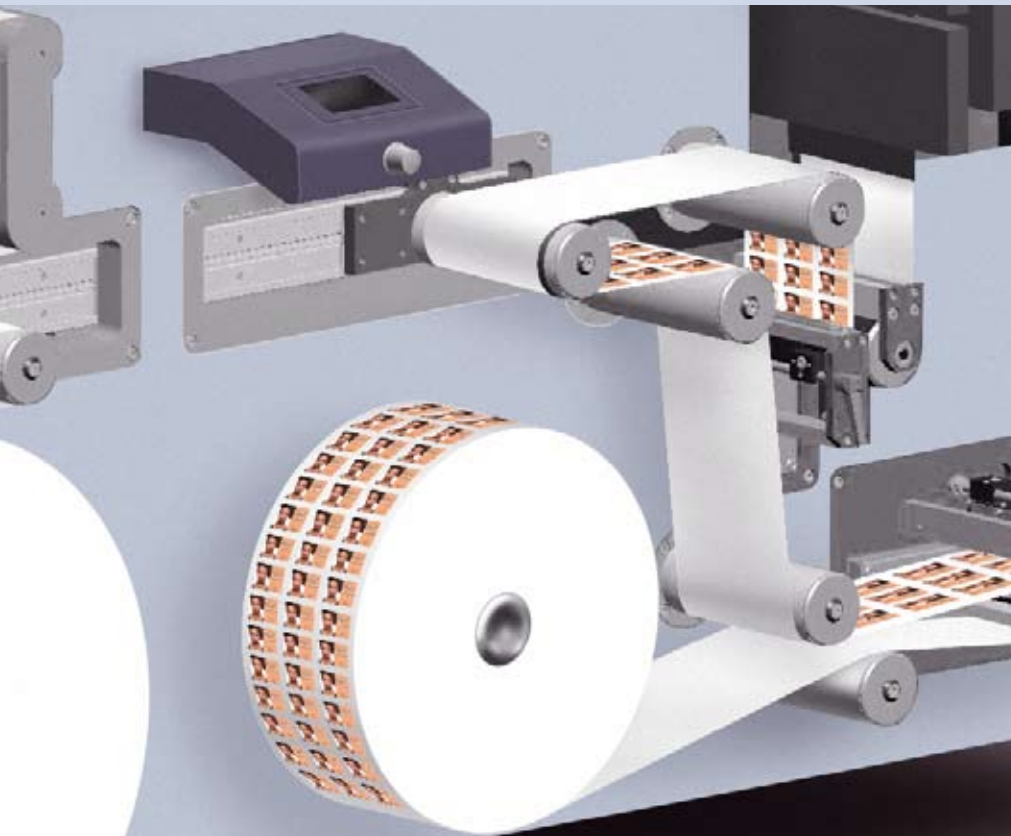


# Tau 150

## Digital UV Inkjet

### Narrow Web Label Press



In an age of constantly changing market trends, it is obvious that product life cycles get short and product diversification requirements become essential market needs. Labels are no longer just labels but tools for brand recognition and brand protection. In addition test marketing becomes an essential method to differentiate products. All this results in an increasing demand for short run label jobs that need to be produced in an economic way. In this given environment, a digital label printing process will become a "must have" for every label converter.

With digital technology you will be ready to face these 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 150 Digital UV Inkjet Press and explore its unique possibilities to extend your services by delivering high quality short runs print jobs. Compared to other digital technologies, Tau 150 stands for significantly faster turnaround times resulting in a high cross-over point versus conventional Flexographic presses.

Ideally for application areas such as specialty food & beverage, health care, household chemical, car care, DIY, personal hygiene ... and many more, Tau 150 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 150 is a Digital UV Inkjet Label Press designed for short-run narrow web applications covering web widths from 10 cm (4 in.) to a max. 16,5 cm (6.5 in.). With its unique Single Pass UV Inkjet Technology, the system reaches an outstanding printing speed of 48 m per min. (157 ft. per min.), resulting in substantially improved return on investment for the label printer.

Tau 150 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 more than 40.000 labels are needed. This will convert unprofitable short run jobs of your Flexographic presses into very profitable print jobs on your Tau 150 digital UV inkjet press.

Equally important is Tau's printing resolution with variable drop size and 8 level 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 features 5 UV ink colors CMYK + White. Thanks to the available white color, a much wider range of possible applications on transparent and colored substrates can be covered.

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 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 EskoArtork) 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 ensures high reliability for a heavy duty 24/7 production.

Built-in maintenance functions such as automated print head cleaning and auto-nozzle-failure-compensation help to significantly increase performance and machine up-time.



