POWERFUL PAGINATION

MERGED TEXT & GRAPHICS

EASE OF USE

INTERACTIVE EDITING

COMPLETE COMPATIBILITY

FLEXIBLE OUTPUT

ARCHIVING & STORAGE

FULL GRAPHIC CAPABILITY

CAPS™

Compugraphic Automated Publishing System

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What is CAPS?

CAPS is a total solution to the problems of document publishing. Offering both power and simplicity, CAPS provides complete text, graphics, composition, pagination, storage, and document management capabilities.

Interactive in the truest sense of the word, CAPS offers more than the ability to merge text and graphics on a WYSIWYG screen. It allows all the elements of your publication to interact in a live, editable environment. You can work directly with text, scanned graphics (photos and line art), CAD drawings, tables, footnotes, and math —whenever and wherever you like.

Without shifting between different modes, you can place callouts in a photograph, compose a footnote, edit a table, and draw an organizational chart—at the same time, on the same page. What's more, you see the effects on the rest of your document immediately, as you work.

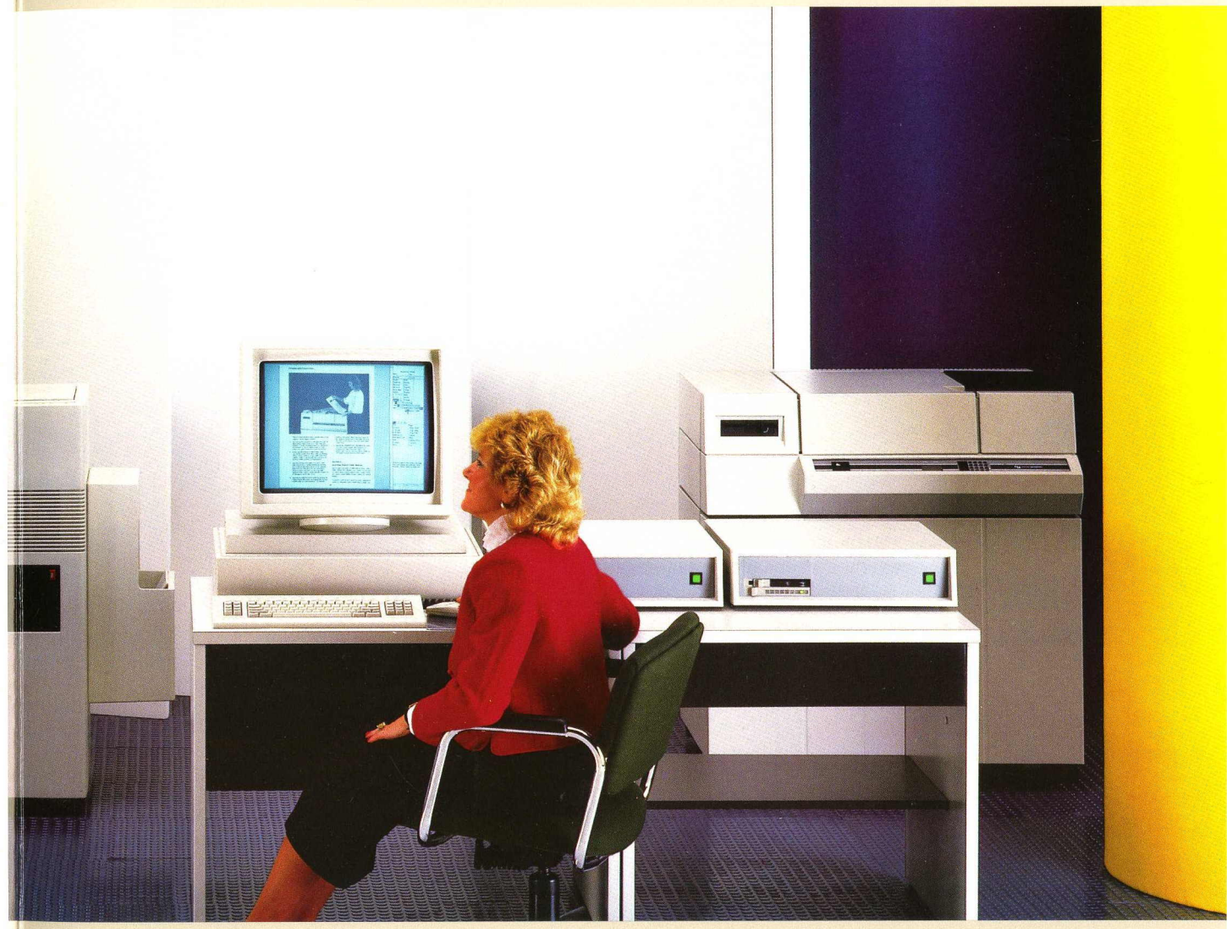
CAPS software supports this uncommon interactivity with a special internal "intelligence." The system keeps track of all the parts of your publication:

