

*A Datapro Feature Report*

**All About  
Word Processors**

**datapro**

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## Word Processing Systems

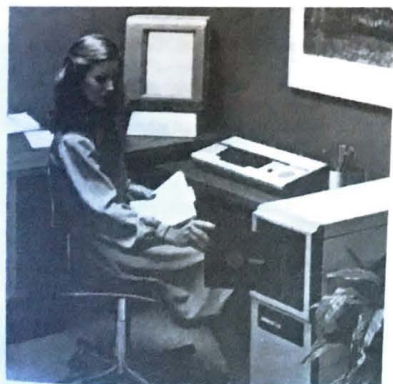


IBM OS 6/452

▷ Selectric Typewriter (MT/ST). Introduced in 1964, this tape cartridge typing system ushered in the age of word processing.

The first MT/ST models constituted an evolutionary advance over paper tape media automatic typewriters. Overall functional capabilities of both machine classes were almost identical. The MT/ST could, however, perform such functions with a higher degree of ease and speed. Magnetic tape can be erased and re-recorded; punched paper tape cannot. MT/ST tape is more "compact", having a storage density of about 20 characters per inch versus 11 characters per inch for paper tape. Present-day magnetic tapes have even higher storage densities. Magnetic tapes can be handled and stored more efficiently than paper tape, and transport search/retrieval speeds on typing systems are faster.

In 1969, five years after the first MT/ST models appeared, IBM introduced the Mag Card Selectric Typewriter (MC ST)—a word processing typewriter that employed a reusable, page-recording, magnetic card



Xerox 860 IPS

storage medium. The page-orientation of this mag keyboard was easy for typewriter operators to conceptualize, and the MC ST met with high acceptance. The popularity of this model made it the "norm" to which all other word processors were matched. Two years later, Redactron introduced a line of magnetic card and magnetic tape typewriters. Competition had started, and a new industry was born.

The 1970s witnessed fast and furious activity in word processing. Lexitron and 3M Linolex introduced the first video display systems in 1972. Concurrently, Comptek Research was among the first to offer a shared-logic, multi-keyboard computer system dedicated to word processing tasks. Vydec became the first manufacturer to incorporate diskettes with a word processor in 1973. These technological milestones were coupled with the entry of many new companies into the market. The most prominent (not including those firms already mentioned) are Olivetti (1971); CPT and Wang (1972); Savin (1973); Royal and Xerox (1974); A.B. Dick, Lanier, and Digital Equipment (1976); and AM (1977). Over 50 firms are now involved in the direct marketing of word processing equipment in the U.S., with many more waiting in the wings with to-be-announced systems. The 100-odd word processors sold can be classed into two main categories—standalone word processing products and multi-terminal word processing systems which include shared logic and resource configurations.

### STANDALONE WORD PROCESSORS

A classic standalone word processor consists of a single station configuration which contains its own control logic. Within this classification are five specific types of standalone systems:

- **Electronic Typewriters** — These devices may best be described as the electronic equivalent of the electro-mechanical typewriter. The electronic typewriter emerged in 1978 when Qyx introduced the Intelligent Typewriter. Since that time a number of other vendors have entered this market and within the next few years virtually every type writer vendor will have an electronic typewriter to offer. Electronic Typewriters take their place at the extreme low end of the word processing market as a logical upgrade for existing users of single element electric typewriters. They are generally intended for the traditional office environment at the secretary's desk rather than in the word processing center. Though not full-fledged word processors, electronic typewriters feature small buffer memories for minimal text or phrase storage and recall; these devices also incorporate a number of features such as automatic centering, automatic numeric alignment, automatic underlining, and automatic carrier return, that facilitate the keyboarding and revision of small amounts of text on a first-time-final, or limited revision basis.

- **Standalone Mechanical Systems** — Standalone mechanical word processors consist of an integral keyboard printer (usually a modified Selectric Typewriter) that is coupled with edit and control logic. ▷

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▷ internal memory, and an auxiliary magnetic media recorder (card, cassette, tape cartridge, or diskette). On such mag keyboard word processors the printer is used to generate text for editing operations as well as for final document output. A standalone word processing typewriter without display capabilities can range in price from \$4,000 to over \$10,000. Though not representing the current "state-of-the-art" in word processing technology and capability, standalone mechanical systems are perhaps still the most widely used word processors. Available since the mid-1960s and long into the 1970s, these systems are best suited for automatic letter writing and other page-oriented applications.

