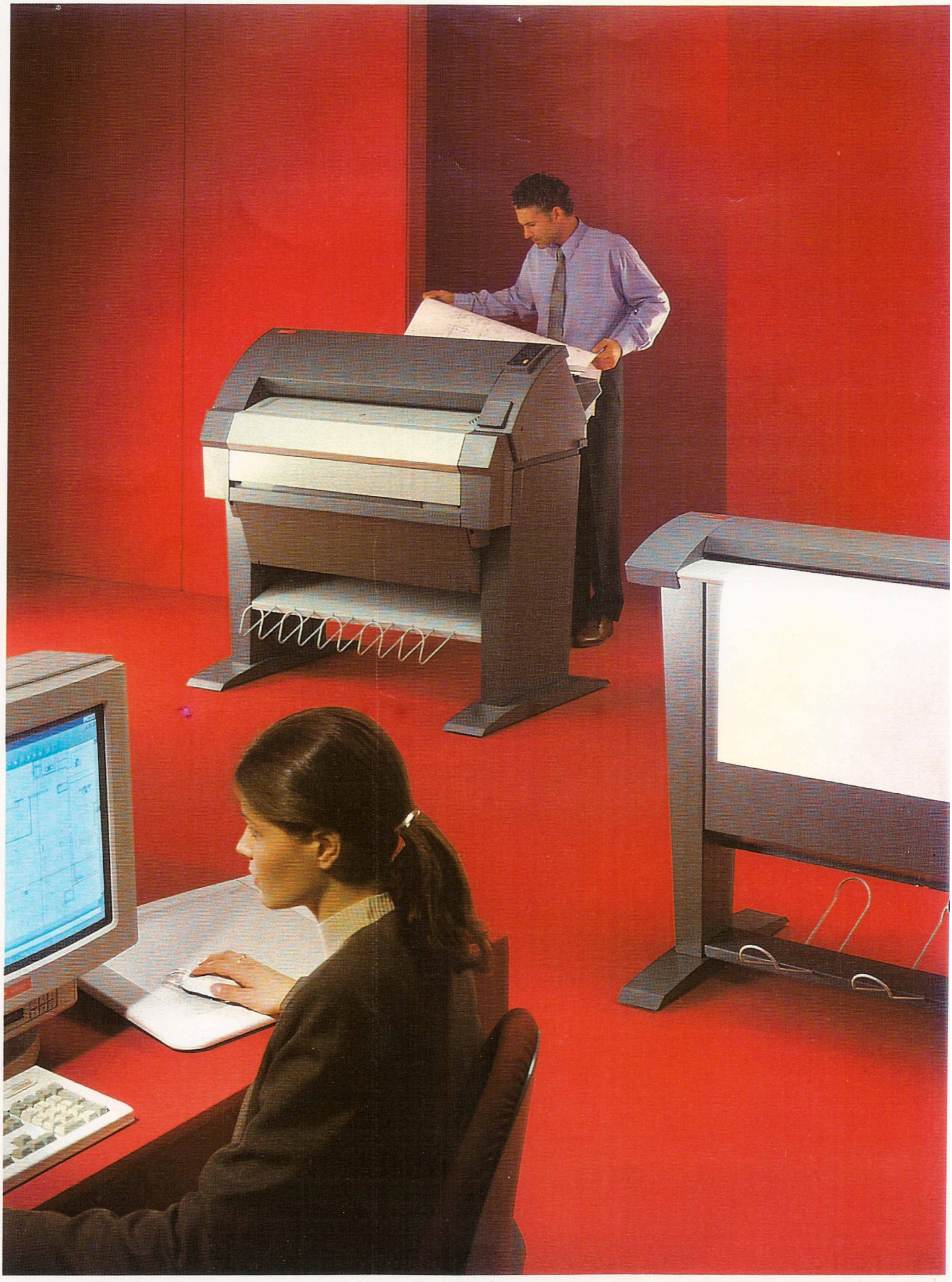
Alansar
Digital Copiers

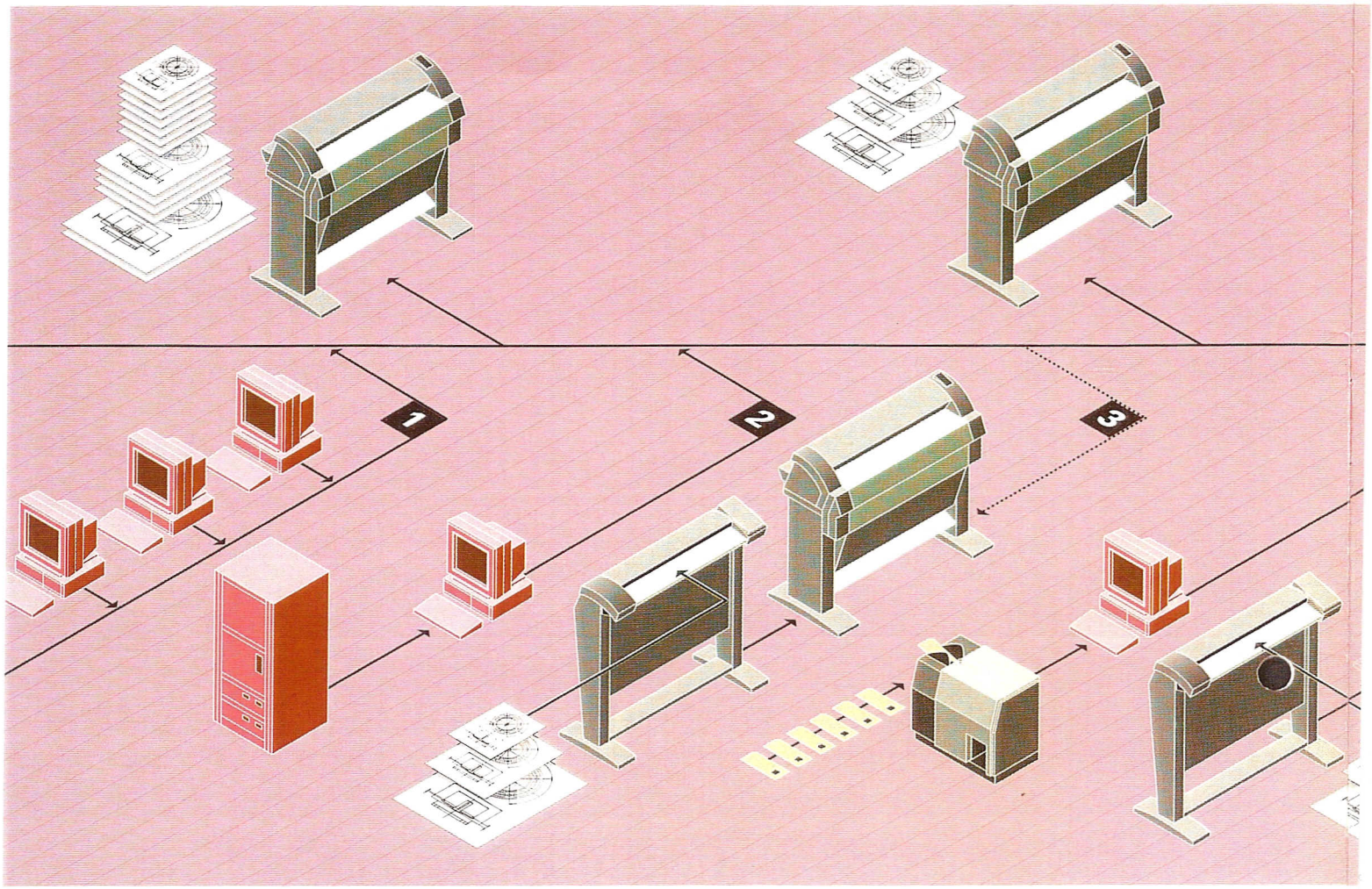
Large-format digital engineering printing and copying system

The complete, multi-functional system that's a breakthrough in price and performance

Océ 9400



he Océ 9400: an affordable, fully integrated system for efficient printing, copying and scanning



1 **The Océ 9400 efficiently handles large-format printing in CAD/EDMS environments**

2 **Océ's Plot Director software enables remote control of printing functions**

3 **The Océ 9400 offers convenient copying with powerfull zoom capabilities**

4 **The Océ 3000 microfilm scanner allows digital filing and printing of microfilm originals**

The economic, multi-functional solution

Handles plain-paper printing and copying up to Ao with unmatched efficiency

Unprecedented economy, performance and functionality

With its unprecedented combination of economy, performance and functionality, the Océ 9400 is the printing and copying system that many users have been waiting for. No single system has yet been available with all the capabilities of the Océ 9400.