where they begin and end
how they should look in type
what pages and columns they're on
which larger elements they belong to
which elements they contain

No matter how long your document, or how extensive your changes, CAPS remembers every element, helping you with some of the trickiest parts of your job: keeping illustrations, tables, and footnotes on the same pages as their references, for example, and keeping complex numbering systems up to date.

By electronically integrating and automating editorial and production steps, CAPS cuts time, labor, and costs for dramatic gains in productivity.

Compatible with virtually all installed equipment, CAPS brings the proven technological expertise of Compugraphic and exceptional ease of use to the technical publishing environment.



Supplies

A wide variety of accessories and supplies are available from Compugraphic, including floppy disks, processors and papers, furniture, storage equipment, and educational materials.

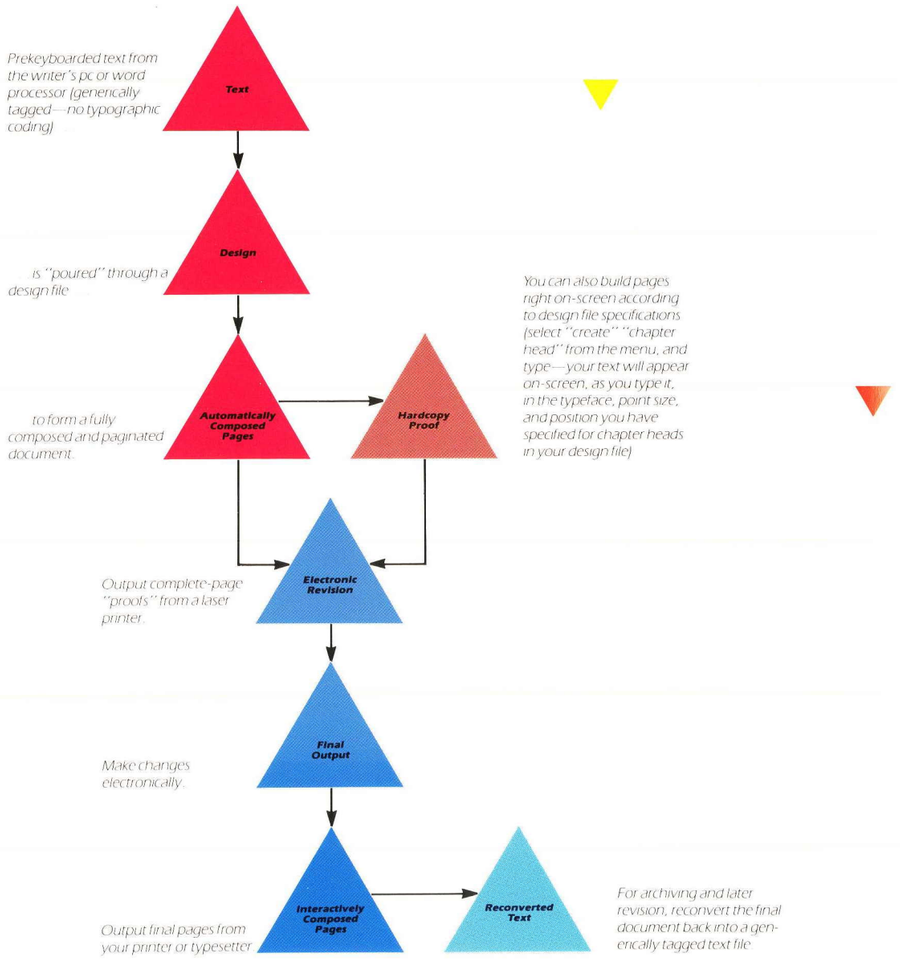
Type

Compugraphic has the largest library of typefaces (1,700) in the world. Its typefaces are designed and developed under the highest standards in the industry. As the leading developer of typographic systems in the world, Compugraphic is the only manufacturer of an electronic publishing system to offer this kind of expertise with type.

Compugraphic Policy

Compugraphic is committed to setting the standard for excellence in our industry and commanding the respect of our customers, competitors, and suppliers. Compugraphic therefore strives to design, produce, and deliver high-quality products and to provide reliable services that consistently meet the needs of its customers. Because of this continuing product improvement effort, the appearance of ordered equipment may differ from the equipment shown in photographs.