- **Standalone "Thin Window" Display Systems** —

These systems consist of an integral keyboard printer and a one-line or partial-line CRT or gas plasma display, affording a window into memory; such systems ease editing tasks and offer the operator a series of visual cues during the text entry and editing process. Olivetti and Artec were the first firms to enter this market; Xerox joined in October 1977 with the announcement of the 850 Display Typewriter. In 1978 Qyx and A.B. Dick entered the "thin window" marketplace. Qyx introduced the Intelligent Typewriter in January 1978; Levels 3, 4, and 5 of the modular, expandable Qyx product may be optionally equipped with a one-line, 24-character display. A.B. Dick introduced the Magna II in June of 1978; this product is an enhanced, 32-character, one-line display version of the Magna One word processor. In addition to these two products, Olivetti introduced their second "thin window" offering, the TES-401, in June of 1978.

- **Personal Computer Systems** — Recent innovations in personal computers have taken them out of the home/hobby environment and placed them in the hands of educators, professionals, and businesses where they are found in serious use as standalone data/word processors. A personal computer is typically a general-purpose, standalone, microprocessor-based system that relies on conversational interaction between it and its operator and has a base purchase price of about \$2000 or less. The microprocessor is often an Intel 8080-compatible Zilog Z-80, a Motorola 6800, or a MOS Technology 6502 8-bit system with built-in RAM memories from 4KB to as much as 64KB. It also includes software sufficient to permit a layman to gain productive use and enjoyment out of the system in a typical home, education, or small business environment.

The system is usually supplied with a keyboard and a limited configuration of peripherals. Additional peripherals are widely available, either from the system vendor or independent sources. Most personal computer systems permit the use of cassette tape for program and data storage with 5¼- or 8-inch diskettes becoming increasingly popular. User interface generally takes place through the keyboard and a black and white CRT display, or monitor, that is provided with the



Dictaphone/Artec Dual Display

system. Some systems provide an interface that allows the user to attach his own color or black and white TV set as the system's display monitor.

Word processing applications software allowing for a full range of text editing capabilities is usually available from the vendor or from numerous software houses that write software programs for these systems.

- **Standalone Display-Based Systems** — The Standalone Display word processor category represents one of the most active sectors of the word processing marketplace. This type of word processor replaces the keyboard printer with a keyboard and video display (partial or full-page) terminal plus single or dual media drives (usually diskette) and a separate printer. With this type of word processing configuration, text is keyed, edited, and changed on the display before printout. The display-based word processing workstation is becoming the building block of the automated office of the future and as such will or may already be used to perform a number of integrated functions such as data processing, electronic mail, administrative support, and personal computing. Standalone display-based word processors are priced from \$10,000 to over \$20,000—the higher-priced exceptions sometimes offering data processing and other capabilities, as well as word processing.

Video standalone word processors have internal or buffer memory systems capable of holding in excess of a display page of text. Such extra capacity allows lines to be scrolled through the display for edit, update and revision, and allows the addition of new text to a document file. Text is either called up into memory from files stored on magnetic media (usually diskette), or directly keyed.

Most (but not all) printer-only standalone word processors contain only a line buffer for internal memory. Exceptions with large buffer capacities employ such ▷

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A B Dick Magna SL

into a master card, tape, etc. Such tasks on single media word processors are performed in a less automatic manner, and usually require more direct operator intervention.

Optional peripherals offered for standalone word processors usually include communications paper feed devices, OCR, and higher speed printer capabilities. A few printer-only standalones (CPT 4200 and Wang 1222) also offer limited display capabilities as an optional add-on feature. Whereas some video standalones provide full-page, 60-line or more viewable screen capacities and large internal buffers, only partial page or less capacities are provided by these add-on screens.

### MULTI-TERMINAL WORD PROCESSORS

A multi-terminal word processing system, as the title suggests, is a word processing system configuration which incorporates more than one workstation, where these stations share one or more particular resource. Included in this broad category of equipment are shared-logic and shared-resource systems. Multi-terminal word processing systems are suited to large environments where it may be desirable to share work files among many operators, and share peripheral devices among workstations thereby maximizing the potential of these devices.

