



Tau Series
Configure your digital future



Experience

80
Years

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 location in Lienz,
Austria

Durst Labels & Package Printing

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 inkjet technology offers the flexibility required for producing products more quickly, more efficiently and with optimum print quality in a wide variety of different applications.



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Productive Economical Modular Flexible

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





High End

Modular

24/7

Tau 330 Single Pass UV Inkjet

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.



Printing technology:

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

Print resolution:

Standard: 720 x 360 dpi (DOD); High Definition: 720 x 1260 dpi (binary)

Printing speed:

Standard: up to 48 m/min - 950 m²/h (10.225 ft²/h)
High definition: up to 40 m/min - 790 m²/h (8.503 ft²/h)

Print width:

Tau 330: max. 330 mm (13 in.); Tau 330/200: max. 200 mm (7,9 in.)

Ink/colors:

Standard UV inks, Low Migration UV inks
Available colors: CMYK; Optional: white, orange and violet

Substrate specification:

Width: 165 – 350 mm (6,5 – 13,7 in.); Thickness: >20 – 500 microns

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 (65 in.) – max. 120 kg (264 lb)
Roll diameter with jumbo unwinder/rewinder: max. 1.000 mm (39,37 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

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.

A large, industrial-grade UV inkjet printing system, the Durst Tau 330E, is shown in a factory setting. The machine is a tall, grey cabinet with a large, dark, recessed area on the left side where the printing process takes place. A yellow warning label is visible on the inner wall of this area. To the right of the main cabinet, there is a smaller, angled component, possibly a control unit or a part of the printing mechanism, featuring a small digital display and buttons. The background shows a modern industrial environment with wooden beams and large windows.

Economical
High Pigmented Inks
24/7

Tau 330E Single Pass UV Inkjet

The Durst Tau 330E UV inkjet printing system combines industrial productivity with impressive efficiency. Time-tested Durst standards for industrial label production, such as print speed, print resolution and print data management were applied to the successful Tau 330.

During development, special focus was placed on outfitting and operating costs so as to noticeably reduce the total cost of ownership (TCO).

The new high pigmented inks reduce the ink demand per running meter and therefore the ink costs by up to 21 %.



With Durst Tau 330E UV inkjet technology, production costs can be reduced considerably and one-off orders produced economically. The transparent cost structure for consumable materials enables precise and reliable overall cost analysis. The Tau 330E can be outfitted with a variety of expansion options. Corona treatment, web cleaning, inserters and variable data printing are also optionally available in addition to the selectable maximum printing width of 200 mm or 330 mm.

Printing technology:

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

Print resolution:

Standard: 720 x 360 dpi (DOD); High definition: 720 x 1260 dpi (binary)

Print speed for full-color printing:

Standard: up to 48 m/min - 950 m²/h (10.225 ft²/h)

High definition: up to 40 m/min - 790 m²/h (8.503 ft²/h)

Print width:

Tau 330: max. 330 mm (13 in.); Tau 330/200: max. 200 mm (7,9 in.)

Ink/colors:

High pigmented UV inks, Standard UV inks

Available colors: CMYK; Optional: white

Substrate specification:

Width: 165–350 mm (6,5 – 13,7 in.); Thickness: 100–500 microns

Substrate type:

Coated and uncoated paper, white and transparent film

PP, PE, PVC, PET, BOPP


Material transport:

Roll diameter: max. 680 mm (65 in.) – max. 120 kg (264 lb)

Roll diameter with jumbo unwinder/rewinder: max. 1.000 mm (39,37 in.) – max. 240 kg (529 lb)

Optional:

Corona treatment, web cleaning, inserter function, variable data printing



LFS 330

Laser Finishing System

Durst LFS 330 is an in-line digital laser finishing system for the Tau 330 UV inkjet label press that incorporates state of the art laser die cutting technology from Spartamics, with a powerful single or dual source 450 watt laser for highest productivity and automatic job changeover to handle multiple jobs in a single pass. While providing a complete digital end-to-end workflow, the complete Tau 330 and LFS 330 in-line system ensures highest productivity as well as superior print and cut quality on a wide range of substrates.

