

DataScreen®

DS-III Highend-PostScript-Level3-Software-RIP

Windows Highend RIP Server Solution

Installs under Microsoft Windows server operating systems

Platform-independent

Direct integration on Mac or PC using standard programs such as QuarkXPress, InDesign, Illustrator, Photoshop, Freehand etc.

Own AppleTalk services

For Windows server operating systems, Mac support is at hand without additional software

Complete PostScript Level 3 RIP

PDF-RIP direct
pre-separated and unseparated PS files (composites) direct to RIP
PhotoShop duplex/duotone EPS is directly supported.

Halftone options

Screen printing optimized conventional halftone (AM) types included
supercells/HPS/HQS optimisation
parameters for spot colours can be freely assigned.

Optimal 1:1 halftone preview with

overprint proofing management in process colours with mixed colours!
overprint proofing management in spot colours with mixed colours!
overprint proofing management in process/spot colour mix!
inrip trapping control tool, incl. mix between process and spot colours
perfect, 100% seamless «preflight control»

Optimum extendability thanks to modular design.

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Sold by:

DataScreen®

Features

The system for computer-to-screen

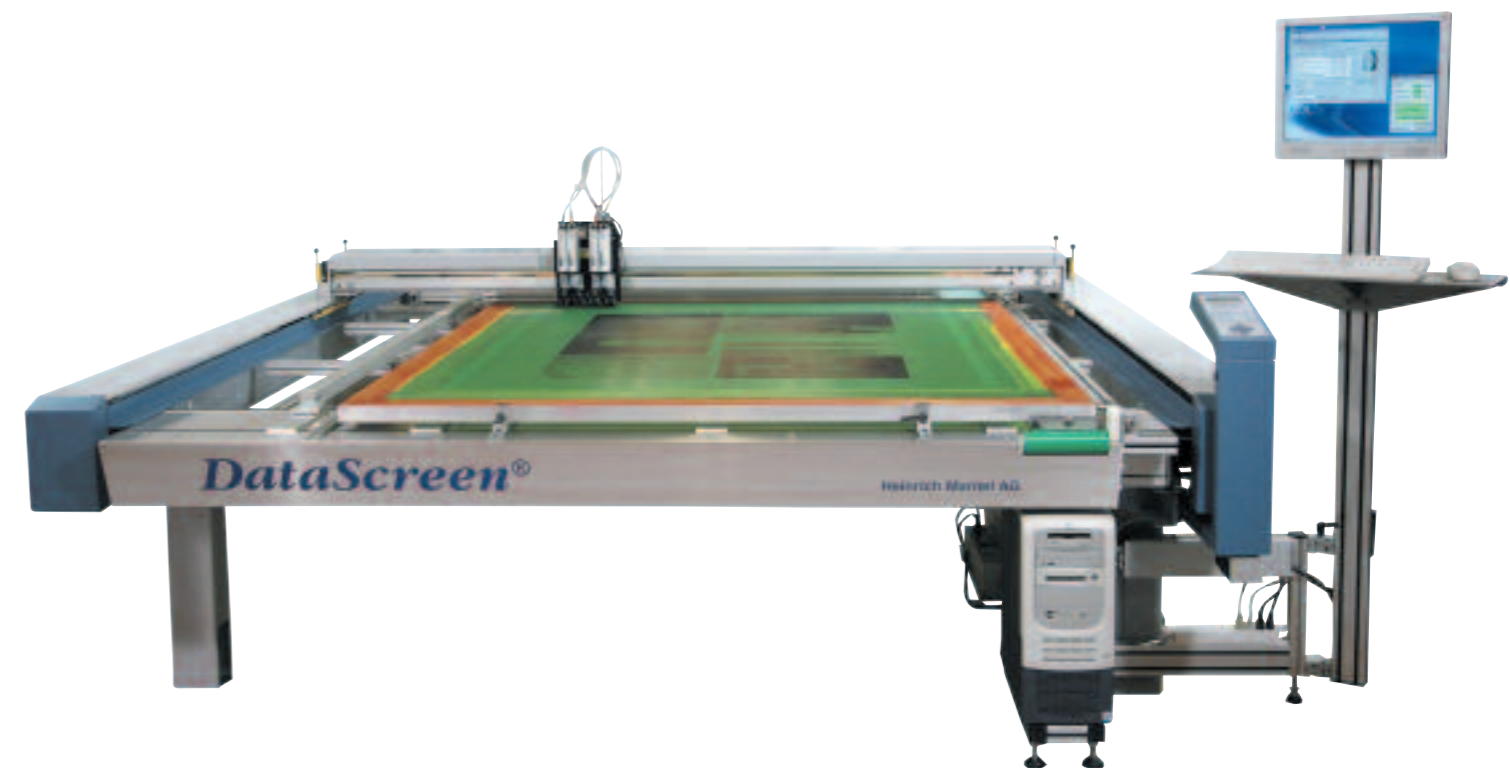
- ✓ Digital technology for fast, flexible and cost-effective production of stencils directly from the computer.
- ✓ Production of stencil directly from data, without film.
- ✓ Digital workflow from layout to screen.
- ✓ Rapid processing from data entry to finished stencil.
- ✓ Short set-up times in the printing machine thanks to digital pre-registration of image
- ✓ Simple reflection for composite motifs.
- ✓ No retouching required, since no films and copying frames are used.
- ✓ Significant cost savings.
- ✓ Fast return on investment.
- ✓ High flexibility for short-term layout changes.
- ✓ No costly film archiving.
- ✓ Fast processing times for print jobs.
- ✓ Rational production process.
- ✓ Process reliability through standardised parameters. True-tone print results thanks to operation specific printing curves, adapted and automatically allocated in the DataScreen® RIP process.
- ✓ Available with individual frame holding and reference system.

