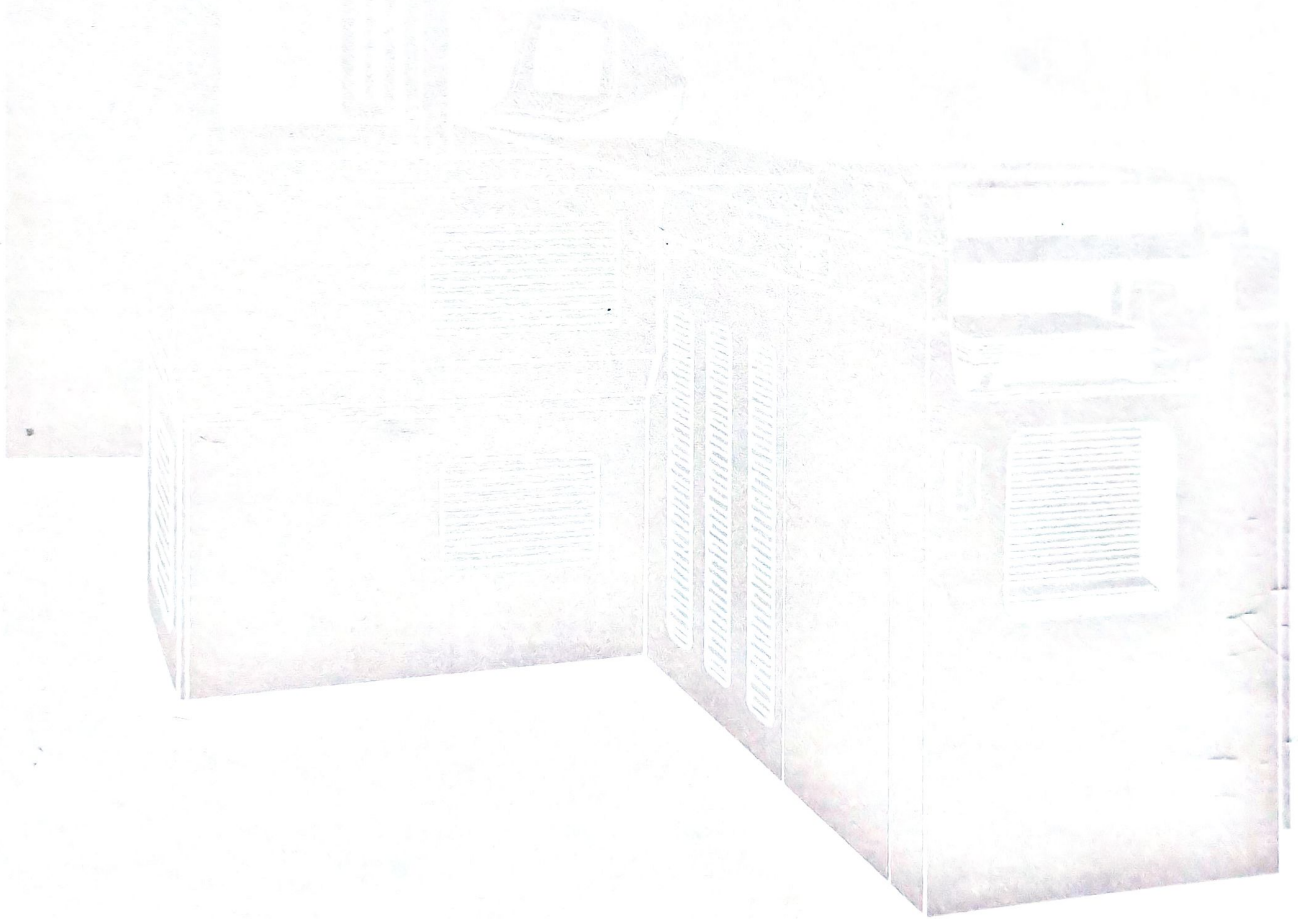


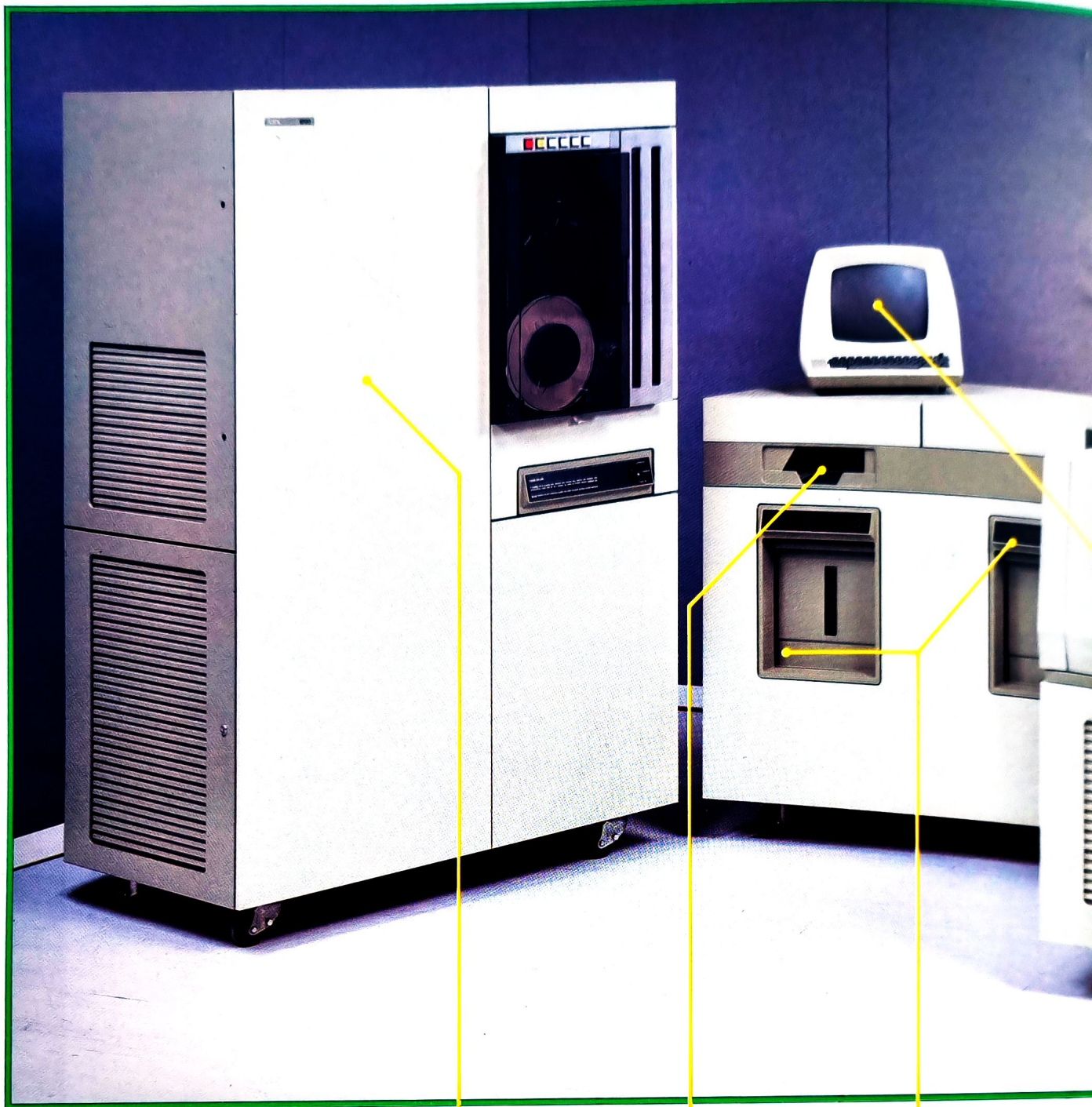
Xerox 9700

Electronic Printing System



RANK XEROX

Xerox 9700 Electronic Printing System



System Controller

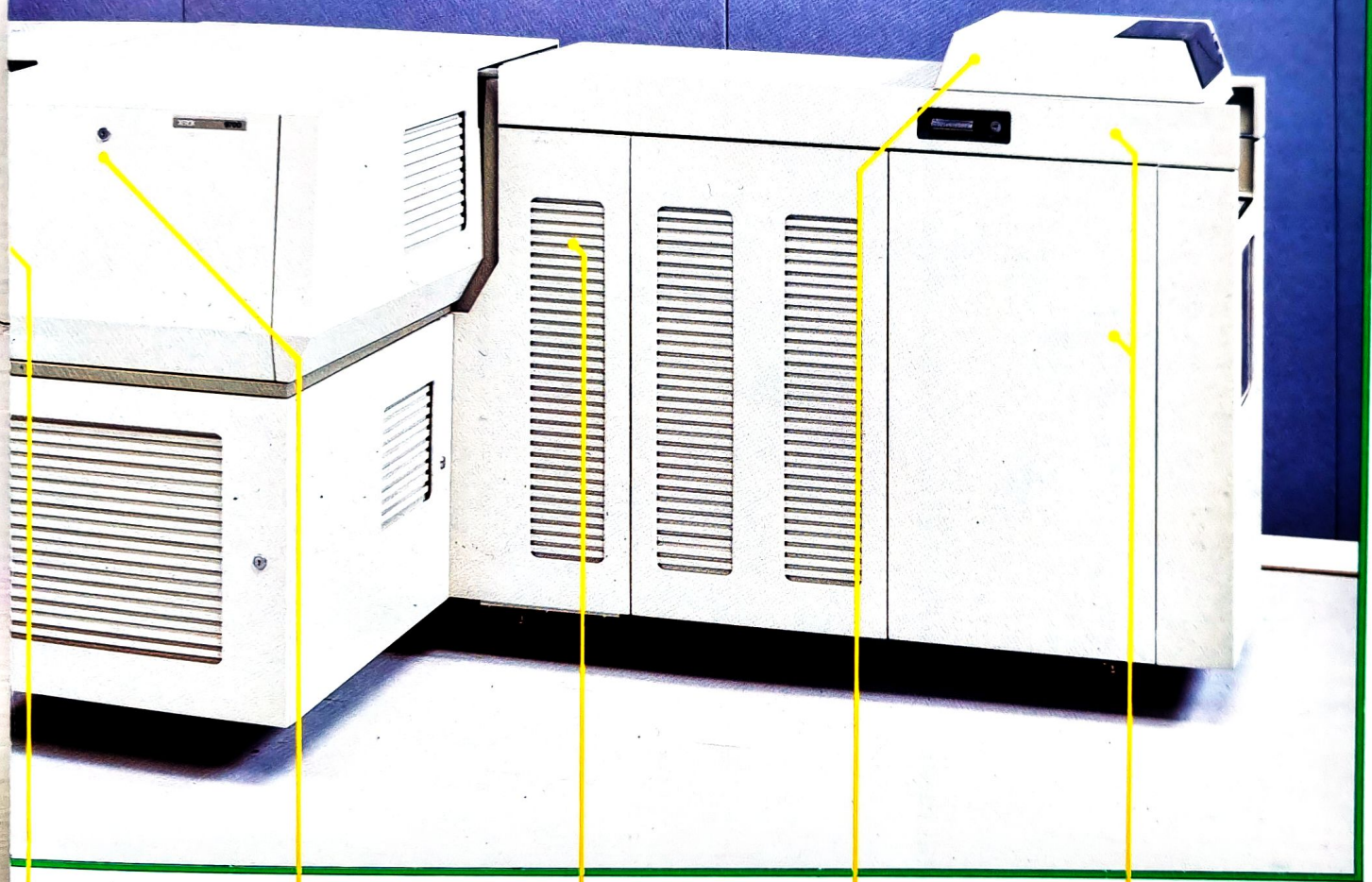
contains 50 megabyte disc for input buffering and user file storage. Digital processor memory for forms, fonts, data, manipulation. Dual Density tape drive for offline operation plus (where applicable) on line interface for direct Host connection. Xerox 850 interface for input from Xerox 850/860 word processors.