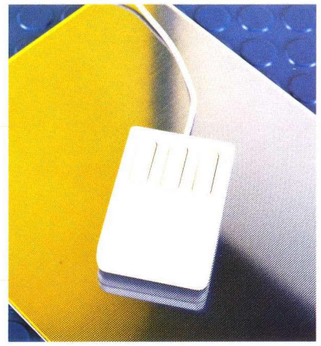
Basic Workflow



Design and Composition

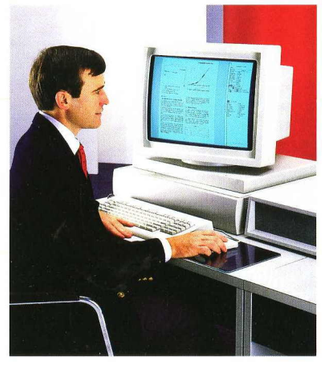
Codeless formatting

Formatting a document is simple with CAPS. You create a library of designs, and recall, reuse and revise them. You can work quickly because you don't have to provide specifications for each individual element. Rather, you can let a subsection "inherit" from the larger section that contains it, or specify only what differs. During batch pagination, CAPS automatically sets all elements in the typeface, size, and position specified in the selected document format. User-defined generic codes eliminate the need for time-consuming manuscript markup and complex composition codes, making CAPS virtually codeless.



Anyone can use it

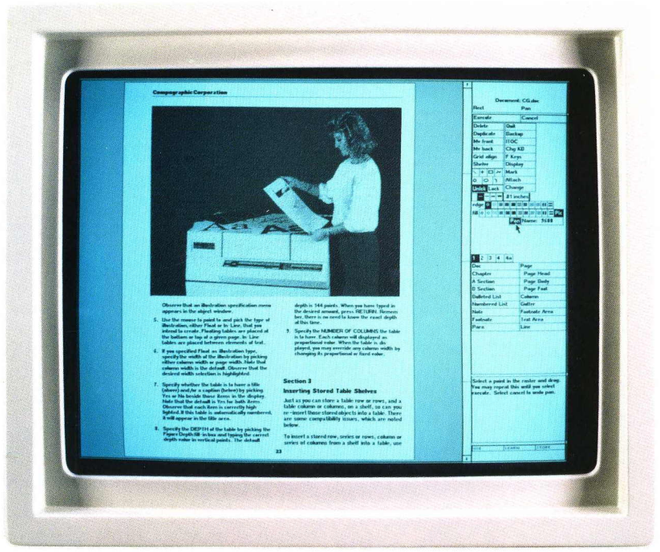
The menus and mouse make everything easy, even creating line art or making changes to a page. Many features, such as pagination, are automatic and require little, if any, operator intervention. Experiment with various page designs using interactive modeling tools, and output sample pages. Then, change the entire design automatically, without making changes to your text file. Overrule specific design instructions interactively using plain-English menus. The interactive "WYSIWYG" screen continuously displays a picture of exactly how the pages will look, showing all drawings, tables, photographs, and charts in position. Because it is totally interactive, the screen instantly reflects any editing changes.



