Tau 330
Digital UV Inkjet
Narrow Web Label Press

Digital technology is one of the most exciting areas in label printing and converting today, impacting on everything from pre-press to printing, personalization and finishing. The opportunities of digital technologies are varied and extensive, offering huge potential for new products and services in a rapidly changing market place with an increasing demand towards personalised, custom products in short and medium run.

With digital technology you will be able to face new service requirements, enter new niche markets, increase profitability and add value to your business. Digital technology will increase your flexibility by offering new services and at the same time drive your costs down.

This is your chance to get ahead of the curve! Look at the Tau 330 Digital UV Inkjet Press and explore its unique possibilities to extend your services by delivering high quality short and medium run print jobs.

Tau 330 is ideal for application areas such as industrial and security type labels, durable electronics and automotive labels, paint, specialty food & beverage, body & health care, household chemical, DIY, ... and many more, but also for late stage versioning or applications on aluminum foils the Tau 330 with its streamlined digital workflow and outstanding printing speed will be the right choice for you to face the economic challenges and new service requirements of the current and future market trends.

Durst Single Pass Digital UV Inkjet Technology for label printing applications

The Durst Tau 330 is a Digital UV Inkjet Label Press designed for short and medium run narrow web applications covering web widths from 16,5 cm (6,5 in.) to a max. 33 cm (13 in.), running at a printing speed of up to 48 m (157 ft.) per minute. With this, the system offers very high size flexibility as well as highest productivity for smaller label size jobs.

Tau 330 is available in 2 print width:

- Tau 330 with print width up to 330 mm
- Tau 330/200 with print width up to 200 mm

Tau 330 is built to the latest state of the art digital UV Inkjet technology to guarantee maximum reliability and production efficiency, handling short run jobs very economically, regardless if only one label, a few hundred labels or several thousand labels are needed. This will convert unprofitable short run jobs on your conventional presses into very profitable print jobs on your Tau 330 digital UV inkjet press.

Equally important is Tau's printing resolution with variable drop size and grayscale technology that delivers an apparent resolution of over 1000 dpi, providing nearly photographic imaging quality with clean text, smooth gradients (vignettes) and homogeny solid colors.

Durst's proprietary Single Pass UV Inkjet Technology offers a whole new range of color configurations to cover the majority of requested label printing applications. Its standard color configuration CMYK can be completed with optional White as well as optional Orange and Violet color thus offering up to 90% coverage of the Pantone color gamut (depending on substrate).

With UV Inkjet technology, lower production costs are achieved thanks to affordable ink-only cost models – users pay for the ink they use – nothing more, nothing less. It is simple and easy – and in line with conventional industry practices. Additionally, UV Inkjet technology means less material pre-treatment and less coating postpress work is needed compared to other technologies.

Tau UV inks are available directly from Durst. Their formulation and color gamut have been carefully adapted to meet the high demands of the label industry. Inks are delivered in 5 liter containers with an easy and secure refill system.

An industry-leading RIP software (powered by ESKO ARTWORK) with built-in substrate calibration and color management ensure high image quality and consistency, especially important when printing repeat short run jobs. The optional Variable Data Printing module provides increased service flexibility for full label-to-label variability.

Durst's solid & robust mechanical construction on both the digital press and the digital converting & finishing devices ensure high reliability for a heavy duty 24/7 production.

Built-in maintenance functions such as automated print head cleaning help to significantly increase performance and machine uptime.

Tau 330 digital UV inkjet applications include:

Short & medium run printing of a variety of label jobs such as industrial and security type labels, durable electronics and automotive labels, paint, specialty food & beverage, body & health care, household chemical, DIY, ... and more.

Printing on aluminum foils for blister and other packaging applications

Late stage versioning of preprinted label jobs and printing on pre-die-cut label stock (blank labels)

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

2D Barcodes:
- DataMatrix
- QR Code
- MicroQR

Barcodes:
- EAN codes
- UPC-A, UPC-E
- GS1 DataBar
- Code 39, 128
- MSI

Variable image

Variable text

Variable or sequencial numbering

Variable text

Durst's Tau 330 digital UV inkjet printing process offers a fast and easy workflow

The Tau 330 is equipped with industry-leading RIP software that provides a fully automated data workflow. An electronic job ticket contains all relevant data that are needed to drive the system. Incoming files will be ripped, color management will be applied and the "ready to print" files will be automatically sent to the queue manager of the press. For priority purposes, jobs can be re-arranged in the printing queue. Literally in less than a minute, files that were sent from a design station will be ready for printing.