Sample Print Tray

Sample of what is currently being printed is diverted into this tray on request without interruption of normal printing.

Dual Output Stackers

for continuous printing—print delivered into pallets for easy distribution. Output is transferred to second bin after first bin is filled.



Operator's Keyboard Console

provides interaction between the operator and the 9700 printing system. Used for initiating and monitoring jobs.

Image Generator

provides electronic control for the blue laser beam. It accesses font memory (in the controller) to create character images and forms.

Xerographic Printer

using well proven technology. Pages are printed at a rate of two per second.

Duplex (Double Sided Printing)

Stop and return paper tray where the page is reversed for printing on the second side without loss in productivity (2 images per second).

Dual Paper Trays

assure continuous running or the incorporation of covers or special papers under software control.

Xerox 9700 System Overview

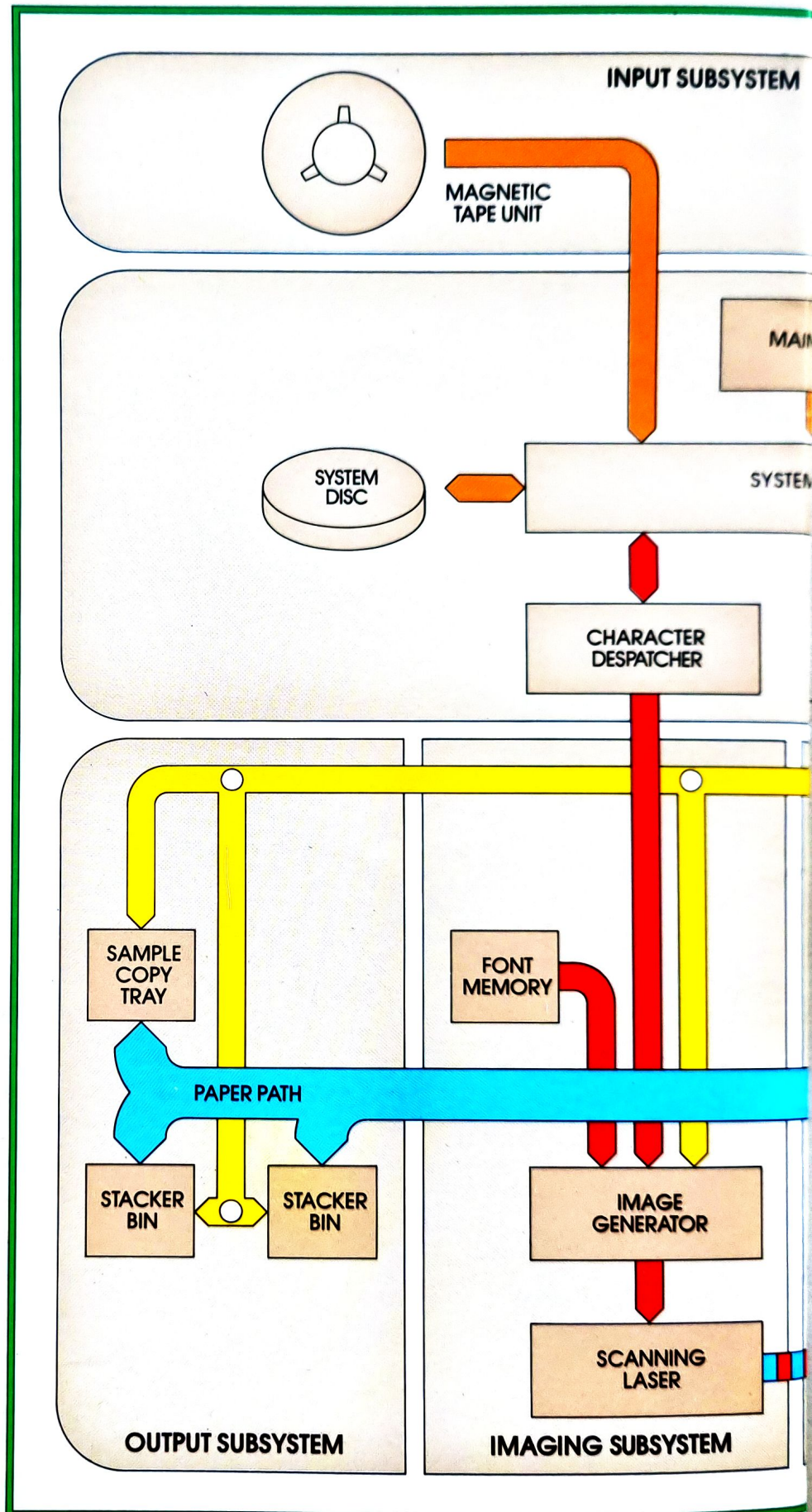
Functionally the Xerox 9700 may be considered as five subsystems which perform the tasks necessary to meet the system's operation.