Easy-to-use interactive editing

The interactive, WYSIWYG (what-you-see-is-what-you-get) screen shows your changes **immediately**, in actual type size, style, and position. This interactive editing feature is especially useful for non-standard pages, last-minute changes, and updates.

Graphics



No more paste-up

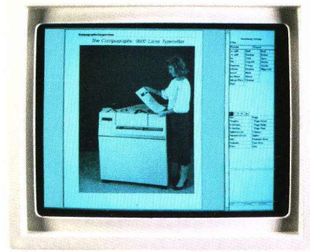
CAPS eliminates time-consuming manual paste-up because illustrations can be created, input from CAD systems or from MacDraw,™ or scanned, manipulated, and then merged with text electronically. The elimination of paste-up saves you time, money, and materials and reduces paste-up errors such as crooked lines, missing blocks of type, or incorrectly positioned artwork. Last-minute document changes take only a few minutes at the keyboard instead of hours of manual re-pasting.

Merges text and graphics

Text and graphics no longer have to be pasted up manually. Instead, they are merged electronically by CAPS, which displays and outputs pages with text and graphics in position. CAPS allows you to view and proof fully laid-out pages much earlier in the production cycle, eliminating separate proof cycles for text and graphics. It also means you can output drafts as fully made-up pages that can be reviewed and approved as they will appear in their final form.

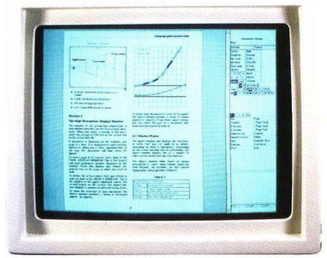
Photographs

The system's graphics scanner makes it much faster and easier to use photographs in documents. It scans photographs and automatically sizes, crops, screens, and manipulates them to produce high-quality halftones—without a camera or darkroom. The system also stores halftones electronically, making retrieval simple.



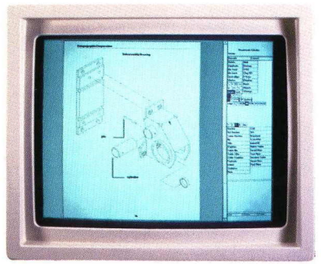
No more illustration headaches

Illustrations can cause major headaches during document production, but CAPS streamlines illustration preparation and retrieval, giving you more control and dramatically cutting the time needed. Because artwork can be created, input from CAD systems, or scanned, and manipulated electronically, your need for a stat camera and darkroom is reduced. Storing illustrations electronically makes it easy to use them again in different documents or to save several versions of the same illustration. And changes to illustrations can be made in minutes instead of hours.



Illustrations where you want them

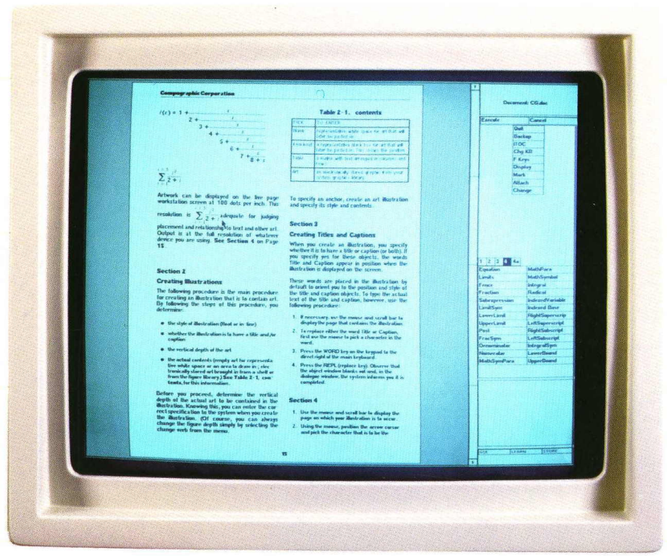
During pagination, illustrations and tables go exactly where you want them—**fixed** to a specified text reference or **floating** to the bottom or top of a specified page. You can also specify multi-column and single-column illustrations. The interactive WYSIWYG display shows tables and illustrations, even halftones, in exact size and position on the page, so there's no guessing, no surprises. And you can easily move illustrations later if you change your mind. The screen shows changes instantly, cutting the time needed to reposition illustrations or try out several arrangements.