- **Shared-Logic Systems** — Shared logic multi-terminal word processing systems are quite similar in concept to time-shared or key-to-disk computer systems common in the EDP industry. Such systems share the logic, storage and peripherals of a central computer among a number of keyboard editing stations. Typically, a maximum of 12 stations may be supported by the processing power of a central mini-computer, although some shared-logic configurations may support up to 35 or more stations. High-speed printers (line, belt, matrix, electrostatic, etc.) are often employed by such systems, especially where a first draft copy is required on an "instant" basis. Otherwise, printout is typically

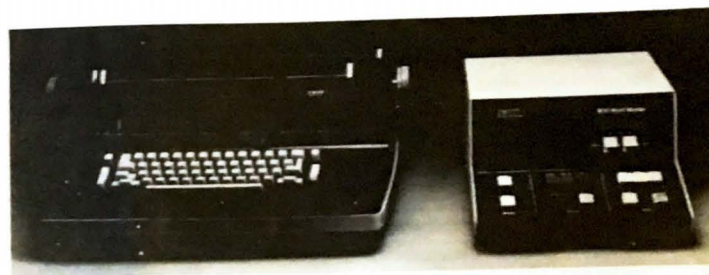
- ▷ memory in lieu of an additional mag media station. Thus, a single mag card keyboard with extra buffer capacity in many instances can be more than a match for a dual card system with only a line buffer.

Buffers aside, dual media station (dual card, dual cassette, dual diskette, etc.) word processors have a degree more flexibility than their single media counterparts. Card-to-card, tape-to-tape or disk-to-disk operations are possible. New or revised text can be keyed and merged with existing files, printed and then stored. Address lists and special inserts can be combined with boilerplate on an automatic basis to generate "customized" form letters, new additions to such address lists may also be collated



Lanier No Problem Shared and Cluster Systems

## Word Processing Systems



Savin 900 Word Master

- ▷ performed on one or more daisy wheel printers. Operator input and editing is usually performed on video display terminals. Other peripherals include OCR input, disk cartridge or pack storage, computer-compatible magnetic tape storage, mark or punched card readers, communications, photocomposition interfaces or punched paper tape output, and any other of the many devices that may be attached to a computer-controlled system.

Shared-logic systems not only share the logic but also share the cost of the system among a number of keyboard stations. Word processing power that might be cost-prohibitive on a single keyboard standalone system can be attractive when spread over a number of stations. Thus, shared-logic systems can provide greater control logic and edit capabilities, and larger on-line memory and storage capacities. Text can be stored, searched and retrieved as multi-page documents, maintaining page format and pagination throughout a number of updates and revisions. A number of word processing tasks may be performed almost simultaneously on a number of operator stations. Printout may be performed while text is being keyed or edited, a feature less common among standalone word processors.

An intermediate "cluster" type of shared-logic word processor is available for users who find the shared-logic concept attractive but presently lack the volume to justify the purchase of a large shared-logic system. Cluster systems are somewhat less expensive, but offer most of the text editing features inherent in a full-blown shared-logic system. The main limitations are the ultimate number of stations supported (usually four to six per cluster), and on-line storage capacities. The system is thus viable for users who require fewer stations on an initial or even ultimate installation basis. Clusters may even appeal to a high volume user who may wish to disperse tasks among a number of clusters rather than place them all on a single system. A system malfunction in this instance would not idle the entire word processing facility; only one cluster would be disabled rather than the entire shared-logic system.

- **Shared-Resource Systems** — The shared-resource word processing system is another type of multi-terminal word processor configuration. Shared resource systems encompass a broad range of configurations, but have one thing in common: each workstation within a shared resource system contains its own intelligence and processing power. Outwardly much like a shared logic system, shared resource word processors, since intelligence is dispersed to the operator stations and sometimes the shared peripherals, offer greater integrity than their shared-logic counterparts. A malfunction of one particular station would not shut down the entire system. The shared resource concept had its beginnings in the mid-to-late 1970s when standalone word processor manufacturers joined the cluster bandwagon by sharing a printer among two or more workstations as a simple means of enhancing their own word processors. This concept has grown in popularity, and now a number of standalone vendors are offering not only shared printer options, but shared disk file and other shared peripherals. Such shared configurations offer the standalone user a means of modular, upward expansion, and offer the standalone vendor a means of competing in the more lucrative shared-logic market.