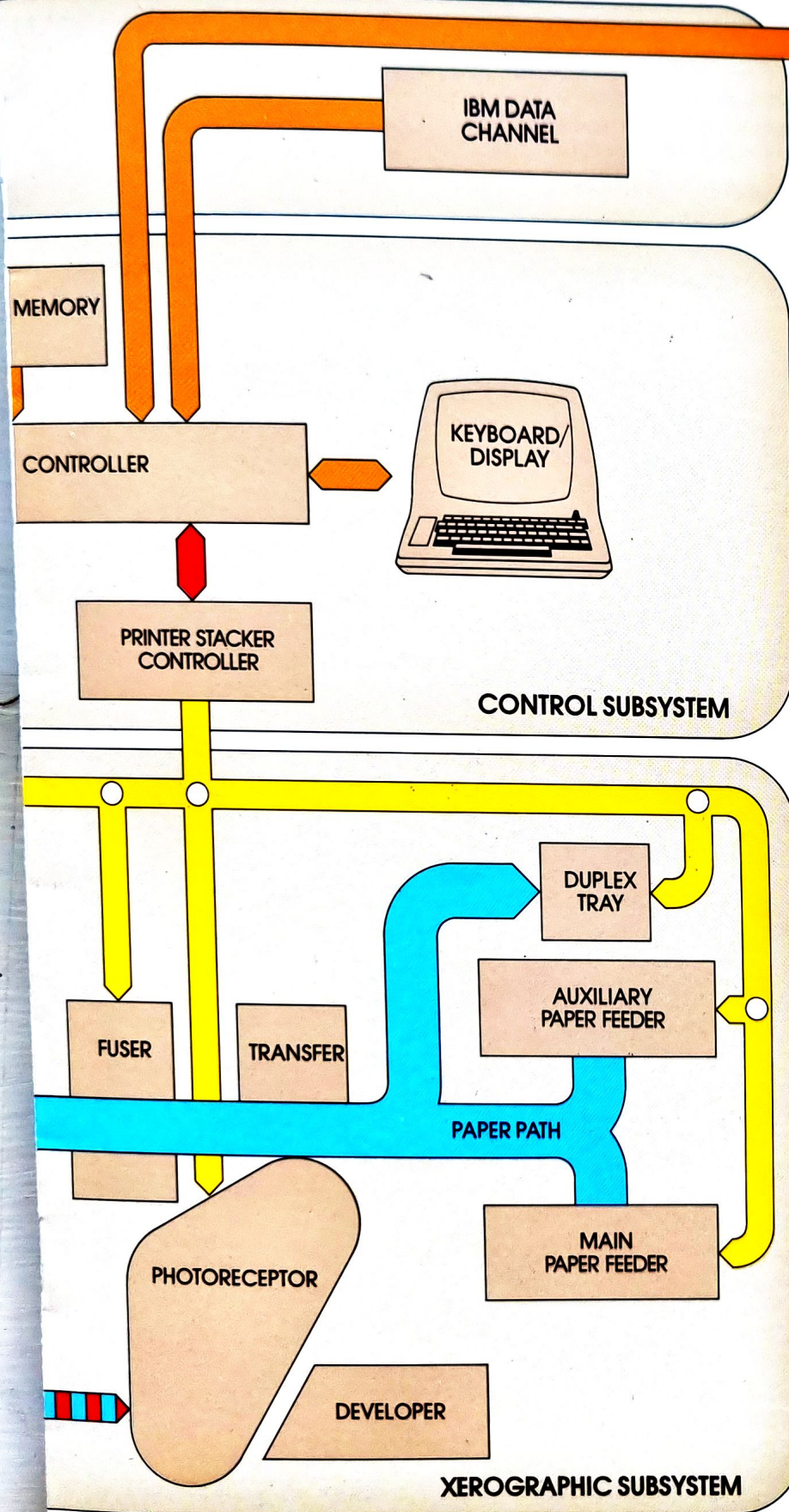
The **Input Subsystem** provides data for the system whether via 9 track 1600-6250 BPI tape, IBM data channel, or from Xerox 850/860 word processing systems.

This data is passed to the **Control Subsystem** which performs all the data handling, formatting, buffering and operator control of the system. Control Subsystem consists of a mini-computer and disc unit plus interface and control electronics. Also provided is the keyboard/display – the interface between operator and system.

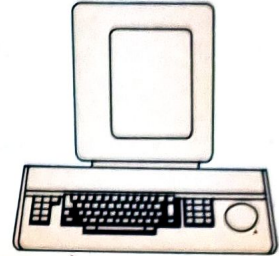
The **Imaging Subsystem** accepts the formatted page of data – including forms, logos etc. and utilises a scanning laser beam to generate lines of modulated light for the continuously moving photoreceptor of the **Xerographic Subsystem** – which incorporates all the normal functions of a xerographic printer, including paper handling and development of the latent image on the output page.

The two bin output stacker in the **Output Subsystem** provides the capability for paper stacking, report collating and sample prints in the sample print tray. Reports are separated by offsetting each copy set approximately 12mm from the previous one. Each bin will hold 1500 sheets of 80gsm² paper; automatic switching to the inactive bin occurs when the active bin has been filled; if the second bin is full the system will stop printing.





XEROX 850/860
INTERFACE



A simple keyboard and screen are your entry to a world where pre-printed forms are history. And where jobs which are now being sent for outside printing can be done in-house – instantly.

Using simple English language commands, you can create your own forms and page formats, storing them electronically until they are needed. This gives you a flexibility never before available to:

- Design and alter forms in minutes.
- Call forms into immediate use.
- Use logos, signatures, corporate typefaces, bar charts and graphs.
- Rotate the page orientation or mix horizontal and vertical type on the same page.
- Use a different form for each page.
- Design your own formats for computer output without changing the applications programs.

Adams & Bloomfield
190, Kensington Park Road,
London W8 5EJ

Shipping Order

Ship To (Name & Address)

Attn:

Packaging Instructions

Item

Quantity

Description

Shipping

Date Shipped

Re. / Type of Containers

Carrier

Date Shipped

Requestor's Signature

Date

3139(04/79) Created on a XEROX 9700 Printing System (Form 134) White-Vendor / Green-Administrator / Pink-Shipper

Adams & Bloomfield
190, Kensington Park Road,
London W8 5EJ

Shipping Order

Ship To (Name & Address)

Attn:

Packaging Instructions

Item

Quantity

Description

Shipping

Date

3139(04/79)

FORM F134; COMMENT SHIPD; COMMENT SHIPPING ORDER 2 UP 4/9/79 BW;
PORTRAIT;
GRID 0.1 CPI 12 LPI ORI 0.0;
POINTS UN107E,UN108E,UN210E,UN218B;
BEGIN SECTION X1;
LOAD 1030AP AT 4.59;
AT 12.2 BOX 64 BY 47 HIGH;
AT 12.30 BOX 36 BY 25 HIGH;
AT 12.2 BOX 28 BY 16;
AT 28.2 BOX 28 BY 9;
AT 28.20 BOX 28 BY 9;
AT 44 VER LINE FRO 12 TO 24;
AT 55 VER LINE FRO 20 TO 24;
AT 48 VER LINE FRO 24 TO 28;
AT 4 VER LINE FROM 37 TO 51 REPEAT HOR AT 10;
AT 7 VER LINE FROM 51 TO 59 REPEAT HOR AT 18.5;
AT 36 VER LINE FROM 81 TO 89 SOL 2;
AT 12 3 LINES FROM 2 TO 66 SOL 2 AT 51.59;
AT 27 5 LINES FROM 2 TO 66 AT 39.42,45,48;
AT 16 LINE FROM 30 TO 44;
AT 20 3 LINES FROM 30 TO 66 AT 24.28;
AT 55 LINE FROM 7 TO 66;
AT 13.5,60 2 BOXES 1 BY 1.5 VER AT 17;
TEXT FONT 1 IN TOP LEFT BOX;
UNTER RETURN TO CONTINUE - JEB

