

NBI System 3000 Paperwork Processor™

Specifications – Single Station

Our Paperwork Processors are modular, software-based visual display word processors that will perform countless typing jobs. Not to mention record keeping and communications.

They eliminate much of the time-consuming operations that currently burden secretaries and typists. They do typing, filing, mailings, basic math, and editing work. Simply. Rapidly. Cost efficiently. And automatically.

The Single Station is the basic configuration.

Components

- Master Station, Single Disk Drive
- Movable Keyboard
- Character Printer
 - 55 Characters Per Second
 - Bi-directional
 - Interchangeable Fonts

Features

- System Controls
 - Disk Drive Locks
 - Software Controlled Off
 - Background Printing
 - Power Fail Protect
 - Two Hour Battery Back-up



Features (cont.)

Record

Automatic carriage return
 Automatic indent
 Automatic centering
 Single keystroke paragraphing
 Automatic underscore
 Block overstrike
 Multilevel super & subscripts
 Automatic footnote control
 Automatic outline format
 Automatic paragraph numbering
 Phrase dictionary
 240 character typing line
 Horizontal scroll
 Automatic pagination
 Headers, trailers & page numbers
 Automatic hyphenation pass
 Recorded tabs
 left flush
 right flush
 decimal
 center
 dot leader
 Automatic widow/orphan control

Document control & filing

Automatic directory
 Typist & author records
 Time & date tracking
 Available disk space
 Disk password security
 Document password security

Revision

Scrolling – forward & backward
 Scrolling – left & right
 Page scroll
 Search to any page
 Search to text
 Unlimited insertions
 Delete – character, word, line, block
 Unlimited text movement
 Block text copying

Search & replace
 global or verified
 exact or matched case
 Tabular revision
 delete columns
 swap columns
 Automatic adjust
 Automatic repagination

Special applications

Automatic letter writing
 Paragraph selection
 Automatic outline format
 Automatic index creation

Printing

55 characters per second
 Right justification
 10, 12, or 15 pitch
 13.2" writing line
 Single sheet or continuous
 Eight document print queue
 Printwheel memory
 Multifont printing

Format controls

Page length
 Line spacing
 Left margin
 Top margin
 Paragraph indent
 Character spacing
 Line length
 Text length
 Paragraph spacing
 Justification
 Proportional spacing
 Automatic multi-column

Physical Characteristics

Unit	Height	Depth	Width	Weight
Master station	14.50"	27.0"	25.00"	95.0 lbs.
Printer	7.11"	13.5"	23.63"	28.0 lbs.
Proportional printer	13.00"	16.0"	24.00"	27.0 lbs.
Wide document printer	7.11"	13.5"	36.50"	37.2 lbs.
Dual headed printer	7.11"	13.5"	36.50"	40.0 lbs.

Optional Features

Printer options

Proportional spacing
 40 characters per second
 10, 12, or 15 pitch and PS
 Wide document printer
 33 characters per second
 28" maximum page width
 28" maximum writing line
 Dual headed printer
 35 characters per second
 28" maximum page width
 13.2" maximum writing line
 Sheet feeder option
 180 sheet capacity
 Second disk drive
 Second printer
 any mix of printers
 Statistical math package
 columns & rows defined
 add, subtract, multiply, divide
 sums and means
 percentage distribution
 Equation mode
 14 levels displayed
 math symbols displayed
 Greek symbols displayed
 Asynchronous communications
 NBI compatibility
 ASCII terminal
 software selected speeds
 background operation
 auto dial supported
 auto receive supported
 Sort/select
 Forms print



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NBI System 3000 Paperwork Processor™

Specifications – Dual System

Do you have a paperwork load that's too heavy for a single station Paperwork Processor? Then you need the dual station.

Since the Paperwork Processors are modular systems, you can expand their capabilities without changing or trading in any of the components used in your original configuration.

When you're ready, move up from a single station to a dual station – simply by adding a second editor and keyboard to your single station.

It's easy. It's inexpensive. It's the NBI way.