Transport Speed:

450 W Single Source - 350 mm wide with average cutting speed 30 meters per minute
450 W Dual Source - 350 mm wide with average cutting speed 50 meters per minute

Material Width:

165-350 mm

Material Thickness:

100-500 µm single and multi-layer

Materials:

paper, films, polyester, polycarbonates, metalized

Cutting Capabilities:

kiss, through, perforate, engrave, mark, score

Laser Type :

Sealed CO₂

Laser Spot Size:

210 µm or smaller

Life of laser:

approx. 20.000 hours

Options:

corona, UV varnish, lamination, semi-rotary die cutting – rotary sheeter – 2nd Rewind, label shifter

Job Management

Job Documentation
JDF/JMF
Manual
Hot Folders

Creation of print job
Addition of print data

Preflight

Data Preparation

Technical Colors
Special Colors
Dimensions
Bleed
Variable Data

Automation
Hot Folders

Print Preparation

Ink Consumption
Production Job
Assembly

Color Management & Material Profiling

Profile Cloud (TBR)
Ink Consumption Optimization
ICC Standards

PDF/VT Preparation
Job Parameters
Color Transformation
Rendering/Dithering

Durst Tau 330E

Print
Inspection
Downstream Processing

Production Data
Job Data

Management Accounting

JDF/JMF

Durst Workflow-Label

For the Tau 330, 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 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.
- The print data is ready for production even in preflight mode.
- Informative reports are available for customer communication.
- The print data is displayed clearly and in a modern manner in the browser window.
- An Adobe Illustrator plug-in is available for simple data preparation.
- 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 (Delta E94/Delta E2000 material-related).
- Ink consumption can be optimized through different profiles (low budget, standard or best match).
- All process steps are documented and can be retrieved and repeated at any time.



OMET Xflex X6, the customizable Hybrid Solution

Tau 330 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.

Check List for System 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?

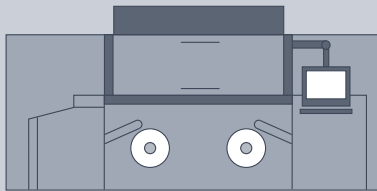
Step 2

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?

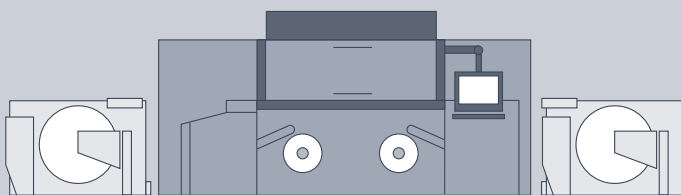
Step 3

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.