000010
000020
000030
000040
000050
000060
000070
000080
000090
000100
000110
000120
000130
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000160
000170
000180
000190
000200
000210
000220
000230
000240
000250

Collect
Prepaid
Charge

Date

Date

nk-Shipper

FORM F134; COMMENT SHIPD; COMMENT SHIPPING ORDER 2 UP 4/9/79 BW;
PORTRAIT;
GRID 0.1 CPI 12 LPI ORI 0.0;
POINTS UN107E,UN108E,UN210E,UN218B;
BEGIN SECTION X1;
LOAD 1030AP AT 4.59;
AT 12.2 BOX 64 BY 47 HIGH;
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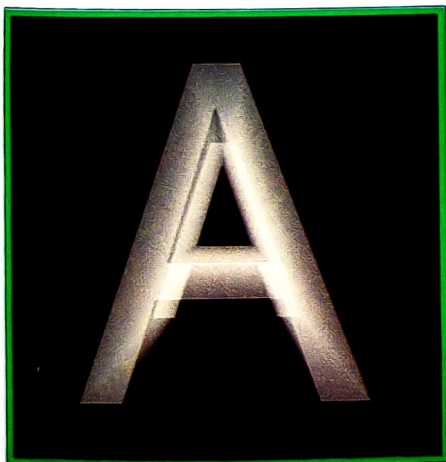
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An important factor in this flexibility is the ability of the 9700 to offer unlimited type font styles in sizes from 4 point to 24 point. Spacing is continuously variable from 3 to 18 lines per inch, and from 4 to 30 characters per inch.

The 9700 will deliver complete reports, even the covers. It will accept paper ranging from 75gsm to 200gsm, including pre-punched, perforated and coloured stock. And because two stocks can be mixed within a single report, covers and section dividers can be printed and collated with the report itself.

You can even change individual copies, removing or substituting sections of text or labelling certain copies "Confidential" - and run the report as one job.

The image displays three overlapping forms from the Rank Xerox 9700 system. Each form is a complex data entry sheet with multiple sections, including headers, tables, and checkboxes. The forms are labeled with 'NP' and contain various fields for data entry, such as 'Form No.', 'Form Title', 'Form Date', 'Form Time', 'Form User', 'Form Password', 'Form Security', 'Form Access', 'Form Control', 'Form Status', 'Form Action', 'Form Result', 'Form Error', 'Form Message', 'Form Alert', 'Form Warning', 'Form Error', 'Form Message', 'Form Alert', 'Form Warning'. The forms are arranged in a way that shows different parts of the system's output, including a large table with many rows and columns, and a section with checkboxes for 'Collect', 'Display', and 'Change'.



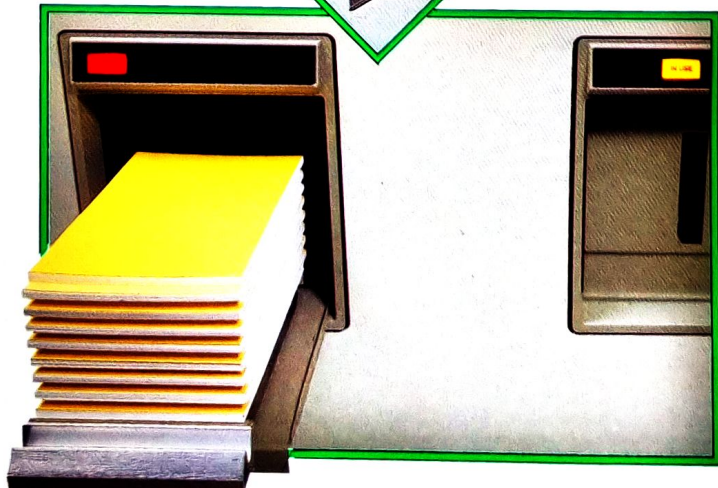
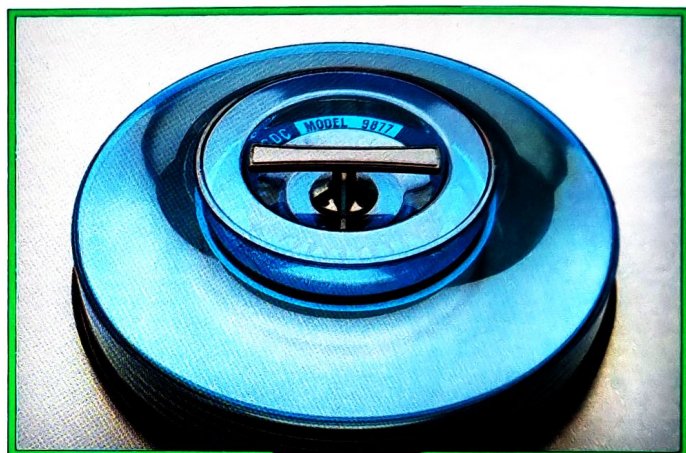
Output is the Measure of Productivity

The productivity of any machine diminishes as soon as it stops running. So the Xerox 9700 is designed to run continuously.

Printing on the 9700 is carried out from the **System Disc** enabling multiple copies to be printed without retransmission of data when on line to a data channel, or in the case of off-line operation the operator can mount and feed a new tape while the 9700 finishes the printing of the previous job. **Forms/Formats changes** are overlapped with printing, as the necessary data is stored ready for invoking with the data stream.