On first appearance, the cost of a multi-terminal, word processing system might seem high. The true cost, however, must be measured on a per-station basis, and on the processing power extended to each station by the system. Price tags range from under \$25,000 to over \$150,000, but the per-station cost is usually in the \$10,000 to \$20,000 range—similar to the cost of a standalone video word processor with which the multi-terminal system usually competes.

### OTHER TYPES OF WORD PROCESSING

The availability of time-shared word processing services from a number of vendors provides an alternative to (or a back-up for) internal user-owned equipment. Computer terminals or communicating word processors at the user site are employed to access the word processing power of a remote computer system via the telephone network. By sharing such power amongst a number of

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users, the time-shared service vendor can provide sophisticated functions at modest costs. A companion Report covers such services in more detail.

A new category of word processor employs a distributed logic concept. Outwardly much like a shared-logic system, distributed logic word processors disperse intelligence to the operator stations, the printers, the storage modules or other system peripherals rather than concentrating such intelligence at a central processor module. From the operator or user point of view, such dispersed systems function in a manner almost identical to a shared-logic system. However, since intelligence or power is dispersed, a malfunction would not necessarily shut down the entire system.

### GENERAL FEATURES

Word processing systems are able to produce printed output at speeds from 100 to 540 words per minute on quality impact printers to 36 to 120 pages per minute on electrostatic devices. In time-shared or shared-logic systems, a separate high speed line printer is often located in a central area and used for high volume work (direct mail labels, envelopes, form letters) at speeds often exceeding 20,000 wpm.

Depending upon the particular system, more than a dozen knobs, control buttons, switches and/or signal lights will be found on the basic keyboard console in addition to secondary edit functions piggy-backed onto many of the traditional typewriter keys. The typical word processing system can be operated by existing secretarial personnel after training sessions ranging in length from several hours to several days.

While it is true that word processors are often more efficient when operated by personnel who are machine-oriented rather than people-oriented, the most sophisticated equipment (in terms of features and functions) is often the easiest to operate and the fastest to learn. This seeming incongruity is explained by the tutorial devices included in many of the more sophisticated systems. Often, the operator need memorize only a few key commands initially, with the system providing cues as to how to proceed and "menus," listing the options



The IBM Displaywriter System consists of desk-top display and electronics modules, typewriter-like keyboard, any one of three typewriter-quality printers and removable diskette storage.

available at any point in the editing process. Other equipment manufacturers, mindful of the high costs of individualized training, have collaborated with training film vendors to produce self-training programs which the user may buy to train (and retrain) successive operators.

Viewing or display screens have significantly improved the text editing I/O word processing cycle. Simple line displays eliminate the need for some intermediate hard copy output. Full-page displays offer the added advantages of allowing each page to be scanned in its entirety before storing or printing. Thus, the operator has control over complete page balance and appearance, as well as the ability to enter or delete text (character, word, line, paragraph, page) at will. The display also allows the printer unit to be separated from the keyboard. Other non-Selective type printers using the "Daisy" wheel form of print element offered by Diablo or Qume can be employed; their disadvantage of having the typed line covered by the wheel element mechanism may be alleviated by a display screen.