# Advantages of Durst's "digital" UV inkjet technology

Digital technology is one of the most exciting areas in label printing and converting today, impacting on everything from pre-press to printing, personalisation 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 run.

In comparison to conventional processes, which require a physical printing plate to print images on a substrate and need substantial time and material to get ready for printing, Durst's digital label printing process offers a much more simple and cost effective way of printing short run jobs.

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

The Tau 150 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 digital UV inkjet printing process cuts production cost, due to:

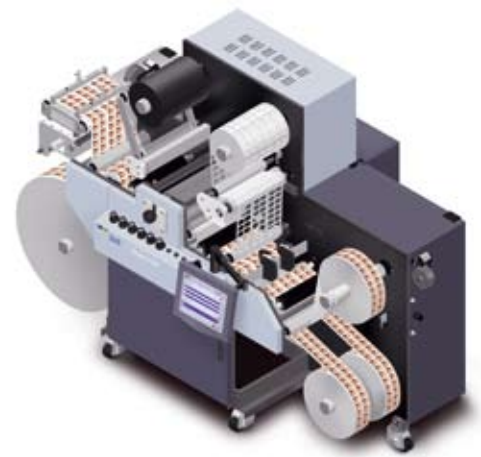
- Its outstanding printing speed providing fastest production time, thus reducing labour and machine hour costs.
- It uses ink costs of actual printed area only, instead of per-click cost models.
- It supports more standard substrates with less need for pre-coated or special coated materials.
- "Make ready" times are less than 5 minutes including substrate loading/replacement.
- It consumes less than 3 meters (9 ft.) of linear make-ready material.

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

- 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.
- 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.
- It stands for high image and superior text quality, smooth gradients from single or multiple colors and homogen solid color areas.
- It ensures high light-fastness that makes labels last longer for outdoor applications.
- It ensures good ink adhesion that makes labels more scratch resistant.

# Complete end-to-end solution

Tau 150 is available as a complete end-to-end solution with an off-line Rotoworx™ 330 converting & finishing system, designed to make short-run label conversion and finishing more profitable. It is complete with product unwind, semi-rotary die-cut, lamination, matrix rewind and two product rewind modules. To match the productivity of the Tau press offers Rotoworx™ 330 HS an equivalent speed of up to 50 m/min (~160 ft./min.). The system features a field-proven web transport based on Durst's patented ISO tensioning technology with high registration accuracy of +/- 180 microns.



# Service and support

**Durst's award winning 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 6-42 pl) with Xaar 1001 hybrid side shooter grayscale print head technology.

## Ink colors/printing modes:

5 colors CMYK + White.

## Image quality:

720 x 360 dpi (8 levels grayscale technology = approx. 1000 dpi apparent resolution)

## Printing speed at full color:

- 48 lin. m/min, 157,2 lin. Ft. per min
- 2.880 lin. meters per hour, 9.432 lin. Ft. per hour
- 23.040 m, 75.456 lin. Ft. per 8h shift

## Image size:

Image width = max. 14 cm (5.5 in.)

## Web width:

10 – 16,5 cm (4–6.5 in.)

## Substrate thickness:

0,1 – 0,3 mm

## Substrate type:

Coated & uncoated paper, PVC, PP, PE, and label stock

## Substrate input system:

Base configuration: Roll-to-roll. Roll diameter max. 61 cm (24 in.) Core diameter 7,6 cm (3 in.)

## Substrate output system:

Print to rewind

## Front-End:

Touch screen user interface

## Operating system:

Microsoft® Windows XP® Professional

## RIP Station:

RIP software and built-in Color Management. Optional Variable Data solution for RIP software

## Finishing solution:

Durst Rotoworx™ 330 converting & finishing solution.

## Warranty:

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

## Safety standards:

CE, complies with current standard safety regulations.

## Power supply:

400 VAC, ±10 %, 3 phase, 30-60 Hz

## Power consumption:

tbr

## Dimensions (W x D x H):

258 x 199 x 210 cm (8,2 x 6,5 x 6,8 ft.)

## Weight:

1.800 Kg



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## Durst Phototechnik AG

### Label Printing Division

Vittorio-Veneto-Straße 59

I-39042 Brixen, Italy

Telefon +39 04 72 81 01 11

Telefax +39 04 72 83 09 80

www.durst-online.com

info@durst.it

## Durst Canada Inc.

50 Lindsay Avenue,

Dorval, QC, Canada, H9P 2T8

Telephone: +1 514 633 0550

Fax: +1 514 633 8558

info@durstcanada.com



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