EN

Tau Series

Configure your digital future

80
Years
Experience
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 Series, Durst offers a variable, versatile, adjustable and configurable machine system which can be individually adapted to customer needs.

High Print Resolution

High Speed

Large Color Space

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 feet per minute).
This corresponds to a production capacity of 1,485 m^2 per hour (15,984 sqft per hour) at a print resolution of 1,200 x 1,200 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 98% 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, as a printing system in combination with the inline laser finishing system LFS 330, or as a hybrid solution with the addition of conventional finishing options in the OMET XFlex-X6 series. This gives the user unlimited flexibility in terms of materials and a broad range of applications.

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: 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 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 (26.5 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 100%, video inspection, variable data printing

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.

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.

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 m^2/h (10.225 ft^2/h)
High definition: up to 40 m/min - 790 m^2/h (8.503 ft^2/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

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, insetters 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 m^2/h (10.225 ft^2/h)
High definition: up to 40 m/min - 790 m^2/h (8.503 ft^2/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

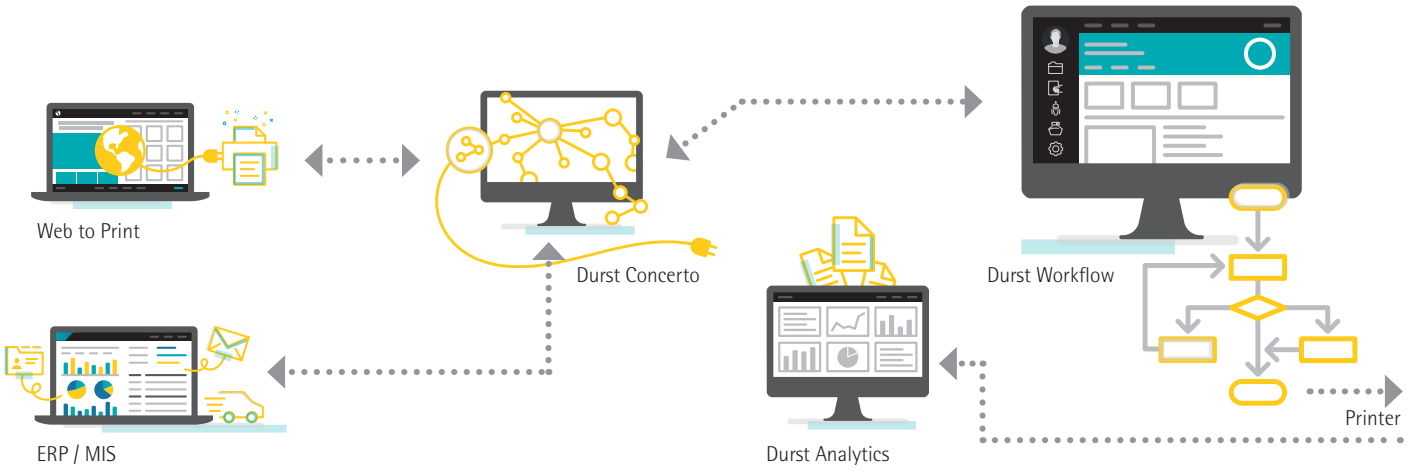
Substrate specification:
Width: 165–350 mm (6,5 – 13,7 in); Thickness: 100–500 microns

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, insetter function, variable data printing

Durst Workflow-Label



Durst offers a separate label workflow system for the Tau 330 series. The 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 from mobile devices without any additional installations.

The Durst Workflow system can be extended at any time with a range of modules for variable data printing, ink consumption calculation, high-speed RIP, grid charts & color book compilation, operating several printers at the same time and much more. The Durst Concerto communication server permits the integration of external MIS/ERP systems as well as web-to-print portals.

In the process chain, the DW-L ensures:

- Specific management of job data and information.
- Viewing of the job status at all times for user groups.
- Defined interfaces between customer support, media designers, media technologists and controlling.
- Checking and normalizing of print data during upload.
- Availability of informative reports for customer communication.
- Clear, modern display of the print data in the browser window.
- Availability of an Adobe Illustrator plug-in for simple data preparation.
- Variable data printing (texts, numbering, images, shapes, colors and bar codes) directly via the browser or via Adobe Illustrator.
- Ink cost calculations right from the first minute.
- True-color measurement values for special colors (Delta E76 and Delta E00 material-related).
- Optimized ink consumption based on different profiles (low budget, standard or best match).
- Documentation of all process steps for retrieval and repetition at any time.