Replaces two or even more stand-alone units

Up to now, large-format printing has been handled predominantly by inkjet plotters and electrostatic or thermal printers. Although these produce acceptable quality, their speed is so low that they are really suitable only for making single originals.

Handling multi-prints and hard-copy originals

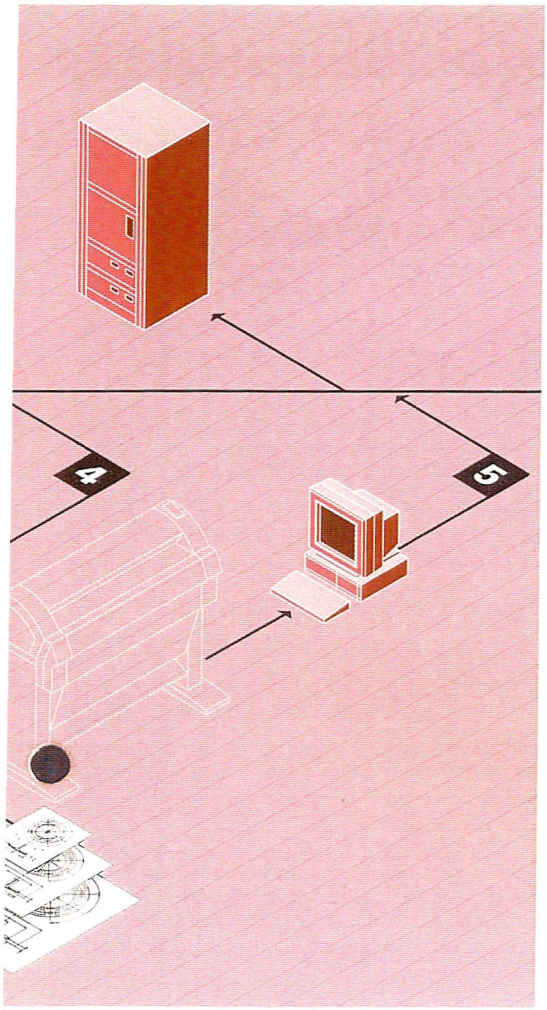
Many companies have even had to install two or more plotters simply to handle the workload of original print requests generated by a network of users. While if multi-print output was required, or if hard-copy originals had to be handled, a stand-alone copier was also needed.

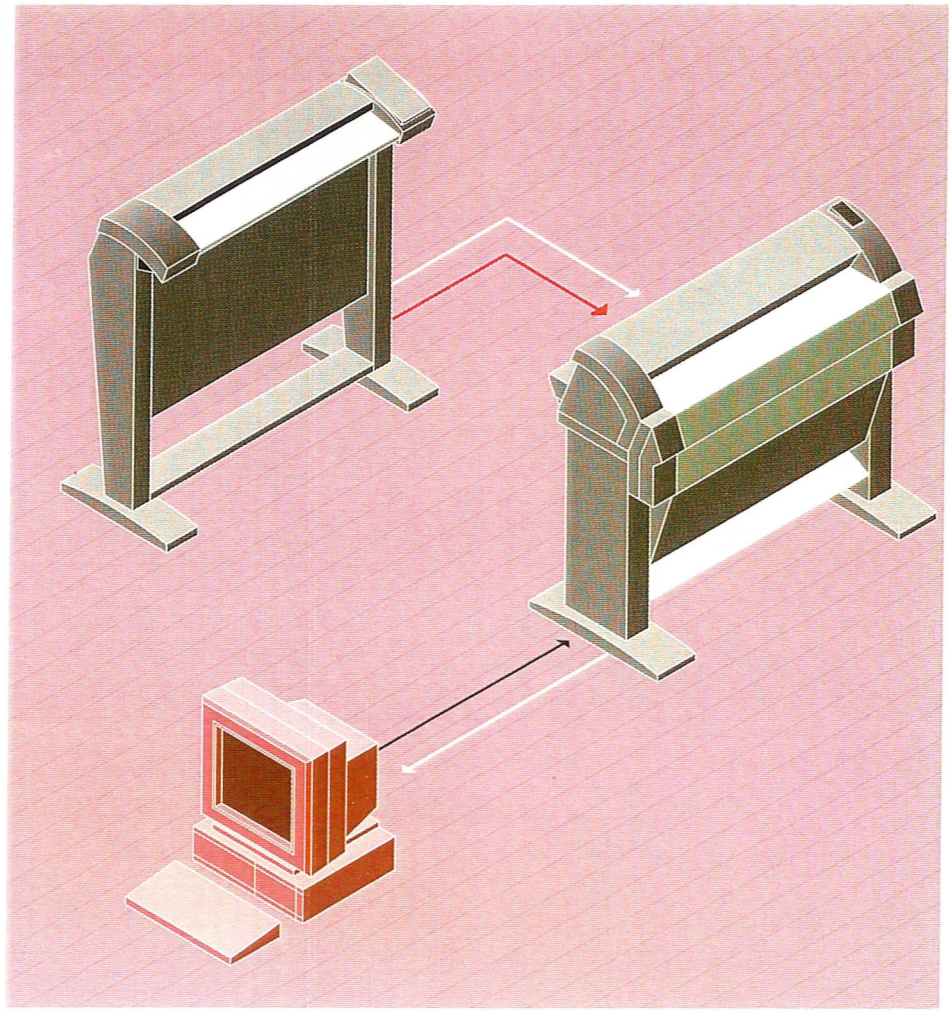
Purchasing and operating these separate systems has up to now been the only solution. Bringing with it high costs, in both initial investment and operation, plus all the problems of inconvenience, waiting times and low throughput rates for the users.