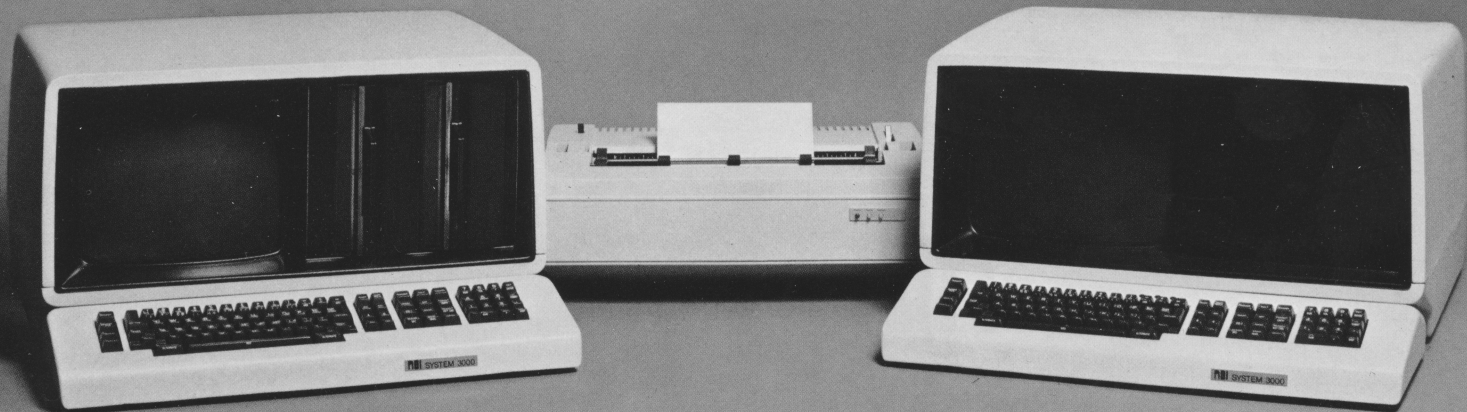
Components

- Master Station, Dual Disk Drive
- Second Video Typing Station
- Two Movable Keyboards
- Character Printer
 - 55 Characters Per Second
 - Bi-directional
 - Interchangeable Fonts

Features

System Controls

- Disk Drive Locks
- Software Controlled Off
- Background Printing
- Power Fail Protect
- Two Hour Battery Back-up



Features (cont.)

Record

Automatic carriage return
 Automatic indent
 Automatic centering
 Single keystroke paragraphing
 Automatic underscore
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 Recorded tabs
 left flush
 right flush
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 dot leader
 Automatic widow/orphan control

Document control & filing

One disk per typing station
 Automatic directories – two
 Typist & author records
 Time & date tracking
 Available disk space
 Disk password security
 Document password security

Revision

Scrolling – forward & backward
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 Search to any page
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 Line length
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 Justification
 Proportional spacing
 Automatic multi-column

Physical Characteristics

Unit	Height	Depth	Width	Weight
Master station	14.50"	27.0"	25.00"	95.0 lbs.
Second video station	14.50"	27.0"	25.00"	50.0 lbs.
Printer	7.11"	13.5"	23.63"	28.0 lbs.
Proportional printer	13.00"	16.0"	24.00"	27.0 lbs.
Wide document printer	7.11"	13.5"	36.50"	37.2 lbs.
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Equation Typing Package

Typing equations, formulas, and mathematical symbols have always been a problem. Many of them were just too many levels high and too many characters wide.