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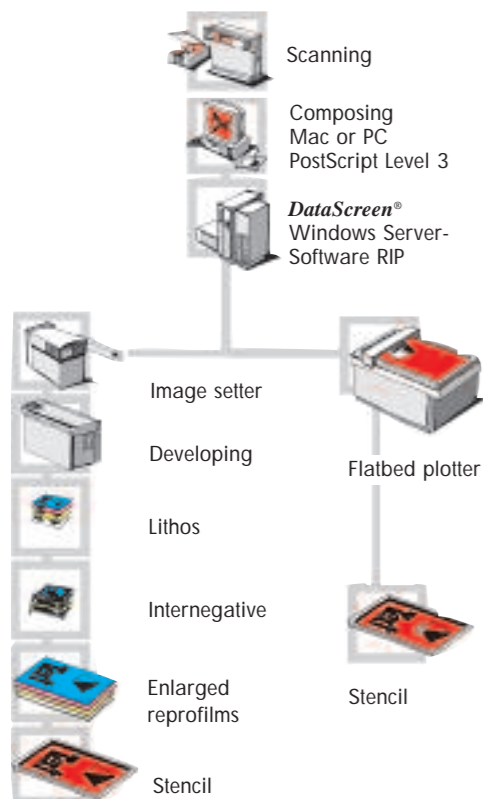
... for more profitable **silkscreen printing**



The system for computer-to-screen (CTS)

DataScreen® The system for computer-to-screen (CTS)

Fast process thanks to digital workflow and DataScreen®



Conventional with film

CTS with DataScreen®

Flexibility and cost efficiency

DataScreen® allows stencils to be produced from data rapidly and economically.

No need for reprofils, film edition or retouching work.

This reduces set-up times in the printing machine and shortens processing times, making small print runs more profitable.

For greater added value in printing.

DataScreen® makes silk-screen printing more profitable and competitive.

The process

Special light-impervious, water-based ink is applied to the pre-coated fabric using a 768 jet piezo printing unit which can generate different drop sizes ranging from 60 to 100 micron mm.