Single, economic, total-system concept

Now, the new Océ 9400 solves all these problems with a single, economic, total-system concept. By fully integrating the printing and copying functions, working efficiency is substantially improved.

Productivity is significantly higher than that of the stand-alone plotter/low-volume copier combination. The high throughput capability of the Océ 9400 is such that the typical multi-print jobs and smaller distribution runs are completed in a single, highly efficient operation. Add the optional high-capacity delivery tray, which neatly stacks up to 150 copies and plots, and get truly unattended handling.





5 Hard copies are converted into digital files with Océ Scan Station software

The Océ 9400: an affordable, fully integrated system for efficient printing, copying and scanning

Perfectly matched plot and copy functions

Next to printing digital files from CAD workstations or EDMS networks, the Océ 9400 has a versatile, integrated copying function for all hard-copy originals up to A0. This fast, easy-to-use copying function allows efficient handling of all drawings for which no digital source files are available.

But whether printing from digital files or reproducing hard-copy originals, the perfectly matched plot and copy functions and state-of-the-art Océ technologies ensure the same, outstanding quality every time.

Unique Océ scanning and printing technologies

When copying, Océ's unique digital Image Logic technology ensures that the quality of every copy is automatically optimised. That means right-first-time results, with no need for time-wasting trials. Copies and prints are superbly sharp and clean every time, thanks to Océ's enhanced resolution printing.

Today's most efficient scan-to-file capability

Also available for the Océ 9400 is an optional scan-to-file capability, based on the ScanStation PC application. ScanStation and the Océ 9400 are today's most efficient ways to convert your existing hard-copy documents into secure digital files that are always conveniently accessible when you need them. And with Océ's digital Image Logic technology, image quality is always the optimum achievable for each original – even your worst documents.