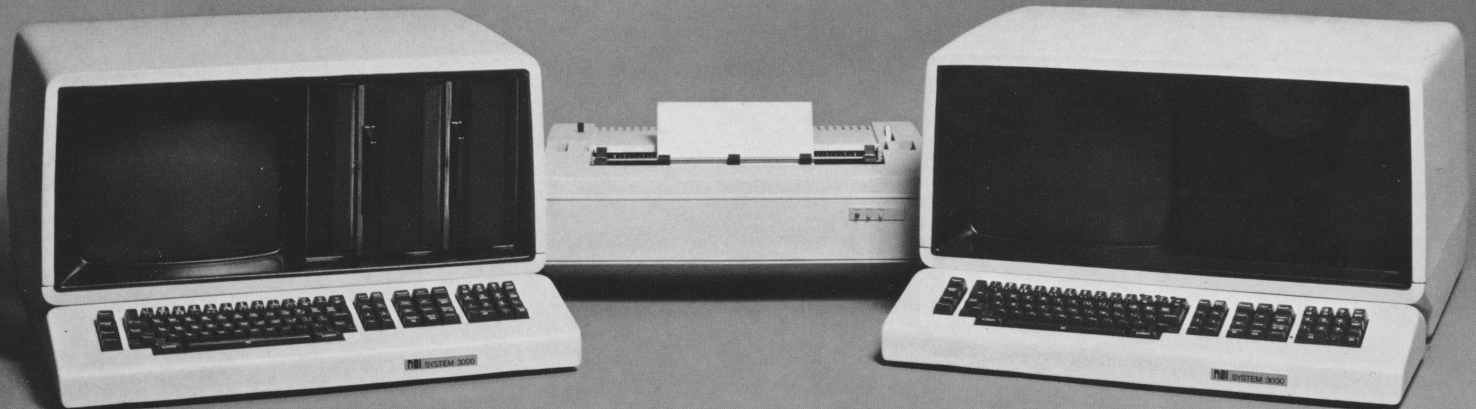
But the NBI System 3000 Equation Typing Package can handle complex expressions up to 14 levels high and 80 characters wide. You won't need to keep track of any more superscripts or subscripts. And you won't need arrows all over the screen to position your text.

This is just one example of the equations you can create. It was printed on our TwinTrack printer and appears on the screen exactly as you see it here:

$$f^{(n)}(z) = \frac{n!}{2\pi i} \int_C \frac{f(\xi)}{(\xi - z)^{n+1}} d\xi$$

You can also create special characters from three other type styles and see them right on the screen as they will appear in printout. So a delta will actually look like a Δ on the screen. (An added feature is our easy-to-follow keyboard card guide that helps you create those special characters.)

Revising equations is simple with the NBI Equation Typing Package. Text can easily be inserted and deleted without repositioning already created expressions.



Features

Automatic centering of equations
 Centered fraction bar
 Automatic numbering of equations
 Format controlled with standard
 1/2-line spacing
 Overstrike
 80 character typing line
 Tab positioning – left flush and
 right flush
 Automatic translation of special
 characters to correct printwheel
 Crosshair cursor for easy alignment
 Special symbol screen display

α	β	ξ	δ	ε	†	γ	η	ι	•	κ	↑	ω
ν	≈	π	μ	ρ	σ	τ	θ	λ	φ	ψ	υ	ζ
□	∞	Ξ	Δ	∂	←	Γ	∫	¬	≡	≠	→	Ω
∑	α	Π	√	∇	Σ	≡	∅	Λ	Φ	Ψ	Τ	~
∫	{	}	[]	>	<	()				
	●	▷	◁	◂	◃	⊥	∨	ℓ				
∓	○	n	u	£	τ	∧						

Revisions

Insertions – characters, word, line,
 symbols, expressions
 Deletions – character, word, line,
 symbols, expressions
 Unlimited equation movement

Format Controls

Line length
 Left margin
 Character spacing – 10, 12, 15 or 20 pitch
 Vertical line spacing – 1/2, 3/4, or 1-1/2
 Centering to 1/120th inch

Printing

13.2" writing line
 Printwheel memory
 Multifont printing

The sample below illustrates the various
 revisions mentioned:

Original Expression:

$$p_n^{(\alpha, \beta)}(x) = \frac{1}{2^n} \sum_{m=0}^n \binom{n+\alpha}{m} \binom{n+\beta}{n-m} (x-1)^{n-m} (x+1)^m$$

Insert a+b+c
(the entire expression will move to the right)

Add $\frac{\Delta+\pi}{\Delta+\pi}$ and move to base line
(the entire expression will move up)

Revised Expression:

$$p_n^{(\alpha, \beta)}(x) = \frac{1}{2^n} \sum_{m=0}^n \binom{n+\alpha}{m} a + b + c \binom{n+\beta}{n-m} (x-1)^{n-m} \frac{(x+1)^m}{\Delta+\pi}$$