Immediately after image setting the fabric is exposed to light using a conventional metal halid lamp. So there is no need for process films or copy frames. The developing process can be done manually or automatically. The uncured motif under the imaging is washed out with warm or cold water. Expensive retouching work is not needed.

The image is pre-registered very precisely in the print frame. This makes for fast set-up times in the printing machine.

Technical data DataScreen 4-K

| | S-800 | L-1600 | XL-2500 | XL-3000 | XXL-3000 |
|---|--|----------------|----------------|--------------------------------|--------------------------------|
| Effective working surface* | 450x780 | 1400x1615 | 1800x2490 | 1800x2990 | 2250x2990 |
| Max. passage depth (mm)* | 60 | 60 | 60 | 60 | 60 |
| Max. screen frame dimensions | 900x1000 | 1650x1800 | 2050x2500 | 2200x3200 (3500 ¹) | 2700x3200 (3500 ¹) |
| External dimensions LxWxH (mm) excl. console* | 1250x1360x1200 | 2400x2320x1200 | 3160x2800x1200 | 3740x2800x1200 | 3740x3300x1200 |
| Approx. net weight (kg) | 360 | 800 | 1200 | 1250 | 1300 |
| Speed (m/sec) | 1-1000 | | | | |
| Max. acceleration (m/sec) | 10 | | | | |
| Print head | Piezo printing unit (768 jets), jets can be individually deactivated | | | | |
| Resolution (dpi) | 720x720 (1440) | | | | |
| Resolution of measuring system (mm) | 0.001 | | | | |
| Addressable resolution (mm) | 0.005 | | | | |
| Keyboard | 4-line LCD display, multilingual | | | | |
| Input voltage settings (V) | 110 / 115 / 230 | | | | |
| Mains frequency (Hz) | 50 / 60 | | | | |
| Power consumption (VA) | 700 | | | | |
| Safety (CE, UL) | Photoelectric barriers with integrated self-test monitor the work area | | | | |
| Ambient operating temperature | +20° C - +25° C | | | | |
| Ambient storage temperature without ink | 0° C - +28° C Shockproof replacement | | | | |
| Relative humidity | 45% to 65% | | | | |
| Print medium | Liquid ink, water-based, biodegradable | | | | |

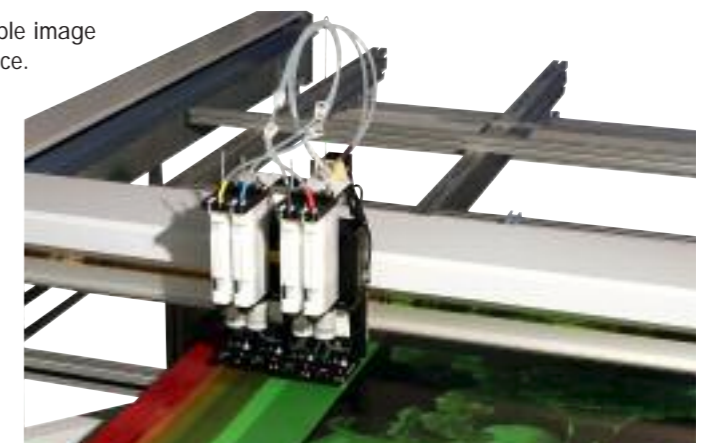
Dimensions and technical data subject to change without notice.

* Dimensions may vary depending on dimensions and status of printable image

** Model in preparation. Technical data subject to change without notice.

Special dimensions on request!

¹ optional



DataScreen® ink feeding system

Light-impervious, water-based ink is fed via mobile containers installed on the printing unit. No more need for costly disposable ink cartridges and long ink pipelines! This reduces variable costs and enhances cost-effectiveness.

Printing unit

Four piezo print heads with a total of 768 jets are used. Job-specific parameters optimization can be accomplished by imaging either with four, two or one print head(s). The system software compensates for individual jets which are defective or smudging. If servicing is required, the complete printing unit can be rapidly exchanged. This guarantees high-level system availability and an extended life of the print heads as well.