Microfilm scanning for digital filing and large-format printing

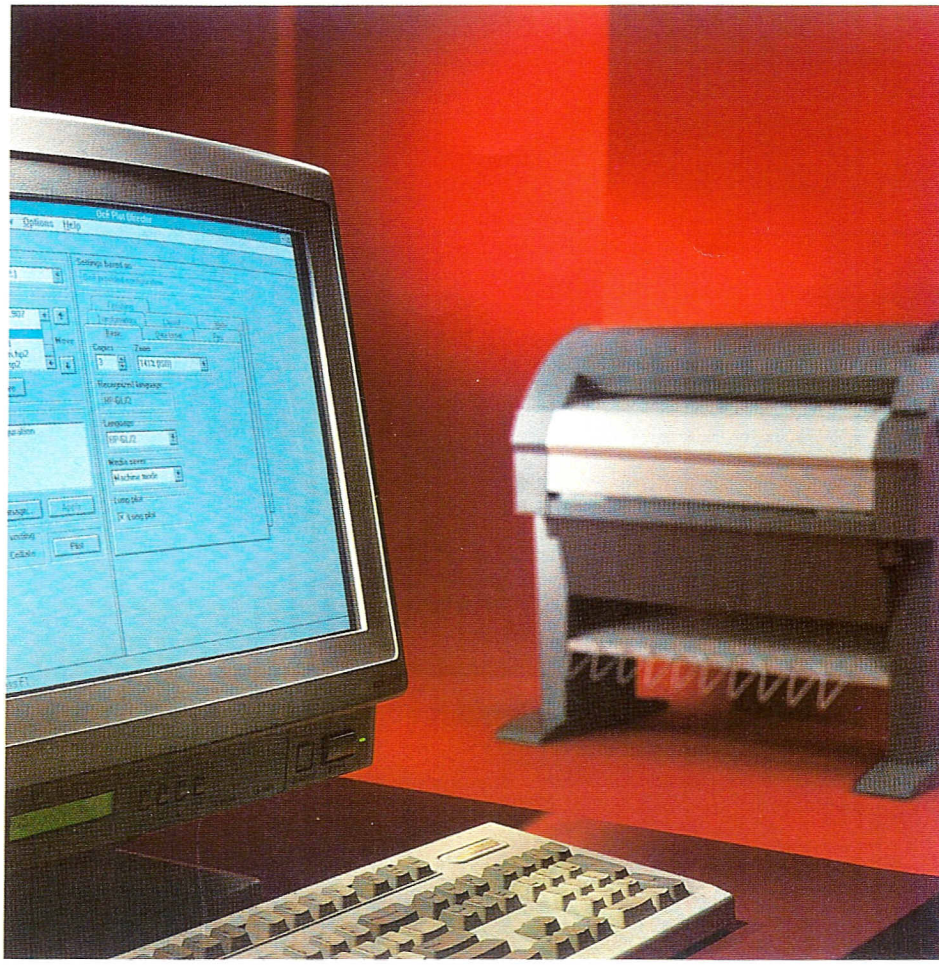
Available as an option for the Océ 9400 is the Océ 3000 microfilm scanner, which allows efficient electronic filing and large-format printing of microfilm originals. Operation is very simple, thanks to fully integrated scanner and printer control for 'green button'-style ease and efficiency. Scanner, printer and filing functions are set up by user-friendly Windows software, which gives full control of parameters like speed, resolution and file size.

Low-energy, low-emission system

As with every Océ system, the Océ 9400 was designed with environmental considerations firmly in mind. Issues like noise, heat and ozone emissions were particularly crucial in the design stage.

Meeting the demands placed on office systems in full, ozone emissions are far below the accepted standards, and the spotless toner system allows completely dust-free refilling. Energy consumption of the complete system is minimised by controller-only operation in stand-by mode, with a power rating of less than 40 W. Warm-up starts during processing, avoiding both energy wastage and waiting time. And of course all materials – from the system itself to supplies like photoconductor drums and toner – have been designed right from the start with recycling in mind.

The user-friendly graphic interface of Océ Plot Director allows digital files to be printed with remote printer setup



Cost-effective large-format printing on plain paper

Efficient, economic handling of your printing workload

Ideal for decentralised, on-demand printing...

The new Océ 9400 offers a highly cost-effective solution for large-format plain-paper printing in departments and drawing offices with CAD and EDMS applications. This new low-energy, low-emission system makes decentralised, on-demand printing widely affordable for the first time.

The Océ 9400 is ideal for quick check plots, interim releases and smaller print runs, all without the need to use central repro facilities or external printing services. Thanks to its high speed, waiting times are kept to a minimum.