Flexibility for line drawings

Line drawings of all kinds can be created on the page with interactive drawing tools, or they can be input from a CAD system or scanner. And you can combine scanned art, CAD art, and interactive drawings into a single illustration. Let the system position illustrations automatically as your document is being created, or place them interactively. You can edit line art in position on the page, adding labels and callouts and exercising full composition control over label and callout text. You can center, align, group, and duplicate labels automatically. Move an illustration—and its title, caption, and labels move with it. The graphics scanner will scan line art into the system, and you can store drawings, or parts of drawings, in an electronic "clip art" library, where they can be used again in any document.

Math and Tables



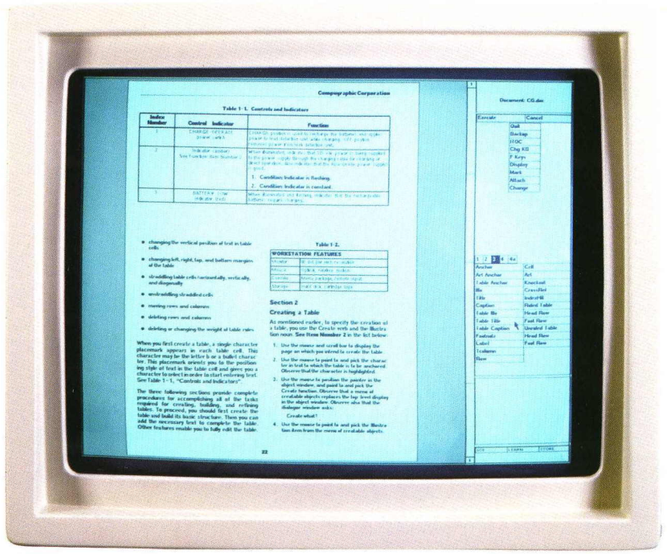
Mathematical precision

Using simple generic tagging instead of typographic coding, you can compose multi-level equations (including integrals, radicals, summations, fractions, brackets, superscripts and subscripts) automatically. Using plain-English menus, you can compose and edit math interactively—equations break and resize as you work.

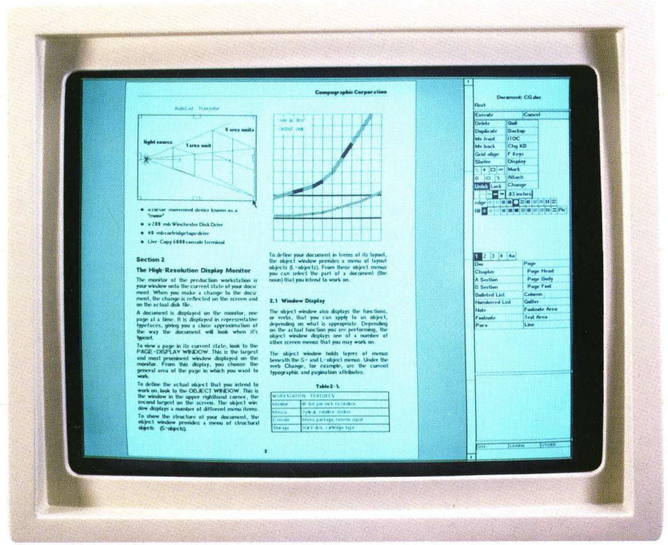
Faultless table setting

You can create any number of table rows, any number of columns, at fixed or proportional widths, and make tables grow dynamically, using plain-English menus. Create horizontal, vertical and diagonal straddle cells; adjust vertical alignment of text (top of cell, bottom, or center); move columns and rows, or insert new ones. Add rules or remove them.

You exercise full composition control over all text within tables (typeface, point size, leading, quadding, kerning, hyphenation, word and letter spacing).