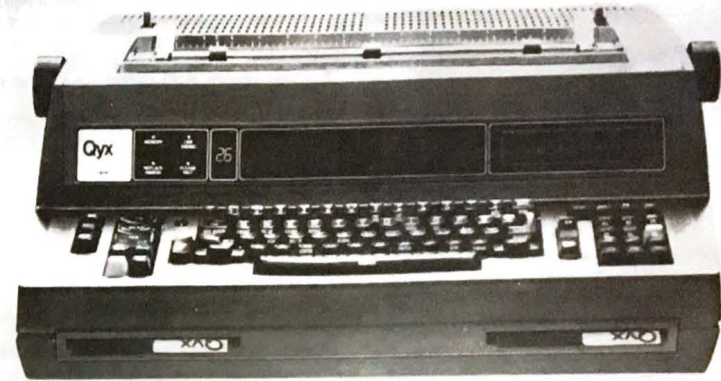
Full and partial page display capability can be found on standalone systems, shared-logic configurations, or time-shared systems. In general, a considerable degree of intelligence is needed to support the full page display capabilities of line roll up down (scrolling), insertions/deletions within the middle of sentences, etc. In fact, the only disadvantage of the display-oriented systems (assuming that their higher cost is turned to good advantage through increased productivity) is that some of the systems can lose up to a full page during editing if a power failure is experienced before the page is stored.

By establishing separate job positions for correspondence and administrative secretarial personnel, improvements in efficiency through functional specialization can be achieved. A standard method of achieving this specialization has come to be the company-wide dissolution of the private secretary position in favor of a centralized word processing center plus one or more administrative support positions in locations near executive personnel requiring such service.

It should be noted that the concept of a word processing center need not involve a large number of secretarial personnel, but merely functional centralization. It is reasonable for a small office or for decentralized departmental areas within a large company to have a word processing center consisting of 1 or 2 persons. Thus, wholesale restructuring of an entire company's secretarial support with elimination of all personal secretaries is not necessarily required in order to initiate efficient word processing operations.

Beside the notion of dividing duties to conquer the workload, word processing also emphasizes the concept of professional supervision. Even without the use of automated equipment, having secretaries report to a single supervisor, whose main concern is efficient handling of the total secretarial workload, will have positive effects on productivity. When combined with the increased productivity attributed to the technology of automation, >

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Qyx Intelligent Typewriter Level Five

> such increases can have a significant effect on the firm's cost saving efforts.

Another aspect of functional centralization into word processing centers is that the secretary, upon being freed from a direct employee-supervisor relationship with a particular principal, is now viewed as a professional and can compete directly with others for advancement without compensation and status being linked to that of a particular boss.

While a word processing center can operate to make the traditional office environment somewhat less personal, a key difference should be observed between word processing centers and the rather more old-fashioned secretarial pools. While the secretaries in a pool report to a single supervisor and are physically centralized as are personnel in word processing centers, each member's functions in a pool can continue to be general purpose in nature. Their equipment tends to be electric typewriters rather than newer automatic equipment, and when a principal requires dictation or other secretarial services the pool member is likely to leave the pool to work at the principal's location. In word processing centers the personnel will depend upon dictation or messenger services to obtain input material, and physically perform their secretarial typing support activities in the word processing center. Where non-typing administrative functions are required, the appropriate administrative secretaries can be used.

### APPLICATIONS

During the last ten years, the earliest and strongest advocates of word processing have been service-oriented companies who regularly manipulate paper, and who consider paperwork costs to be equivalent to a manufacturing organization's production costs. Such paper-intensive organizations include insurance companies, banks, law firms, and administrative government agencies. The primary step in advancing the word

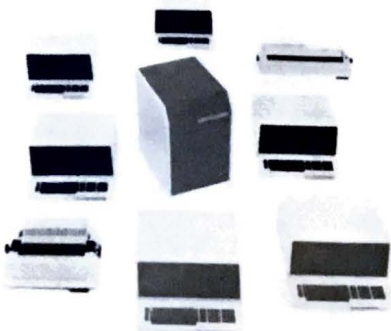
processing concept to these firms was the development of automatic typewriters.

Based upon early piano roll player systems used to drive standard typewriters, service bureau automatic letter writing shops using automatic typewriters have been popular since the mid-1950s. Producing hundreds of personalized form letters per day, the typing system comes to a halt at specified places for the insertion of date, name, address, greeting, etc. Newer typing systems with magnetic recording media, internal memory, and visual displays have become available, extending applicability of the automatic typewriters to include merging of pre-recorded typed phrases, lines, and paragraphs; rough drafting to transcribe dictation onto magnetic media at high speed for subsequent error correction; and full-fledged text editing allowing for right margin justification (with support for hyphenation) or full line justification (all words ending evenly on right margin) with blank space insertions if necessary; and photocomposition equipment interfacing.