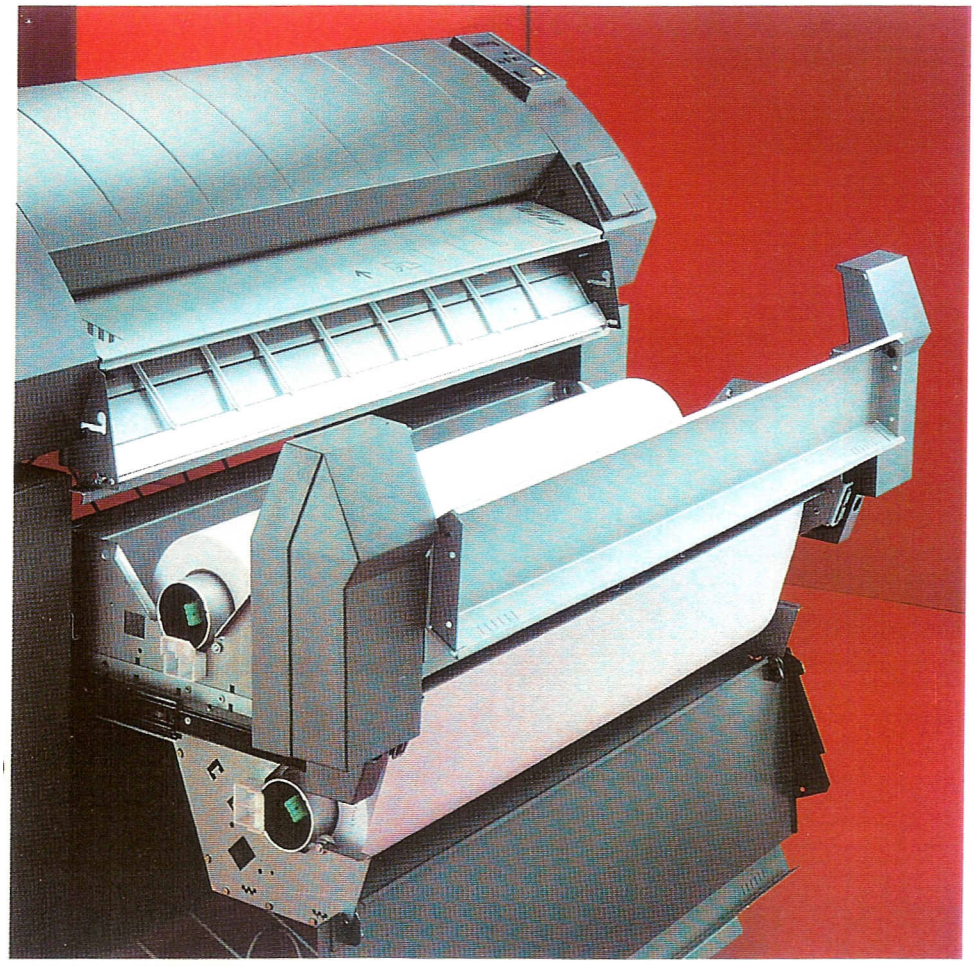
...and for smaller drawing offices

At the same time, the economic Océ 9400 is the system that smaller drawing offices – like engineers, design firms and architects – have always wanted. Because now, for the first time, the Océ 9400 combines high-quality plain-paper printing with productive handling of multi-print jobs.

Fast printing and immediate reproduction of digital originals

With a throughput speed of almost two A0 prints per minute – up to 10 times faster than comparable inkjet printers or pen plotters – the Océ 9400 has the capability to handle substantial workloads. That means all the demands of multiple users are met quickly and efficiently.

Typical multi-print jobs are handled just as easily, eliminating the need for separate, time-consuming copying. Even occasional distribution runs of as many as 50 prints are no problem with the fast, efficient Océ 9400 printer.



The 2-roll media feed eliminates the need for manual loading, ensuring flexible and uninterrupted printing

The ergonomic operator panel allows easy adjustment of printer settings

Océ's enhanced resolution printing for high-resolution results

Another big advantage of the Océ 9400 is its outstanding print quality. Océ's enhanced resolution technology ensures that there is no loss of resolution during the printing process. The result is superb visual quality, comparable to that of systems with the highest print specifications. Staircase effects are virtually eliminated by overlapping toner pixels. And a clean, high-contrast result is produced by the high-precision Océ printing system, which ensures that toner pixels are only printed where you need them, and at the exact size you need. A special Poster Mode is also available to maximise your images' output quality, whether you print from a digital file (for example, in PostScript) or copy from a hard-copy original.

Media feed from two 150 metre rolls for unattended operation

Underlining its efficiency, the Océ 9400 is available with one or two media rolls, each with a 150 metre capacity. And a reservoir holding enough toner for at least 500 prints is standard. So unattended operation is possible for longer periods, without the need for frequent checking and replenishment. Furthermore, thanks to the Automatic Roll Selection, users are guaranteed that their vector and raster drawings will be printed on the right roll. As well as standard plain paper, the Océ 9400 handles all the media you're likely to need for printing and copying: transparent paper and film, recycled paper, polyester and vellum. There's also a manual feed for convenient one-off prints on special media.