Pagination and Revision

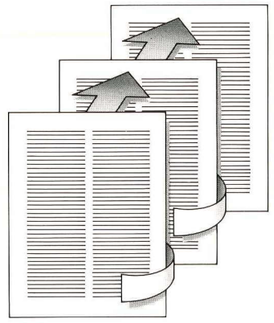


Powerful batch pagination

When performing batch pagination, CAPS automatically merges text and illustrations and breaks the document into complete pages. All page elements—such as multiple columns, drawings, photographs, tables, repetitive page headings, page numbers, and footnotes—are positioned automatically. CAPS also gives you column breaks where you want them, and automatic widow and orphan control. You simply select the document format, and the powerful pagination program does the rest.

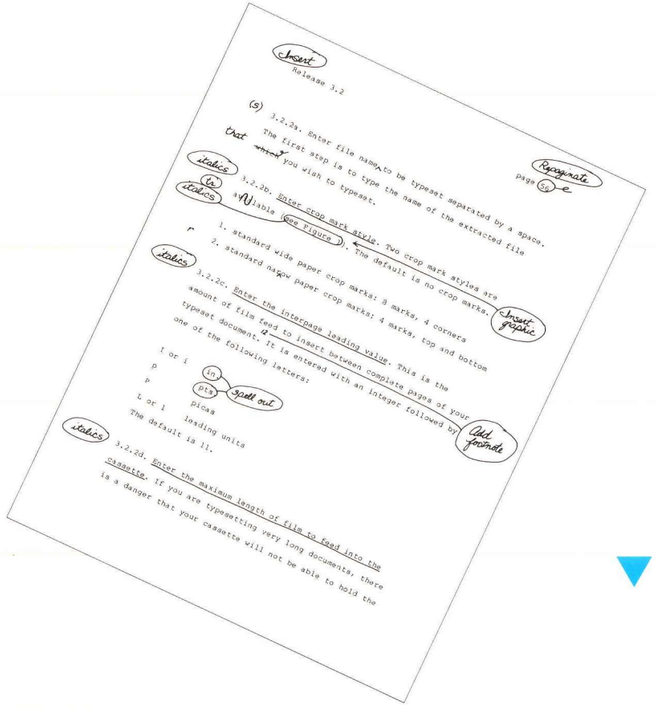
Interactive features for greater flexibility

CAPS lets you lay out publications with any number of columns—balanced-column or ragged-bottom styles. Using design menus and a simple prioritizing scheme, you provide instructions for automatic pagination. A post-pagination report (on-screen or in hard-copy), directs you to any pages for which your specifications could not be met. You can go directly to those pages, if any, and touch them up with interactive pagination tools (insert or delete leading, vertically justify, feather). For overflow material, you can create "A-pages"—a new page 10A, for example, between existing pages 10 and 11. Or you can publish them as a convenient means of updating loose-leaf literature.



Control the "ripple effect"

Even a minor change to a document can "ripple" through to the end, causing complete manual repaste-up of every page in the document. CAPS controls the ripple effect two ways. It will automatically repaginate the entire document after changes are made, eliminating repaste-up. Or you can confine the "ripple" to selected pages by repaginating only those pages. You control pagination: automatic or interactive—the entire document or a single page.



Fast, easy revisions

CAPS puts a range of time-saving revision tools at your fingertips. You can move swiftly and directly to any page or part (chapter, section, or subsection) of your document where you need to make a change. Then just point to the part of your document you want to change and select simple actions such as "change," "move," or "delete" from the menus.

You can completely reorganize your document, and see pages, chapters, sections, subsections, illustrations, tables, and footnotes renumbered in real-time—text references updated automatically too, wherever they occur in the document. As you revise, you can review an on-screen listing of all the major parts of your document, and their current page numbers—the intelligent table of contents is always accurate, no matter how extensive the changes you've made. And you needn't bother to store your changes at the end of your editing session—they've been written to the permanent file automatically, as you made them.