NBI

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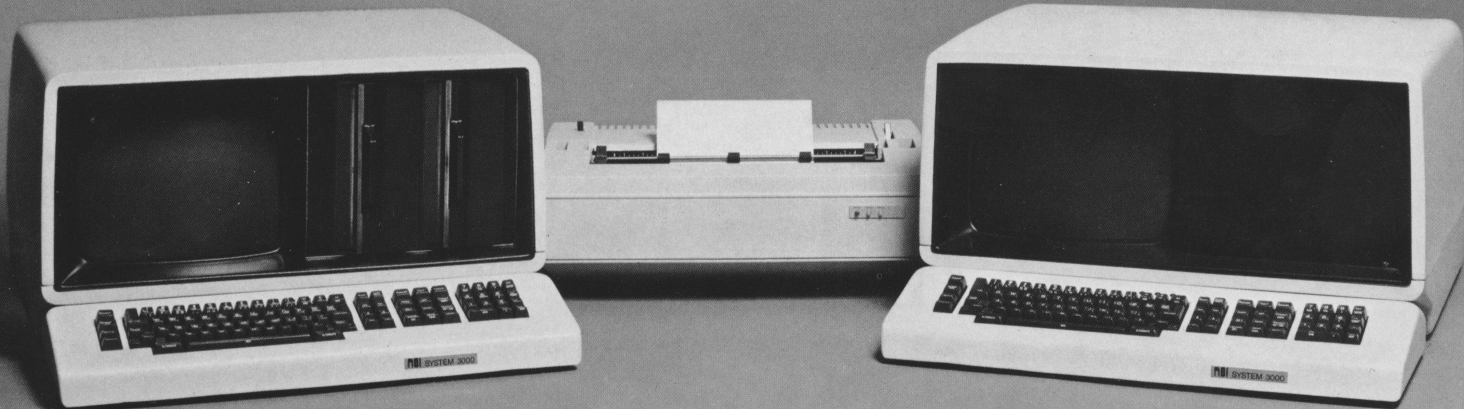
Asynchronous Communications Package

No matter how advanced information processing and computer technology become, there's usually one major bottleneck in information distribution. That's getting data from your computer to your word processing center.

The time and effort involved in processing, copying, filing and mailing are, of course, increasingly expensive. And how comfortable are you trusting critical internal documents to the speed and efficiency of the mail service?

Now information stored in your computer can be transmitted over standard phone lines and reproduced in a typewriter quality format. No more retyping from a computer printout. No more delays. And the System 3000 can be adapted to communicate with several different types of computers.

System 3000. The answer to easy, efficient information distribution and access in your office.



Features

Communication capabilities

- Point-to-point communications
- Point-to-computer communications
- Point-to-peripherals communications
- Transmission code sets
 - ASCII
 - IBM 2741 correspondence code
- Communications protocols/asynchronous
 - ASR 33/35/37 teletype
 - TWX
 - IBM 2741
- Communications interface
 - EIA standard RS-232-C
 - 2 communication ports
- Communications modems/data sets
 - asynchronous protocol
 - 50-1200 baud/BPS
 - voice grade lines (unconditioned)
- Hardwired communications
 - asynchronous protocol
 - 50-4800 baud/BPS
 - 20, 100, and 250 foot cable
- Self diagnosis
 - modem and line checking

Communications Procedures

Transmit

- 8 document transmit queue
- Selected data transmission
- Transmit while draft or edit
- Document assembly
- Selected pages

Receive

- Auto data terminal ready
- Auto answer
- With or without embedded coding
- Receive while draft or edit

Converse

- Access to transmit or receive modes
- 14 line screen monitor
- Print while receive (up to 300 baud)

Line speed

- Selectable 50-4800 baud/BPS

Display status

- Port number in use
- Document name in use
- Tailor name in use
- Line speed in use
- Error count

Communications tailoring

- Handshake or stream transmit/receive
- Blocking control
- Error checking
 - parity
 - longitudinal redundancy checking
 - block sequence