PE85 Topwhite 78m_B (6) | [Tau 330 RSC]

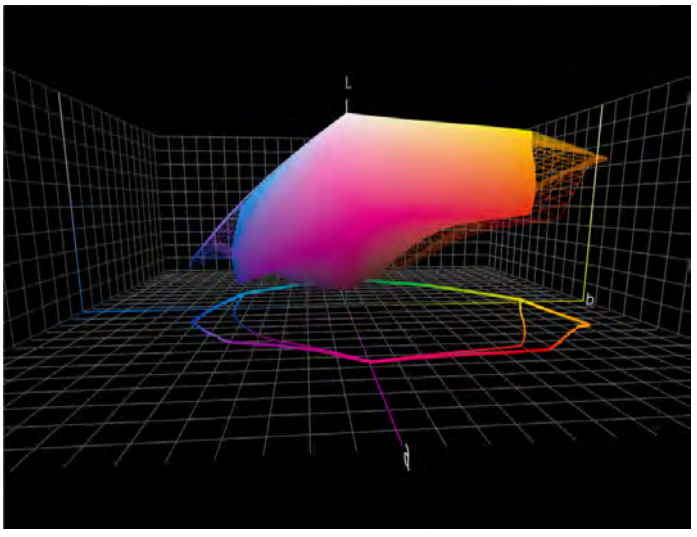
Color		Liter / 1000	€ / 1000	€ / m²
Cyan	21.4%	0.05530373	2.37806	0.06143
Magenta	28.3%	0.07334580	3.15387	0.08148
Yellow	54.0%	0.18638600	8.01460	0.20705
Black	18.8%	0.05825988	2.50517	0.06472
Ink Cost (1000)		0.37329541	16.05170	0.41468
Total Costs of 1 Copies		0.00037330	0.01605	

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.

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

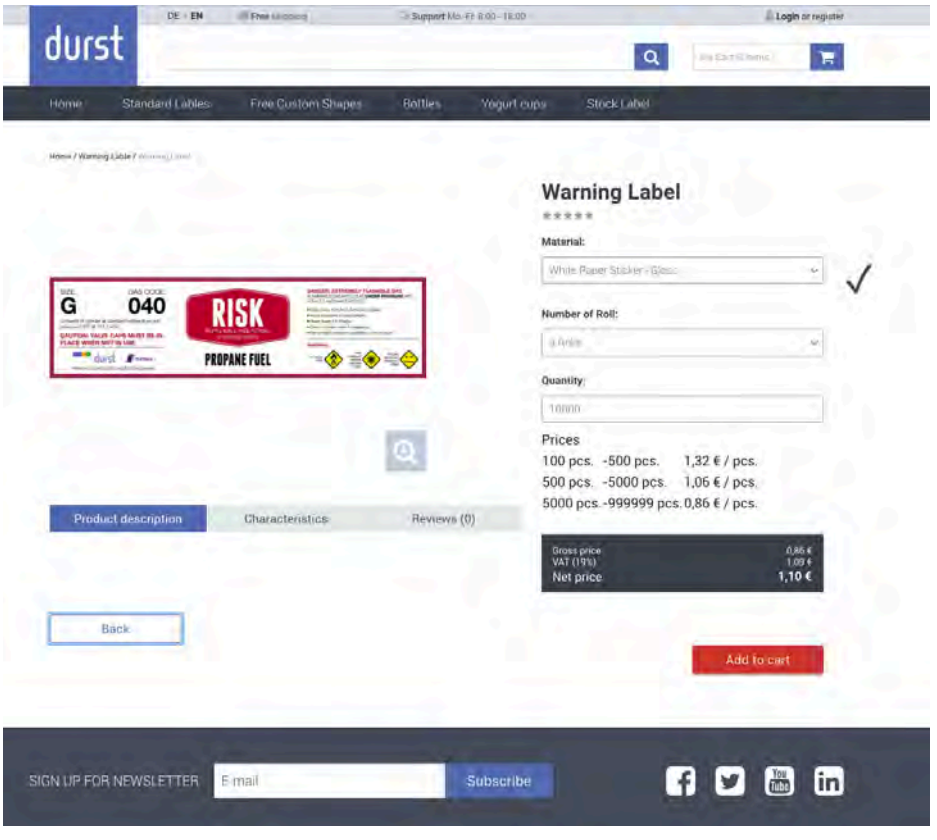
Proven calculation methods ensure exact printing of defined spot colors. With the possibility of creating system-wide, material-specific or customer-specific colors, the Durst Workflow Label always ensures perfect reproduction also of defined customer colors.

