Web cleaning and Corona

In-line Corona pre-treatment and in-line web cleaning are additional options designed to ensure the best possible pre-treatment of the print material.

## Durst single-pass digital UV inkjet technology

The Durst Tau 330E is a digital standalone UV inkjet label printer for the cost-effective production of small and medium-sized print runs. The familiar material widths of 165 to 350 mm have been adopted from the successful Tau 330. The Tau 330E represents state-of-the-art digital UV inkjet technology, offering maximum reliability and productivity. The high printing speed of 48 running meters / min means that even medium-sized print runs can be produced quickly and in real time. With UV inkjet technology, production costs can be significantly reduced and even a count of 1 can be created cost-effectively. The transparent cost structure and the clear cost factors for consumables allow precise and reliable overall cost analyses. When it comes to maintenance and servicing agreements, Durst also offers total transparency for the Tau 330E.

For spare parts costs, such as the Xaar printing heads used, for example, Durst offers an attractive spare parts program.



#### Insetter

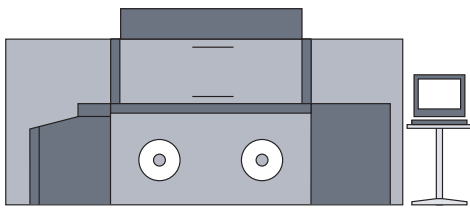
Print jobs with variable data, such as consecutive numbering, variable texts, barcodes, matrix or QR codes, as well as variable images.

"Late stage versioning" of pre-printed labels for different product versions and languages in small and medium-sized print runs and printing on pre-punched labels (blank labels).

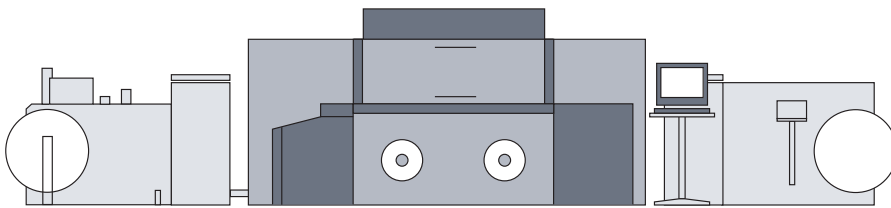
# Tau 330E - standalone and possible extensions

Uninterrupted production and fewer reel changes thanks to the new winder and unwinder jumbo reels. The tried-and-tested external jumbo winders and unwinders from the Tau 330 series can also be used on the Tau 330E.

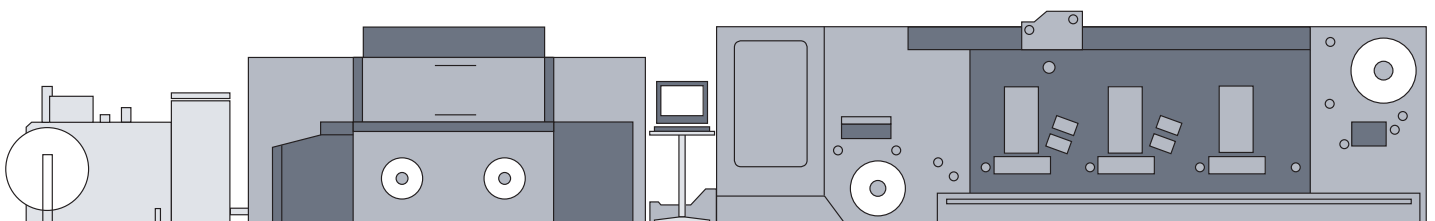
Roller diameters of 1000 mm and a roller width of max. 350 mm can be fitted and processed with ease. For fast and simple handling of the external winders, the system can optionally be equipped with motorized roller levers. The system also features an integrated splicing table and is equipped with a servo drive.