Easy connectivity in your digital printing environment

The Océ 9400 connects easily to your CAD system and EDMS network. A variety of vector and raster formats are supported to comply with your software. The optional PostScript Level II interpreter, moreover, will enable printing from any engineering or desktop publishing application. With this feature you can, for example, produce wide-format monochrome posters. All file formats are automatically recognised by the controller.

Both RS-232 and Centronics interfaces are supplied as standard. An optional Ethernet multi-protocol print server is available for flexible and high-speed connection to your network.

Dedicated Océ printer drivers

Dedicated Océ drivers for AutoCad and Windows enable you to control all relevant printer functions from within your application.

Full remote control of print functions

Full remote control of the printer is possible with Océ Plot Director software for Windows, without the need to start your CAD application. Plot Director's user-friendly graphic interface gives you convenient control of job management, plotter set-ups, pen attributes, roll selection, number of reprints, scaling and rotation.

Automatic set collation produces finished documents

Even complex printing tasks are simplified by automatic set collation. Just define the document sets using the Plot Director application. These sets are then automatically collated and delivered ready for distribution.

Copying with the Océ 9400 couldn't be simpler, with a control panel just like that of a familiar analogue copier

Walk-up, on-demand copying of all your hard-copy originals

Fast and flexible, with unmatched Océ reproduction quality

Handles all your everyday original formats

The Océ 9400's scanner unit offers an integrated capability for copying of all the hard-copy originals you have to handle in your everyday work. Whatever the original size and type – up to 914 mm wide and six metres long – the integrated system concept makes copying simple, efficient and trouble-free.

Thanks to Océ's unique combination of scanning and printing technologies, every copy is automatically optimised in terms of quality, legibility and information content.

Add to that the fact that the Océ 9400 uses the latest low-energy, low-emission technology. No warm-up time is needed, so the system is always ready when you are. And it can be located wherever you need it, right next to workstations or anywhere in your office environment.

High-productivity copying

Multi-copy jobs are completed quickly and efficiently. Digital retention allows up to 19 copies to be made after scanning an original just once. Multiple copies can be made at lengths of up to 3.5 metres. Single-copy capacity of the Océ 9400 is at least six metres in length, with a high throughput speed of three linear metres or two A0 copies per minute at 1:1 reproduction.

Excellent copy quality with Océ's Image Logic

Océ's unique digital Image Logic technology gives a consistently excellent copy quality, which is far superior to that produced by conventional analogue systems. Virtually all originals, whatever their condition, are copied optimally the first time, avoiding the need for time-consuming trials and wasted material.

Data which is scanned during the copying process is automatically enhanced by digital technology to give outstanding copies every time, from virtually all originals. Even the most difficult documents, like blueprints and dark copies, are always reproduced at maximum quality, with no loss of precious information. Disturbing dark backgrounds are reduced by Automatic Background Compensation, and weak elements like pencil lines are enhanced for optimum clarity.

can Station oftware and the)cé 9400 make it asy to convert ard-copy originals into accessible digital files

Convenient can-to-file or all-digital iling

Converts hard-opy documents nto secure, easily ccessible digital iles

Scan Station PC application controls scanning and digital storage

The Océ 9400's digital scanning capability together with the optional Scan Station software converts hard-copy information into digital data faster and with higher guaranteed quality than any other system currently available.

Scan Station for Windows is today's most convenient way to convert your existing and space-consuming hard-copy documents into secure and easily accessible digital files.

Océ's Image Logic technology optimises image quality

All scanned images benefit from Océ's Image Logic technology, whatever the scanning resolution. Just as in the copying process, this technology automatically optimises image quality and information content, even with originals with poor contrast or other faults.

Of course, manual fine-tuning is also possible if desired. By selecting File Optimisation mode users can get the most compact file storage or efficient raster-to-vector conversion of scanned documents while maintaining image quality.

Selectable resolution for maximum flexibility

Scan Station allows selection of the resolution at which each original is scanned. In most cases 200 or 300 dpi will be selected for an optimum compromise between image quality and file size. Or if desired, you can select 400 dpi scanning when image quality on screen or on paper is crucial.

Scan Station includes a view function that allows the quality and content of each scan to be verified. Alternatively, the optional View, Mark-up, Edit application adds extensive functionality for image viewing and manipulation. This includes cropping, editing and deletions of selected parts of the image, deskewing, despeckling and correcting faults in the originals.