The most widespread office application for word processing systems continues to be typing of letters and memos. Lengthy text editing, statistical typing and pre-printed forms preparation continues to increase. These last two word processing applications are spreading outside the service-oriented companies who were the first to use the automatic typing equipment. Proposal-writing groups, purchasing offices, and accounting departments in a variety of companies (industrial, utility, transportation, shipping, and distribution firms) are now focusing attention upon this type of office automation.

A large and growing application for word processing systems is records processing. The advent of such capability brings word processors into a new realm. Instead of being employed for just correspondence and text handling work, word processors with records handling capability act as information processors. From just a letter writing point of view (and the applications for >

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NBI OASys 8 Network

records handling sort, select capability are endless), word processors with records handling capability are able to, for instance in a sales office environment, prepare and route letters to specific, metropolitan areas or sales territories; to prospects with minimum gross sales volumes; to organizations having a certain number of employees; and to other entities based upon specific identifying qualifying criteria. Inquiry retrieval features can allow determination of the number and identity of business prospects for a given area or a given product. Dunning letters can be generated with a single operator command for overdue accounts, carrying an itemized list of unpaid items imbedded in the text of the letter.

Word processing systems are thus entering an era where they will be assessed as administrative support systems as well as document handlers. When viewed from this prospective, such information processors will be cost-justifiable in a number of new environments, and will be employed innovatively, supporting many administrative tasks such as calendar, tickler files, file indexing, electronic mailbox, list and record maintenance, and so forth.

### ADVANTAGES

The main advantages of word processing, as implemented via automatic typing equipment, can be summarized as follows:



Royal 7000

- increased office efficiency resulting in improved secretarial support for all executives and/or word originators;
  - higher quality typed output based upon more advanced equipment;
  - higher utilization of installed office machines;
  - improved human resource utilization with better control and supervision of secretarial personnel through a word processing center; and
  - greater career opportunities for secretaries and clerical personnel.
- In particular, improved productivity is obtained by:
- reduced retyping time for error-free hard copy;
  - facilitation of document revision/change;
  - faster output speeds (from 1 to 120 pages per minute depending upon the output device);
  - reduction in amount of proofreading required;
  - leveling of peaks and valleys in an otherwise unpredictable workload when dictation equipment is used; and
  - elimination of the retyping step for photocomposition input (when required).

As a consequence of these benefits, it has generally been found that a considerable cost savings is possible. Secretarial clerical payrolls are reduced through gradual attrition even though remaining personnel will be paid somewhat more based upon their higher productivity.

For example, a secretary spending most of the day typing with an electric typewriter can produce about 50,000 lines of typing per year. A correspondence secretary using an automatic typing system can produce 150,000 or more lines per year. Industry estimates and recent studies showing four-fold increases in output productivity are not unusual; improvements of up to five times greater typing productivity per secretary have been obtained for complex text edit applications where many revisions must be made to lengthy documents. Furthermore, automatic typing systems tend to bring effective production within reach of even mediocre typists, although high-speed typists can push the system to its optimum by shortening the input cycle time for original keyboard entry.

Typed output for single-copy, error-free original correspondence (assuming a typical letter length of about 150 words) tends to be the area where the smallest productivity improvement is experienced — typically on the order of a less than two-fold increase. Where multiple originals are required, the productivity tends to increase

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dramatically. On the whole the chances of getting a significant improvement in productivity are great, with up to 85% of current word processing users reporting that their systems are cost effective and that they are pleased with the results.

### TRADEOFFS

Consider the example of a medium-sized office with a balanced workload of correspondence typing, text editing, and repetitive typing — typewriters used on a regular basis throughout the day. The output is assumed to be 150,000 typed lines per year from three secretary/typists. The salary of each secretary is \$150 per week, amounting to a total labor expenditure of about \$23,000. Adding one-time typewriter equipment costs brings the total to about \$25,000.

A single secretary/typist with an automatic typing system will equal the output of a conventional three-secretary office. However, another secretary must be included to handle non-typing administrative duties. Total labor expenditures thus are about \$16,000. Adding automatic typing equipment costs gives a total of \$24,000. Thus, first year savings obtained with an automatic system amount to \$1,000 plus decreased employee benefit, overhead and training costs.