Tau 330E standard solution



Tau 330E with external winder and unwinder



Tau 330E with external unwinder and conventional downstream processing

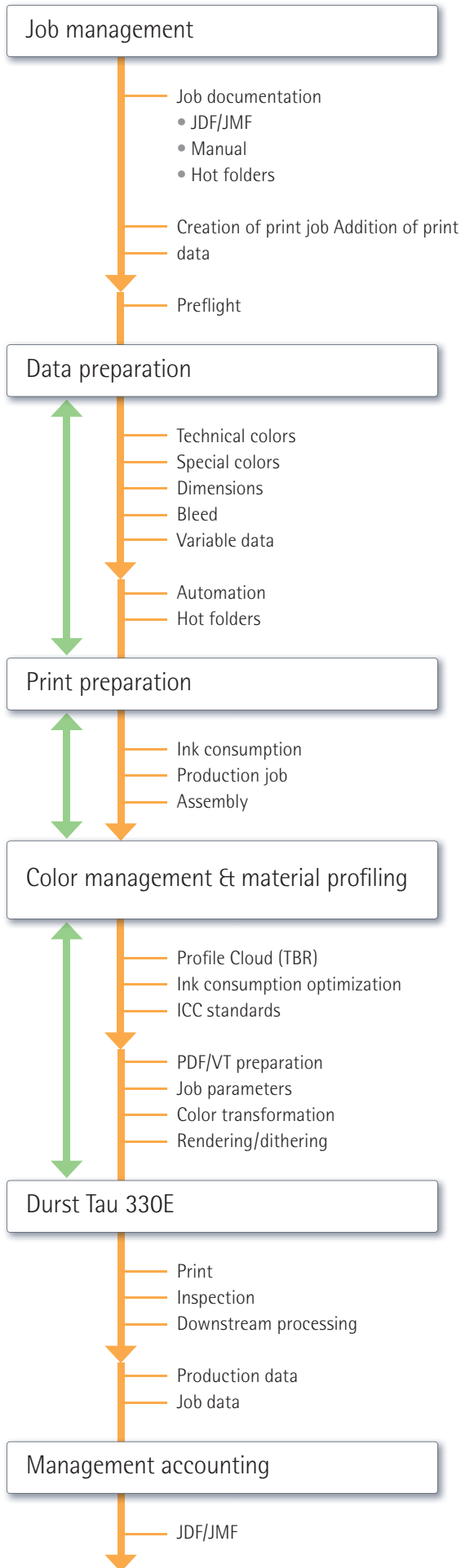
# Durst Workflow-Label

For the Tau 33E, Durst offers a separate label workflow system.

The comprehensive, end-to-end solution covers all processes from data management and print data preparation to output on the printer and the collection of all job-related information about the print job.

The software is accessed via a browser, which means that you do not need to install any additional applications and are also able to control the entire process via a tablet or smartphone.

The Durst label workflow system offers various modules. Starting with the basic package, you can add further modules at any time and therefore adapt the software to your needs. The various modules include solutions for variable data printing, early ink cost calculations, the flexible color management system designed for digital printing, job management and much more besides.



# Technical Data

## Printing technology:

Single-pass UV inkjet technology (inkjet technology with variable droplet size and grayscale technology and Xaar 1002 printing heads).

## Ink colors:

Highly pigmented UV inks, standard UV inks and low-migration UV inks, available colors CMYK, optional white.

## Print resolution:

Standard print resolution: 720 x 360 dpi (DOD)  
High-definition print resolution: 720 x 1260 dpi (binary)

## Print speed for full-color printing:

Standard printing mode: Up to 48 lin. m/min, HD printing mode: 37-40 lin. m/min.

## Production capacity:

Standard printing mode: Up to 950 m<sup>2</sup>/h HD printing mode: Up to 730 m<sup>2</sup>/h

## Printing width:

Tau 330 = max. 330 mm  
Tau 330/200 = max. 200 mm

## Roller width:

165 mm - 350 mm

## Substrate thickness:

Standard label material: 100 - 500 microns

## Substrate type:

Coated and uncoated paper, white and transparent film PP, PE, PVC, POPP

## Material intake/transport:

Basic configuration: Reel-to-reel. Reel diameter max. 680 mm  
Core diameter 76 mm Reel weight max. 120 kg  
Max. reel diameter with jumbo winder/unwinder: 1,000 mm (39.37 in.), core diameter 76 mm, max. reel weight 240 kg

## UV drying:

2 x 7.5 UV lamps

## Corona treatment:

Optional (in-line)

## Web cleaning:

Optional (in-line) single-sided or double-sided cleaning

## Operation:

User interface via monitor, keyboard and mouse

## Operating system:

Microsoft® Windows 7

## RIP and color management:

Durst Imaging Engine with integrated material profiling software. Can be extended with various software modules such as VDP, ink costs calculator via mobile/tablets, MIS connection, etc.

## Video inspection:

Space provided for the installation of camera systems from various manufacturers

## Warranty:

12 months from the date of installation for components can be extended through optional service agreements.

## Safety standards:

CE, correspond to applicable safety standards

## Power supply:

EU: 230/400 VAC, 3 Phase + N + PE, 50/60Hz, +/-10%  
NA: 3x208VAC, 3 phase 3 wire - 50/60 cycles, +/-10%

## Power consumption:

EU: 39 KVA 60 A  
NA: 40 KVA 110 A

## Dimensions (L x W x H):

4,550 x 1,750 x 2,200 mm  
Machine dimensions incl. jumbo winder/unwinder: 8,450 x 1,750 x 2,200 mm

## Weight:

4,000 kg  
Weight of the jumbo winder/unwinder: 800 kg each

## Temperature:

18 - 28 °C

## Ambient humidity:

40 % - 70 % non-condensing



The Durst logo, consisting of a horizontal bar with three colored segments (blue, orange, green) above the word 'durst' in a lowercase, blue, sans-serif font.

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IX4210EN - 05/2016