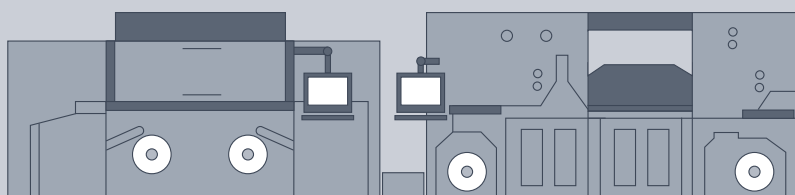
Tau 330 – Configure Your Digital Future



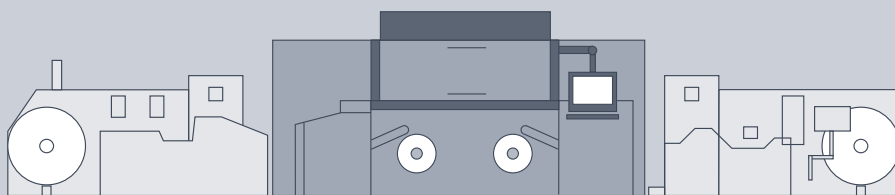
Tau 330 as stand-alone solution



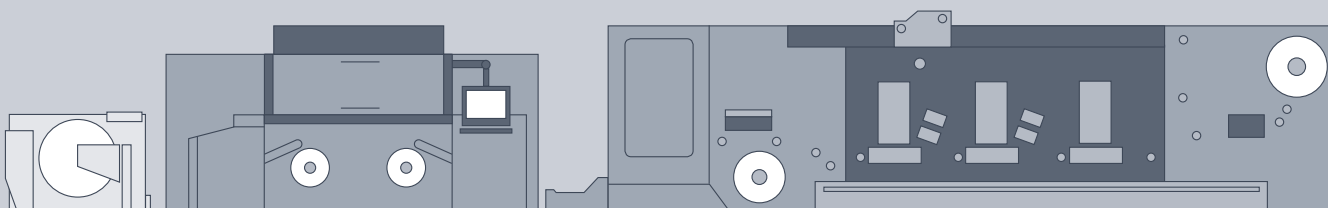
Tau 330 with external Jumbo Unwinder and Rewinder



Tau 330 with LFS 330 (in-line Laser Finishing System)



Tau 330 with OMET XFlex X6



Tau 330 with external Jumbo Unwinder and 3rd party Conventional Finishing Solutions

Service and Customer Care

Durst. 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 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.





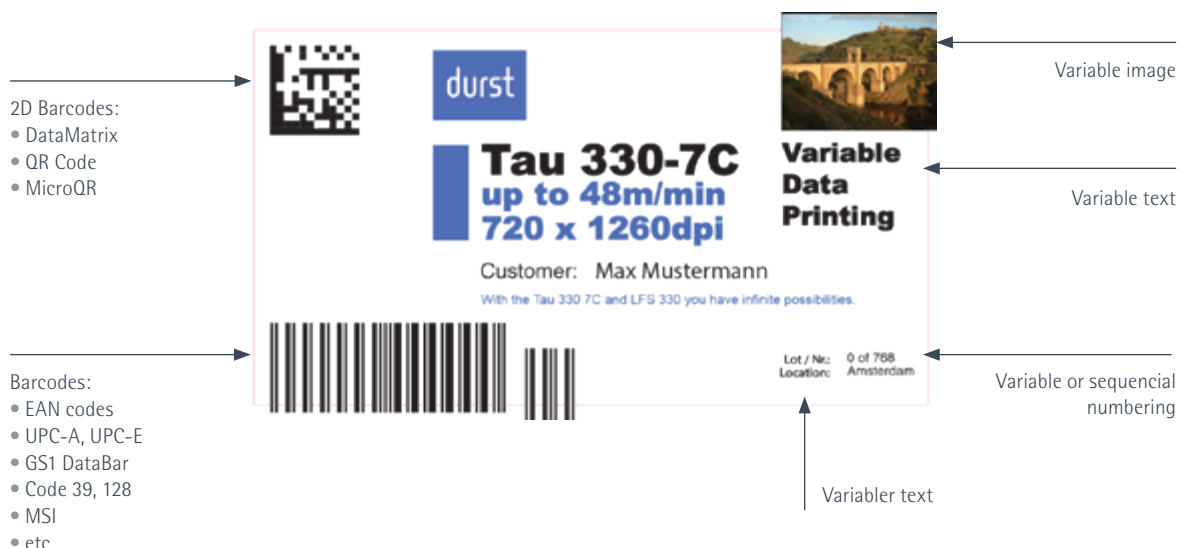
Applications

Are you interested in a Tau 330 or 330E? Please contact us at: label@durst-group.com

Let's find together the best solution for your business. Test our Tau 330 on site 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.



Variable Data Print jobs containing variable or sequential numbering, variable text, barcodes, matrix or QR codes as well as variable images.





durst

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