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.
Durst Concerto 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 thus a powerful tool for capturing the online market and giving a company greater diversity.



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 Spartanics, 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

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.

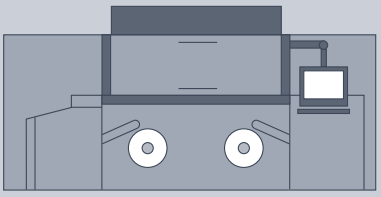
Check List for System Integration

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?

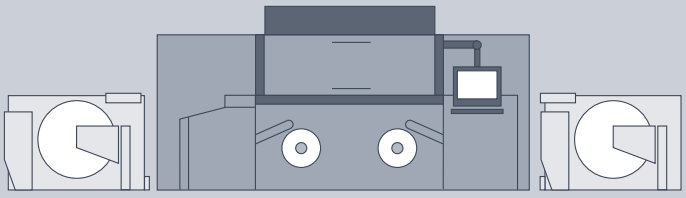
Step 2
Which pre-press workflow will be necessary?
Which printing technology is most suitable to address your intended business?
Which ink set is most suitable for your applications?
Which finishing options are necessary to satisfy client expectations?

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.

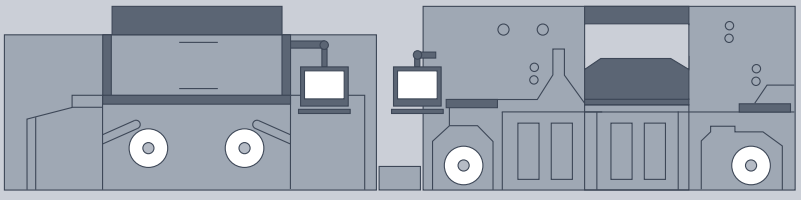
Tau 330 – Configure Your Digital Future



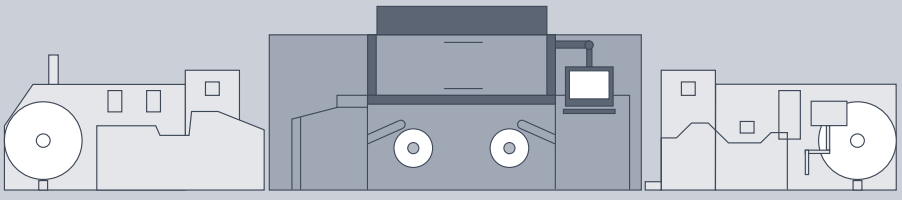
Tau 330 as stand-alone solution



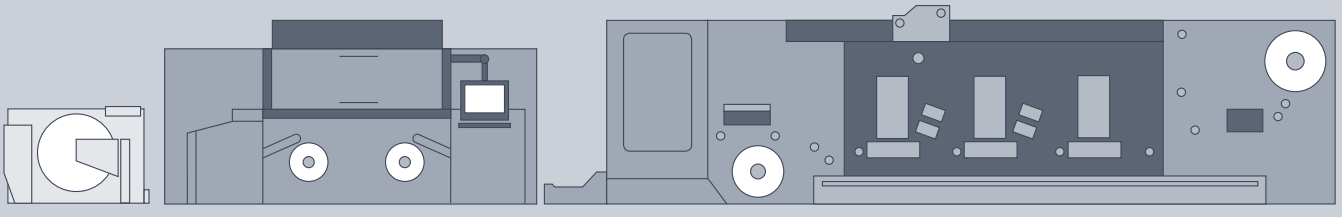
Tau 330 with external Jumbo Unwinder and Rewinder



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

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 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 →

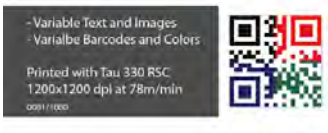
Durst Workflow Label
Variable Data Printing

Variable images →

← Variable text
Free choice of size and font
Freely configured alignment

← Variable bar codes
Multicolor bar codes

Serial numbers
Can be created without a database →



Service and Customer Care

Durst. A network to rely on.
We stand for the steadyness 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

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