Paper Input is provided by two input trays. The provision of the auxiliary tray enables the operator to re-load the main tray without loss in productivity, the machine switching automatically to the auxiliary tray and back again when the main tray has been refilled, signalling the operator when the main tray is nearly empty to enable paper to be made ready.

Output is delivered fully collated into dual output stacker bins with covers where required. Easy access containers can be placed in the output bins to enable the sets of documents to be removed quickly and make output easier to handle.





The wide range of input available for the Xerox 9700 enables the features of the machine to be utilised to the full.

Rank Xerox can supply cardstock and paper in many colours, self-adhesive labels, perforated sheets and even some laminated stocks for special applications such as bar coding. You can also use pre-printed letterheads for mailing and customised letters.



Customer Support Services

General

A computer system needs thorough support from the manufacturer in a wide variety of areas to give the user the best possible opportunity to implement a successful application.

These various support services, in one way or another, contribute to savings in the overall implementation of the project. It is important that they be identified, understood, quantified and valued so that a formal appreciation is gained by the user of the savings and mutual commitments, and to ensure that no issue has been overlooked.

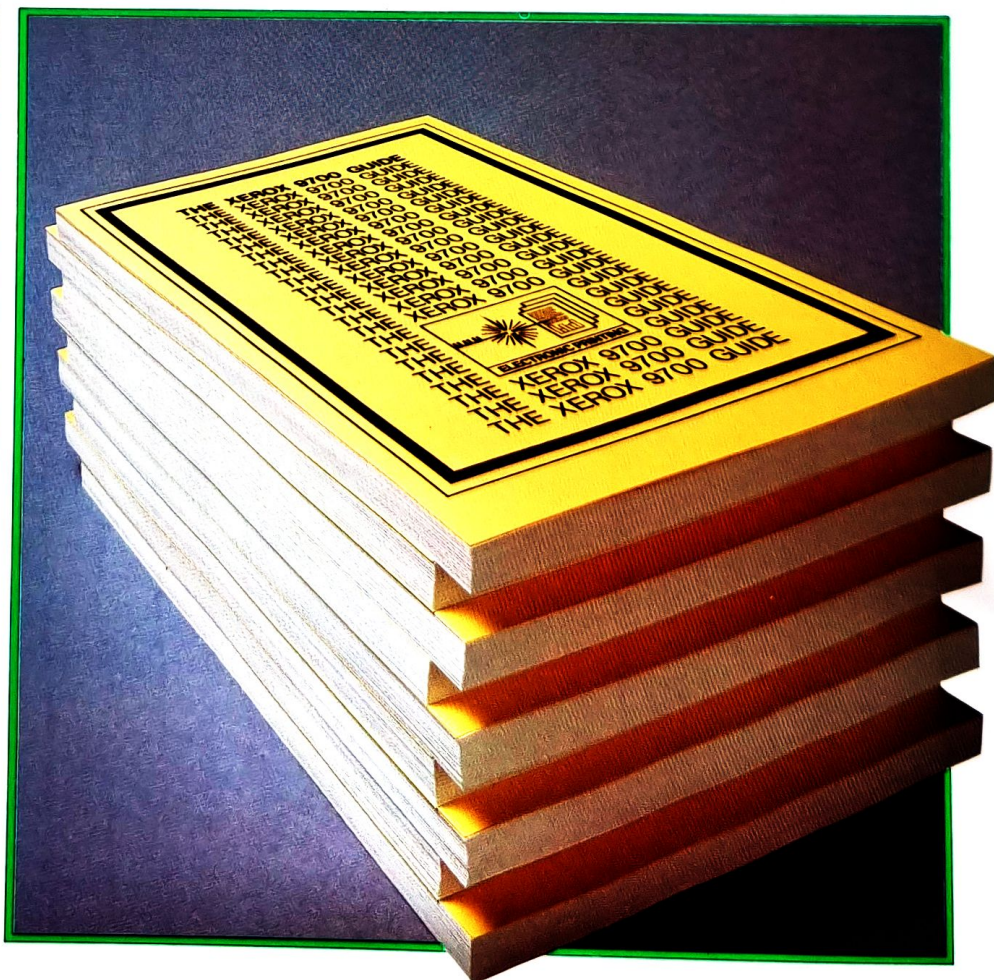
Account Management

Rank Xerox places a strong emphasis on formally established project management.

At the outset of the contract, representation at and a schedule of working party meetings must be agreed. These Account Support Meetings are held, typically at monthly intervals, and formal minutes are published. These provide the forum by which potential problems can be aired, and serve as the focal point for communication with the senior management of both user and supplier.

Installation Planning

Rank Xerox System Business Division operates an Installation Planning Service free of charge, which assists the customer to plan and implement his printing facility and services.



Software Support

Rank Xerox provides, at no charge, software support services for all its clients. Every client will be assigned an account analyst. This analyst is chosen, whenever possible, for his experience and knowledge of applications which closely match those of the client.

The analyst's role is primarily advisory; he is not expected to be an integral part of a client's actual implementation team, but he is responsible for ensuring that the best possible use is made of a Rank Xerox system and its software, from the time of installation onwards.