Appropriate press profiling and our dedicated UV inks (CMYK + W) match a high percentage of the Pantone color gamut without costly custom PMS inks.

Durst's Tau 330 digital UV inkjet printing process cuts production cost, due to:

- Its outstanding printing speed providing fastest production time, thus reducing labour and machine hour costs.
- It uses ink costs of actual printed area only, instead of per-click cost models.
- It supports more standard substrates with less need for pre-coated or special coated materials.
- Setup times are less than 5 minutes including substrate loading/ replacement.

Durst's Tau 330 digital UV inkjet printing quality differentiates, because:

- Its basic CMYK color configuration can be completed with White as well as Orange and Violet color thus offering a up to 90% coverage of the Pantone color gamut.
- It creates images with vivid and superior color appearance compared to conventionally printed Flexographic images and at the same time it requires far less individual color inks to achieve equal results.
- Durst UV Inks generate a perfect opaque "White" color in single pass that is superior to Flexographic.
- It delivers repeatable quality from the first to the last label, from the first run to following runs that are produced over longer time periods.
- It provides a perfect color-to-color registration, thus eliminating the color-to-color trapping that can be visible on images printed with conventional flexographic technology.
- Durst UV Inks are very durable, offering a high degree of light fastness and scratch & chemical resistance, thus reducing the need of post-press treatment (less lamination or varnishing/coating needed).

Durst's award wining worldwide service and support, a network you can rely on

We guarantee our customers the reliability and efficiency of our products. However, when needed you can count on our worldwide service network and support teams.

Remote diagnostics and support as well as being on-site within shortest possible time to optimize your systems uptime are tasks we set and stand for in order to help you to make the best possible use of our product.

Technical Data

Printing technology:
Single-Pass UV Inkjet Technology (drop on demand + variable drop size) with Xaar 1001 hybrid side shooter grayscale print head technology.

Ink colors/printing modes:
CMYK, optional Orange & Violet, optional White.

Image quality:
720x360 dpi grayscale technology provides approx. 1000 dpi apparent resolution

Printing speed at full color:
- up to 48 lin. m/min, (157,2 lin. ft.) per min
- up to 2.880 lin. meters per hour, (9.432 lin. ft.) per hour
- 23.040 lin. m, (75.456 lin. ft.) per 8h shift

Production capacity:
Up to 950 m² (10.225 ft²) per hour

Print width:
Tau 330 = max. 33 cm (13 in.)
Tau 330/200 = max. 20 cm (7,9 in.)

Roll width:
16,5–35 cm (6,5–13,7 in.)

Substrate thickness:
0,1–0,3 mm for self-adhesive Material, > 0,02 mm for aluminum foil

Substrate type:
Coated & uncoated paper, white or transparent film PP, PE, PVC, POPP, Aluminum foil

Substrate input system:
Base configuration: Roll-to-roll. Roll diameter max. 61 cm (24 in.) Core diameter 7,6 cm (3 in.), Weight max. 120 kg

Corona treatment:
Optional (in-line)

Web Cleaning:
Optional (in-line)

Substrate output system:
Print to rewind

Front-End:
Touch screen user interface

Operating system:
Microsoft® Windows Server

RIP Station:
RIP software and built-in Color Management. Optional Variable Data Printing Module for RIP software

Video Inspection:
Optional Video Inspection with automatic detection of printing defects

Service & support:
- Remote diagnostics
- Full coverage with optional service contracts

Warranty:
12 months from date of installation on parts, extendable with optional service contracts

Safety standards:
Complies with current standard safety regulations

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 (W x D x H):
455 x 175 x 220 cm (179 x 69 x 87 in.)

Weight:
3.000 Kg (6.614 lbs)

Temperature:
18–28 °C (64–82 °F)

Humidity:
40% - 70% non condensing

CMYKW

durst

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