- Error re-try

- Code set translation

- User defined enquiry answerback

- Split case code sets

- Supports 5, 6, 7, 8 bit code sets

- Escape sequence/code set compression

- Tailor converse mode characteristics



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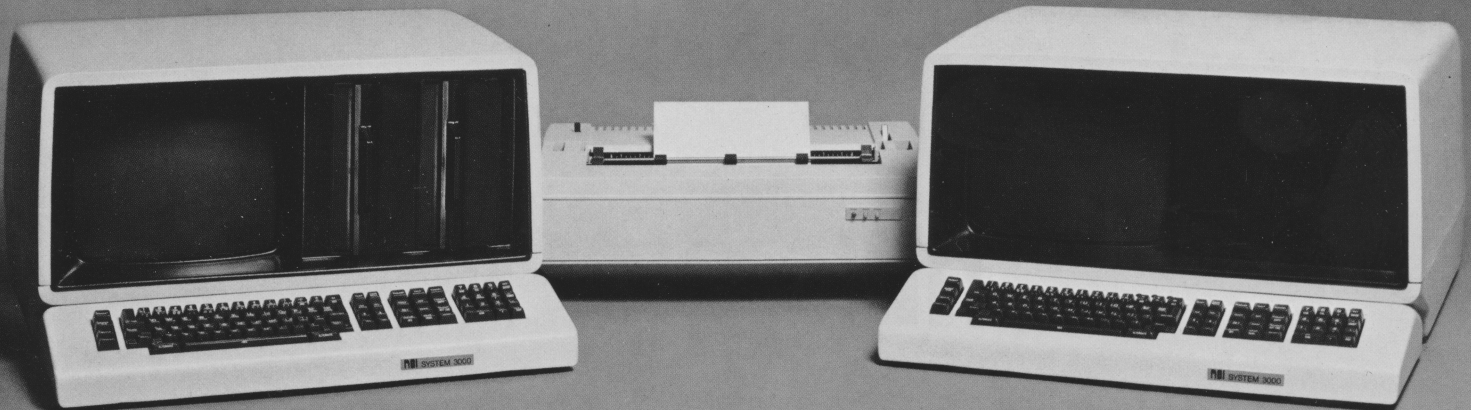
Records Processing Package

Do you have files of information in your office, such as directories, personnel records, inventories, vendor lists, and the like? Then you know what a problem they can be if handled manually. Now, however, they can be maintained automatically with our System 3000 Paperwork Processors Records Processing Package.

The package lets you electronically maintain, update, and expand files, and reorder files in ascending or descending, alpha or numeric order. All automatically. The files may contain up to 70 fields of information, with files up to 200,000 characters in length. In addition, the Records Processing Package lets you copy the file while sorting, or sort the original file into new sequence, whichever you choose.

Another powerful feature of the package is its ability to apply a wide range of selection criteria to files. So you select only those records you desire to create a new file for special purposes. And these selection criteria can even be combined in the same pass to create a truly unique management information tool.

Only those fields of information required for a specific application need be included in the newly selected file. And they are then resequenced in an order that matches the individual job perfectly.



Once sorted and/or selected, the information fields used with Records Processing can be merged with other formats or text in the forms fill-in or automatic letter modes. Files or portions of files which have been sorted or selected may be placed in word processing documents (with full System 3000 text editing capabilities available) for the generation of final reports.

And for help in preparing financial reports, the Records Processing package can even be used in conjunction with our Statistical Math Package.

Sort Features

200,000 Character Maximum File Size
 70 Field Records
 32 Field Sort Criteria
 238 Character Single Line Length
 Multi-line Records
 10 Character Field Name
 80 Character Command Line
 128 Character Sortable Field
 Unlimited Field Size
 Sort by partial fields
 Copy File
 Sort Existing File
 Automatic Record Coding
 Sort Criteria
 Alpha
 Numeric
 Ascending
 Descending
 Alpha and Numeric
 Multiple Field Sort

Select/Copy Features

200,000 Character Maximum File Size
 70 Field Records
 32 Field Select Criteria
 238 Character Single Line Length
 Multi-line Records
 10 Character Field Name
 80 Character Command Line
 128 Character Sortable Field
 Unlimited Field Size
 Select by partial fields
 Select Criteria
 Equal To
 Less Than
 Greater Than
 Greater Than and Equal To
 Less Than and Equal To
 Not Equal To
 Select Fields
 Re-Order Fields
 Combine Select Criteria
 And
 Or
 Not



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