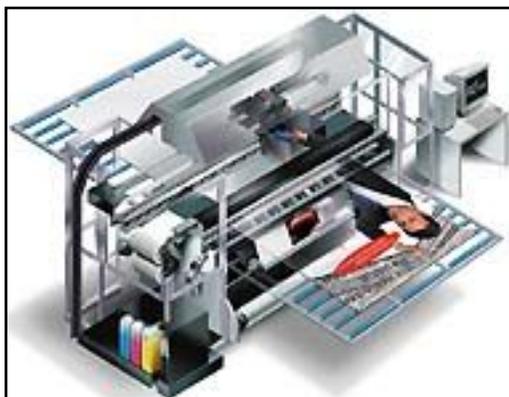# Rho 160 - Large Format Direct Digital Production Inkjet Printer/Press

Durst Rho 160 is a High Performance and High Speed Production Inkjet Printer/Press, designed for heavy duty, continuous production in the photographic commercial, screen printing and printing industry. This new screenless large-format direct digital printing device offers high flexibility and efficiency. Printed materials do not require any additional finishing and are ready straight off the press.

The Durst Rho 160 is a breakthrough in wide format printing. It offers an unbeatable combination of high quality printing, fast production speeds, low cost consumables and high flexibility with easy and fast media change with minimum waste to make wide-format printing simpler and more profitable than ever before.

Key Features of the Durst Rho 160:

Direct digital printing to uncoated flexible and rigid media
Prints directly to standard, uncoated roll media and boards up to 160 cm / 62" wide and rigid material up to 40 mm / 1.58" thick for lowest production costs and highest flexibility.

Computer to Print Technology
Durst´s Direct Digital Computer to Print technology eliminates the need for time-consuming and costly film and screen setups and allows you print your files at lower costs and in a fraction of the time traditional methods require. You can produce hundreds of prints as economical as One-Off´s with fast turnaround times required in a dynamic environment. The key advantages of the Durst´s Direct Digital

Computer to Print technology vs. traditional screen printing are:

- Eliminates film and screen setup costs
- Prints economically from one-off to hundreds of prints
- Allows variable data printing at no additional costs and in a fraction of the time
- Faster turnaround times
- Can print any length and to virtually any substrate including mesh and fabrics
- Requires no setup
- Allows to print any document straight or mirrored for special application at no additional costs or setup times
- Uses little floor space

Large choice of media
With the Rho 160 you can print onto virtually any flexible and rigid substrate like paper, corrugated board, foam centered board, textile/fabrics, mesh, vinyl, self-adhesive vinyl, banner material and many other standard materials used in the screen industry.

Eliminates mounting prints onto boards
The direct to board printing feature eliminates the additional step of mounting prints onto the final board, reduces the overall production costs and time.

Pigmented inks with wide color space for indoor and outdoor applications
Rho 160 uses UV curing, pigmented inks featuring long UV-durability with wide color space for indoor and outdoor applications, such as

- P.O.P. Advertising
- Display graphics
- Posters
- Signage and banners
- Any type of rigid boards
- Long-term outdoor graphics
- Exhibition graphics and signage
- Stage graphics
- Wall murals
- Backlit displays
- Flags
- Vehicle graphics
- Bus shelters
- Bus Wraps
- Fleet graphics
- And many more applications, you name it

High flexibility with quick changes to satisfy your customer needs
Patented roll-to-roll and sheet fed design (Durst Patented Flatbed Technology) featuring a very high flexibility and easy and fast media change from roll paper to Vinyl to fabrics to screens to boards, etc. with minimum media waste and no size limitations. Print sizes exceeding the max. paper width are automatically divided-up and exposed in sections. Operator can select how oversized panels are split. The desired overlap is adjustable. This unique design allows to virtually print any size.

Simple one man operation
A clearly designed and easy-to-use industry leading interface guarantees truly simple operation. The Durst Rho 160 uses exactly the same UNIX-based user interface as the industry's leading Durst Lambda Large Format Digital Photo Printers with over 600 users worldwide. The entire machine can be operated by only one person, including loading and unloading media.

Unattended high speed printing
The Rho 160 allows to load media lengths up to 400 m for long print runs and completely unattended printing for up to 4 hours (depending on roll length) with a print speed of up to 60 m2 per hour at 360 dpi.

Continuous ink supply
The Durst Rho 160 uses large, refillable ink containers for long run printing and to avoid running out of ink in the middle of a job.

Heavy-duty construction for longterm precision and durability
The Durst Rho 160 features a very solid construction designed for continuous operation with longterm precision for highest print quality and reliability.

Powerful Compaq XP1000/667 MHz (DEC-Alpha) workstation with Compaq True64 (Digital UNIX) operating system (64 bit) and integrated high performance PostScript 3 RIP by Durst Dice America (400 MB in approx. 1 minute with automatic file conversion).

Additional functions

- **Autospooling function with Hot Folders and ASCII file support** for fully automated, unattended printing
- **Autonesting** feature for automatically printing different files and different print sizes side by side
- **Batch processing** for very fast operation of documents with multiple pages or print runs
- **Multiple Printing:** Print runs are automatically and on-the-fly

duplicated (cloned) and printed side by side for fast operation, minimum disk space and optimal use of large media widths or board sizes
- **High productivity** thanks to the patented, continuous feed technology
- **Fully automatic cutting with the Durst Autocutter XY**. The Durst Rho 160 prints the Durst Autocutter Barcode Information (Patents Pending) for fully automated, unattended cutting of selected media with the Durst Autocutter 62 XY.

Technical Data

● Printing system	Patented Durst Flatbet Printing System with Piezo-Inkjet with special, vibrant UV curing pigmented inks (CMYK)for indoor and outdoor applications
● Resolution:	360 dpi
● Maximum printing width:	Up to 160 cm (62")
● Maximum print/media length:	Limited by media length only
● Maximum media thickness:	40 mm / 1.58"
● Input file formats:	TIFF, JPEG, PostScript 3 and PDF
● Productivity:	Approx. 40 sq meter/ 400 sq ft per hour at highest print quality Approx. 60 sq meter/ 600 sq ft per hour at standard print quality
● Media:	Flexible (Roll to roll) or rigid media (boards). The Rho 160 accepts a large range of uncoated and coated media for various purposes (Vinyl, paper, fabrics, mesh, boards, corrugated board, etc.)

● Operation:	The system is controlled by a powerful UNIX-Workstation with integrated high-performance Durst Dice America Cheetah RIP. The operation of the Rho 160 is identical with the Durst Lambda – Large Format Direct Digital Photo Printer.
● Dimensions:	4 x 4.5 m (13 x 15 ft)
● Weight:	approx. 1800 kg / 3960 lb
● Power supply	208 VAC ± 10%, 3 phase/60 Cycles, or 230/400 VAC ± 10%, 3 phase + N/50 Cycles

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