Batch mode increases productivity

When handling large series of originals, productivity can be increased by selecting Scan Station's batch mode which allows uninterrupted scanning. This mode also provides an automatic incremental numbering function, for optimised scanning productivity and easy storage.

Technical specifications Océ 9400

System	Low to mid volume large-format digital printing and copying system with scan-to-file

Printer

Technology	Electrophotography (LED head) with Océ's enhanced resolution printing
Photoconductive drum	Organic photoconductor (OPC)
Printing speed	3 linear metres per minute
Warm-up time	None
Media feed	Manual and 1- or 2-roll with Automatic Roll Selection
Toner system	Closed
Maximum printable area	Depends on size of installed memory and file complexity, but possible up to 15 metres
Dimension	1,352 mm (W) × 918 mm (D) × 1,251 mm (H)
Weight	149 kg (1roll) 159 kg (2rolls)
Electrical requirements	230 V, 50/60 Hz
Power consumption	39 W stand-by 1500 W operating
Noise level	61 dB (A) operating

Media

Media types	Plain, transparent, fluorescent and coloured papers, polyester films and vellum
Min. media width	297 mm
Max. media width	914 mm
Min. media length	420 mm
Paper roll widths	A0, A1, A2, A3 500 mm 700 mm
Max. roll length	2 × 150 metres (plain paper, 75 g/m²)

Scanner

Model	Free-standing unit with control panel
Technology	One 7500 pixel CCD and Océ's Image Logic real-time image processing hardware
Digital retention	Up to 19 copies from one scan
Digital zoom	25% to 400% in fixed steps or 1% increments
Edge adjustment	Leading- and trailing-edge compensation (up to +/-80 mm in 5 mm steps)
Original format	Minimum: 210 mm × 210 mm Maximum width 1024 mm (scanned width is 914 mm)
Max. original length	Single copy: at least 6 metres Digital retention: up to 3.5 m², depending on memory size
Cut	Standard or synchro
Exposure control	Automatic Background Compensation and lighter/darker settings
Distance to printer	Variable cable length of 3, 6 or 9 metres
Dimensions	124 mm (W) × 615 mm (D) × 1105 mm (H)
Weight	60 kg
Electrical requirements	230 V/ 0.7 A, 50/60 Hz
Power consumption	4 W stand-by; 90 W operating

Controller

Memory	32 MB (upgrade to 48 MB or 64 MB)
Data formats	Vector: HP-GL, HP-GL/2 Calcomp 906/907 VDF, BGL Raster: HP-RTL, Cals Type 1 G4 & NIRS G4, TIFF 5.0 uncompressed G3 and G4, EDMICS PostScript Level II (optional)
Language sensing	Automatic and via display panel
Multicopy	Up to 99
Interfaces	Automatic switching: RS-232 serial Centronics parallel Ethernet multi-protocol print server via internal board (optional)

Plot manipulation

Auto positioning	Sets the ideal origin position and rotation of a drawing, greatly reducing drawing clipping, and saving media
Auto scaling	Scales plots to fit on the loaded media or on any selected standard size
Nesting	Nests A2/A3/A4 vector and raster plots side by side across the media, reducing media consumption
Plot transformation	Rotation, horizontal and vertical scaling

Drivers and application software

Océ ADI driver	For AutoCad v. 12 & 13 DOS and Windows 3.x, 95 and NT
Océ Windows Printing Solution	For Windows 3.x, 95 and NT
Océ Plot Director	For Windows 3.x, 95 and NT
PostScript Level II drivers	For Windows 3.x, 95 and NT For Macintosh System 7

Options

Dew preventer
High capacity delivery tray*
Scan-to-file
Ethernet*
PostScript Level II*
* For more information consult the Océ 9400 Options brochure.

Scan-to-file

Software	Scan Station for Windows 3.x and NT 3.51
Viewing	Integrated standard view only Option: extensive View/Mark-up/Edit software
Resolution	200, 300, 400 dpi
Data formats	Tiff 5.0 (G4 or uncompressed) and CALS Type 1(G4)
Scanning mode	Single scan Batch scan with automatic numbering
Check plot	In single or batch mode
PC requirements	Minimum PC-486, 66 Mhz with appropriate harddisk storage capacity
Interface	SCSI-2 for ISA/EISA and PCI

Safety information

Safety approval	TüV GS, TüV FS, CE, UL, (c)UL, FCC Class A