Customer Training

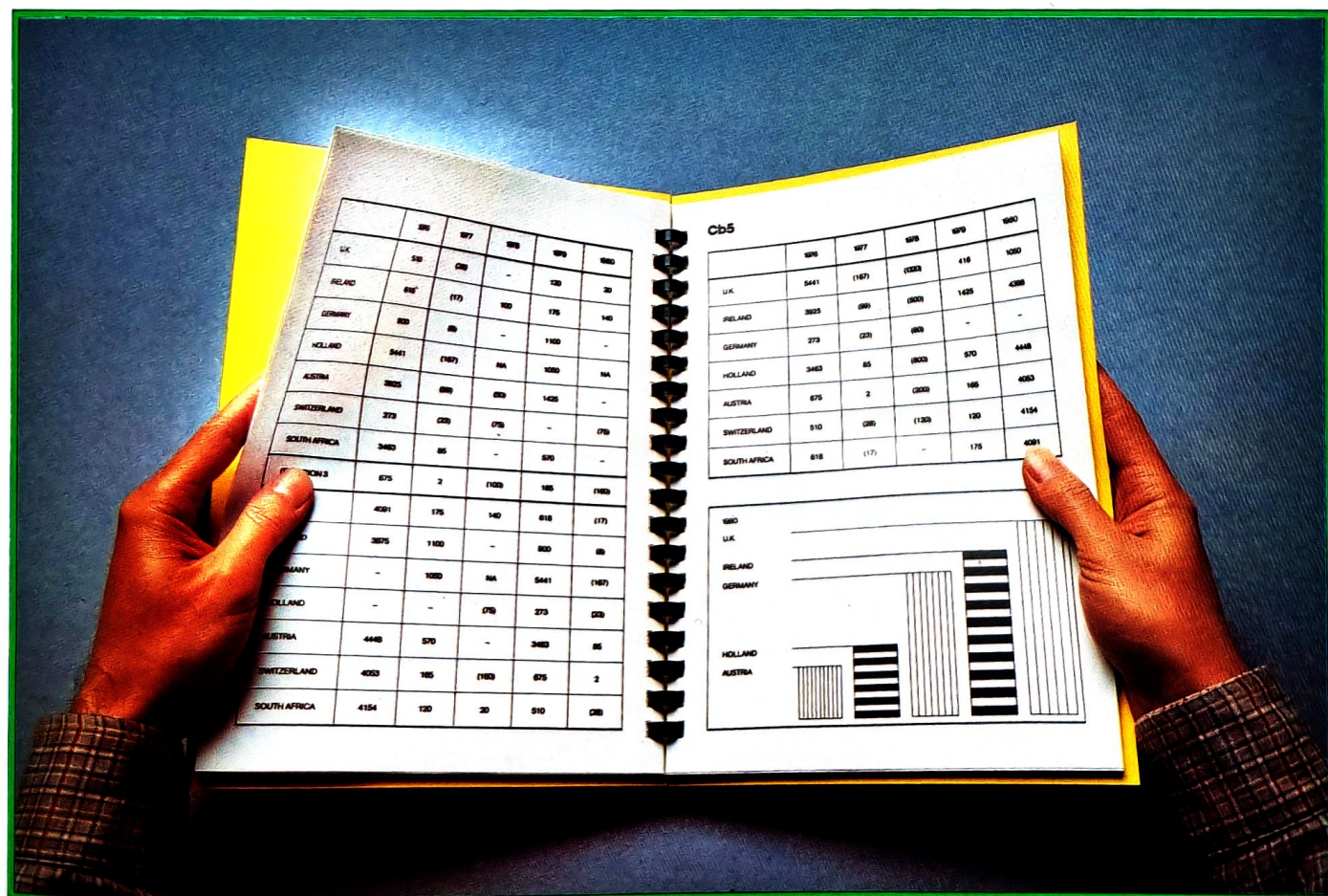
Rank Xerox provides a wide variety of training courses to assist your personnel in understanding and utilizing the capabilities of the 9700. The training material takes three forms:

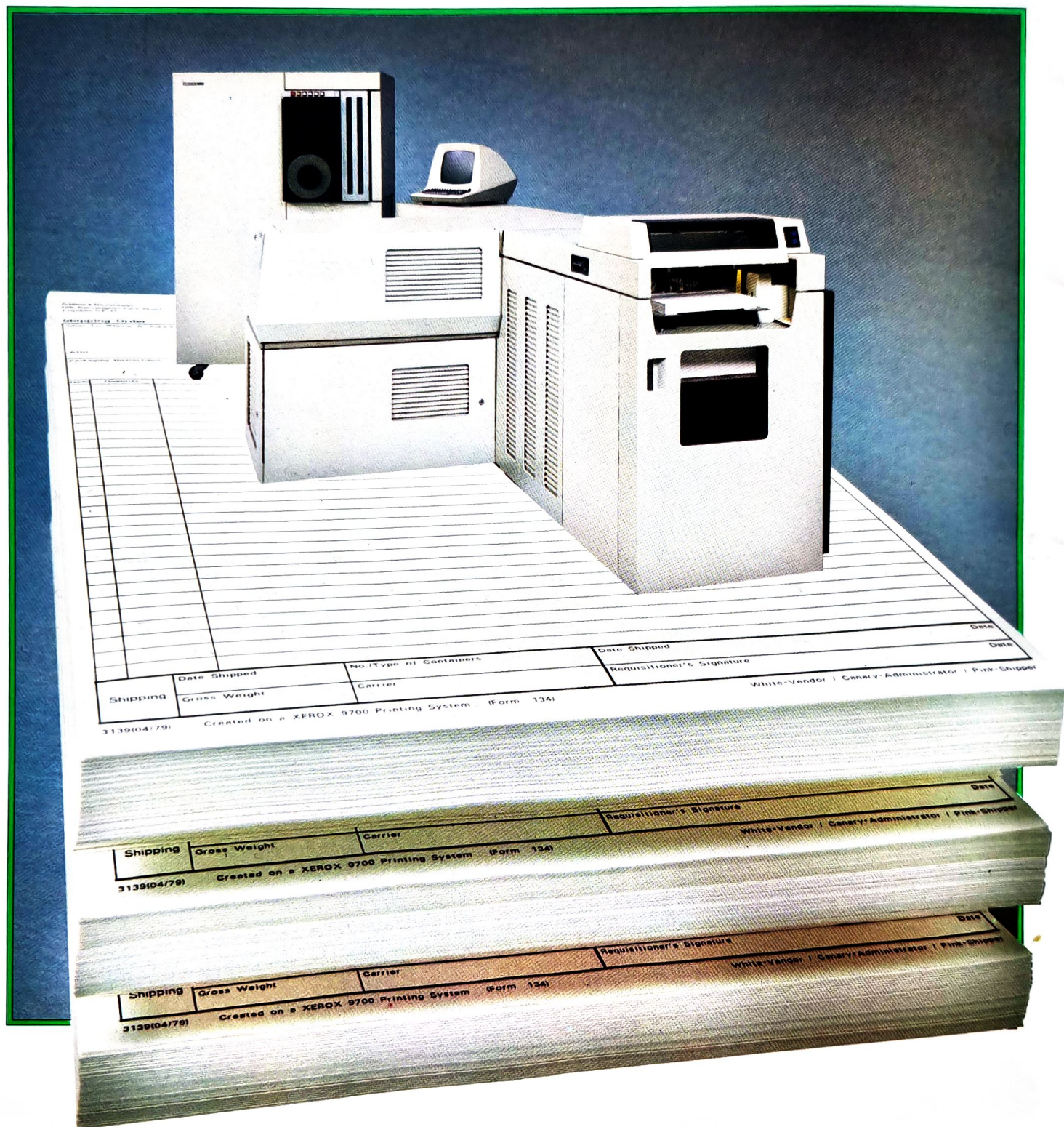
1. Programmed Instruction. Available as pre-lecture material on Forms Description Language (FDL) and Print Description Language (PDL). (20 hours.)