Your final document can be converted back into a generically tagged text file—capturing all the edits you've made and all the new elements you've created interactively on-screen—and then sent back to your writer's pc or word processor.

Input Flexibility

Capture data and graphics from any source

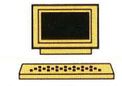
CAPS accepts text from virtually every word- and data-processing system. This compatibility allows you to continue using your word processors and personal computers for text entry and editing. There's no need to buy additional workstations that you don't need, or to train writers or typists on a new system. CAPS also accepts vector graphics from MacDraw, as well as graphics from a variety of computer-aided design (CAD) sources. CAD files can be translated into CAPS files and manipulated like any CAPS graphic. Graphics can also be scanned into the system with the Scanner 2000.

CAD System

Scanner

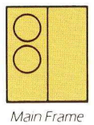
Word Processor

Word Processor

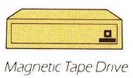


Personal Computer

OCR System



Main Frame



Magnetic Tape Drive

Output Flexibility

CAPS supports output to a range of devices:

—The Compugraphic 8600 imagesetter and 8400 typesetter

—The CG 9600 laser imagesetter

—A variety of plain-paper printers, including the Compugraphic CG 400, and CG 200, high-volume on-demand printers, and desktop laser printers.

The CG 400 plain-paper printer outputs complete pages of text and graphics on plain paper at 400 dots per inch. It can be used to generate masters for reproduction or plain-paper proofs for documents that will be output in final form on one of the photo units. It may also be used as a low-to-medium-volume demand printer.

The CG 200 plain-paper printer delivers complete pages of text and graphics at 300 dots per inch, offering an economical way to output low-volume plain-paper proofs and masters.

Compatible interfaces for PostScript™ and Interpress™ allow output to a variety of desktop and high-speed laser printers.

High-quality typeset output

Through our extensive typesetting and composition expertise, we are able to offer typographic refinements such as automatic kerning, advanced hyphenation and justification control, and more. Normally found only in commercial typography, these sophisticated features will improve the appearance of your documents significantly, yet they are automatic and require no extra effort or training.

The CG 9600 laser imagesetter, a high-speed digital unit, outputs complete pages of text, line drawings, and halftones. Engineered for the highest quality output, the 9600 sets new standards for image quality, edge definition, and positioning accuracy.

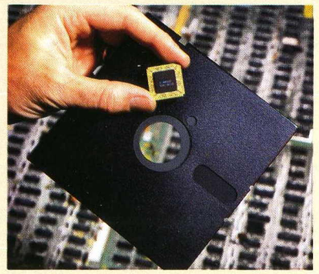
Compugraphic: Publishing Expertise and Leadership

An Electronic Publishing System From the Leader... Compugraphic

In 26 years of manufacturing and marketing computerized publishing systems, Compugraphic has become the largest and most successful manufacturer and supplier in the industry. This success has grown out of an ability to design and manufacture easy-to-use, reliable hardware and software with state-of-the-art capabilities. Compugraphic publishing systems are designed to help improve productivity by meeting the particular needs of customers and offering solutions to their production problems.

The success of this approach is illustrated by the fact that Compugraphic designed and manufactured the two best-selling photocomposition systems in the world. Compugraphic has maintained its position as the industry leader with extensive customer service, training, and support.

With the world's largest staff of composition software professionals, and its library of 1,700 typefaces, Compugraphic is also a major supplier of type and equipment to other manufacturers of publishing systems. For them, as well as for the company's many other customers, the Compugraphic name means leading-edge technology, customer support, and value.



Publishing Experts

Compugraphic understands the problems common to all publishing environments and, perhaps more importantly, the different requirements of different publishing operations. Compugraphic has built its success on understanding and meeting the special production needs of many different kinds of customers, including Fortune 500 companies, newspaper and magazine publishers, and commercial printers and typographers.

This ability to develop unique solutions to unique problems has established Compugraphic as the industry leader. Compugraphic again demonstrates this ability in its development of CAPS, a complete electronic publishing system for the document publishing environment.