2. Lecture Classes. Available material includes Host System Environment, 9700 Job Flow and Operations, Forms Design, 9700 Resource Utilization, and Application Development, and FDL and PDL Reviews. (40 hours.)

3. Operator Training - 8 hours.

Training and reference materials, including 9700 Reference Manual, Forms Design Guide, Font Users Guide, and 9700 Operators Manual may be ordered from Rank Xerox.





Technical Support

Rank Xerox will provide a 24 hours a day, 7 days a week Technical Service support within designated areas. This service is resourced to give a maximum of two hour response time.

The Xerox 9700 is designed for the maximum possible reliability. It also contains the latest in micro-processor

diagnostic capability, so that if stoppages do occur, they can be quickly rectified. Rank Xerox field engineers are trained to the highest standards in the industry.

It is the aim of Rank Xerox to be not just a supplier, but a partner in business development.

Specifications

Functional Units

Printer Complex:
Xerographic Printer
Image Generator
Output Module
System Controller
CRT Console

On-Line Interface

Host System Capability:
IBM System/370 Models 135 and larger
(plug compatible or equivalent)
IBM System/360 Models 30 and larger
(plug compatible or equivalent)
IBM 43xx series
IBM 303x series

Host Software Compatibility:
OS/VS/370
OS/360
DOS/VS/370
DOS/360/370

Off-Line Tape Input

Data Input via 1600 BPI (PE) or
6250 BPI (GCR) magnetic tape.

Acceptable formats include:

- ANSI standard labeled tape.
- IBM OS/360/370 and DOS/360/370 standard labeled tape.
- IBM DOS/360 GRASP tape.
- IBM DOS/360 POWER II tape.
- IBM POWER/VS tape.
- UNIVAC series 70 (US70) tape.
- UNIVAC 1100 SDF tape.
- Honeywell 200/2000 labeled tape.
- Honeywell 600/6000 standard system format labeled tape.
- Xerox standard labeled tape.
- IBM OS/WRITER tape.
- Burroughs Medium Systems printer backup tape.
- Burroughs Large Systems printer backup tape.
- ICL 1900/2900

Operating speed up to 120 images per minute regardless of character number, font set, page orientation or form utilization.

Data input buffer, using overlayable intermediate disc storage, is sufficient to store up to 6400 pages of typical print density input.

- Unlimited additional copies of output sets can be made without reloading the input tape.
- Subsequent print jobs can be asynchronously transferred to the input buffer while printing is in progress.

Paper used is 210mm by 297mm plain xerographic cut sheet. Pages may be perforated, drilled, coloured or pre-printed.

- Acceptable weight range from 75 to 200 gsm.

Two Input Paper Trays facilitate automatic selection of alternate paper types or weights for printing front and back covers and logical selection of interspersed pages.

Two Output Stackers enable the operator to remove completed output sets from one stacker while the other stacker is being filled. This allows for non-stop output production.

- Output sets are automatically collated and stacked ready for immediate distribution.
- When one stacker is filled, the operating system automatically switches output flow to the empty stacker and notifies the operator of the filled stacker.

Print line orientation to the page is programmatically selectable as landscape (horizontal), portrait (vertical) or inverse portrait (inverse vertical).

- Page orientations may be mixed within an output set.
- Print orientation may be mixed within a single page.

Resolution:

300 dots per inch vertical; 300 dots per inch horizontal.

Standard Software

- Operating System includes:
- Job Description Compiler.
 - Form Description Compiler.
 - Source Editor.
 - Problem Diagnostic System.
 - Executive.

Paper Capacity

Input Paper Trays:

Main, 2500-page capacity 80gsm.

Auxiliary, 400-page capacity 80gsm.

Output Stackers:

Two bin modules, 1500-page capacity 80gsm each, with job or run offsetting capability.

Sample Output Tray - 25 pages.

Physical Characteristics

Dimensions (maximum)	Length (cm)	Depth (cm)	Height (cm)	Weight (kg)
Printer Complex	343	189	117	1172
System Controller	119	79	178	591
Power Module	76	50.8	56	204
CRT Console	38	51	35	11

Access Requirements:

1m Clearance on all sides for maintenance access.

Environmental Requirements:

Recommended Operating Temperature $22^{\circ}\text{C} \pm 2^{\circ}\text{C}$
Minimum/Maximum Operating Temperature 15°C to 29°C
Recommended Relative Humidity $45\% \pm 10\%$
Minimum/Maximum Relative Humidity 15% to 65%
Heat Dissipation:
Operating 38000 Btu per hour
Standby 25000 Btu per hour

Electrical Requirements

System Complex # 3 phase, 4 wire
375/435V AC
line to line
50Hz
6kVA per phase.

The exact location of the machine in relation to walls and furniture depends on the need for adequate ventilation and access for servicing.

Whilst the information contained in this brochure is correct at the time of going to press, Rank Xerox reserves the right at any time to change the specifications of the equipment described herein without notice.

Designed by Adams and Bloomfield, London.

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