A Range of Publishing Solutions

Today our systems provide solutions to the majority of commercial publishing and printing operations worldwide, as well as to "in-plant" publishing operations in industry, education, government, and other organizations. Compugraphic publishing systems range from 48-terminal commercial publishing systems to single-terminal, desktop office systems for everyday business documents.

Compugraphic also has more systems installed in corporate publishing departments than any other vendor. These systems are used to publish proposals, contracts, and manuals, or to create forms, overhead slides, and other presentation materials. As new technologies have made publisher-quality text and graphics accessible for all kinds of corporate documents, Compugraphic has been at the leading edge of the new electronic publishing revolution.

Service and Support from a Single-Source Vendor

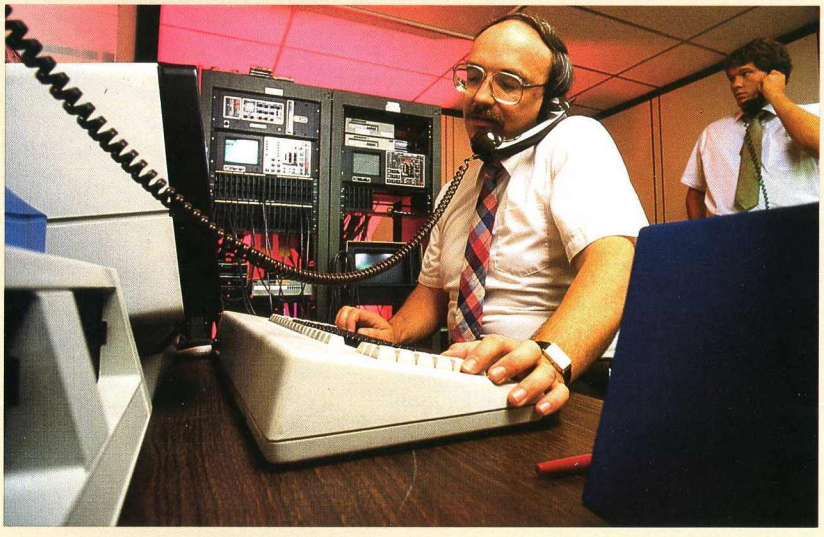
As a single-source vendor of complete publishing systems, Compugraphic is able to provide customers with the best integrated system design and performance available. And to ensure system productivity, Compugraphic backs each CAPS system with expert training, support, service, and supplies.

Training

Training for CAPS includes on-site and classroom training, a comprehensive manual, and a self-paced tutorial at the CAPS composition workstation. Compugraphic training centers located throughout the country are the industry's most extensive and best-equipped. They are staffed by highly skilled, knowledgeable training professionals who offer a uniquely comprehensive curriculum. Compugraphic also makes telephone consultation available every working day.

Communications Assistance

The Communications Assistance Center (CAC), unique in the industry, provides support to customers who have word- and data-processing equipment that interfaces or telecommunicates with Compugraphic systems. Located in Wilmington, Mass., the center provides telephone consultation and remote diagnostic testing of customer equipment through modems. It also develops user documentation such as reference manuals and translation tables.

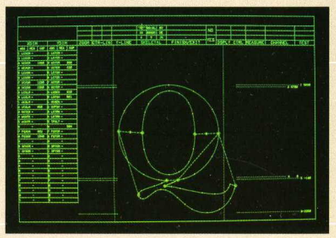


Financing Options

Compugraphic customers can choose from a variety of leasing and rental programs to finance their equipment. For customers interested in leasing, there are programs available at competitive rates and on a number of different terms to meet specific needs. Rental programs, offering low monthly rates and high conversion-to-purchase credits, are another option. All lease and rental programs provide the ability to upgrade equipment, a feature generally available only when equipment is financed through the manufacturer. And flexible end-of-term options enable customers to extend their lease or rental, buy the equipment, or return it. Leasing Managers, located in the regional offices, are available to help a customer analyze specific financial needs and customize a lease or rental program to a particular budget.

Service

Compugraphic has a staff of highly trained field service engineers located across the United States. Supporting their efforts are hundreds of field support specialists. A toll-free call to your local office brings prompt, efficient service.



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