During subsequent years (following full payout of the equipment) the cost in the above example for the automatic system would be about \$5,000 per year less than that of the conventional system—based on salary differences only. This represents about a one-third decrease in office typing expense by virtue of using word processing equipment and specialization of function. The results illustrated will vary depending upon specific customer conditions, including daily hours of system utilization, extent of text editing (revision) versus

repetitive typing, length of individual documents, etc. As the mix of jobs shifts away from short one-time non-complex letters toward either heavier text editing or repetitive typing, the advantage moves more towards word processors, since the higher speeds and intelligence of the automatic systems can be employed to full advantage.

Note that the example shows how full amortization of the equipment can well occur within the first year. Also note that word processing systems have remarkably good resale/trade-in value.

Another example of relative cost tradeoffs can be found by the comparison of the cost-per-page for material typed on electric typewriters versus that produced using word processors. Costs are about one-third less per page for automatic systems. Current studies indicate that typical (1-page) non-automatic letter production costs range from \$3.25 to \$5.25 each. Thus, direct savings on correspondence typing of from \$1 to more than \$1.50 per letter can be realized, depending upon the dictator's salary and other associated overhead costs.

Other tradeoffs between automatic versus standard electric typewriters include the advantages of having output products (neat, error free originals or machine-readable media) that integrate well into other office operations. In the flow of office paperwork, another tradeoff can be lower consumable paper costs, particularly for the newer automatic typewriters using visual displays — either cathode ray tube (CRT's) or gas plasma displays (GASP's). Such displays allow the entire document to be viewed in full-page format before transfer or printout onto paper. This reduces "paper mill" effects for intermediate or rough copy outputs.



CPT Disktype 8000

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The Axix System 90 Electronic Office is a prime example of a multi-function integrated work system. It incorporates word processing, electronic mail, and administrative support functions, and fits into the traditional office environment where the principal-to-secretary relationship holds firm.

- ▷ For those systems with point-to-point communications interfaces, a whole new set of trade-offs can be made by comparing telephone transmission line costs with postage charges and the time value of immediate (hard copy) message transfer.

### FUTURE OUTLOOK

Word processing systems have evolved tremendously over the past fifteen years, and will continue to do so. One of the primary goals behind word processing and all aspects of business automation is to increase efficiency and productivity within an organization. What is actually happening is that these goals are being met through the implementation of automated devices which emulate electronically functions that have traditionally been manually performed. Conceptually, then, the outlook for word processing systems will include:

- **Multi-Function Integration** — Given that word processing is but one function of the office, future systems will include the incorporation of word processing with other office business functions. Indeed, it will no longer be necessary to separate word processing typing personnel from administrative support personnel. While this is still a viable concept in many instances, what is actually happening is that organizational changes are taking place because of the limitations imposed by what a system is capable of doing. Systems which incorporate an integration of

functions do just the opposite, they are tailored to automated business as it is done without the interruption of existing organizational patterns. Integrated functions will include one or more of the following: administrative support, calendaring, electronic filing, electronic information distribution, data processing, personal computing, and specialized applications within a particular organization.

- **From Standalone to Shared System** — Directly connected to the idea of multi-function is the shared system concept. Word processors had their beginnings as separate standalone devices which served to automate a particular business function, that of the typing activity. Although the automation of standalone devices still is desirable over non-automation in small businesses and special applications, there is an increasing trend toward systems which permit the sharing of peripheral devices, and information contained in a database, or other files. Again, automated systems present an electronic means of doing work, and as such should emulate the manner in which work is actually performed. Rarely is a business activity performed in total isolation; rather it is the interaction of many activities with many types of information taken into account. Information (and auxiliary support devices) then, should be made as accessible electronically as it is manually. Recently, word processing vendors such as CPT, Lanier, Lexitron, and Xerox, whose main thrust in the word processing marketplace has been in the standalone area now offer shared systems; as such they compete directly with vendors of traditional shared logic systems for a quite lucrative market, and it will only be a matter of time before others will follow.

- **Communications and Electronic Mail** — Communications capability is becoming a standard offering for word processing systems, and will be the link which ties otherwise discreet system components together. Electronic mail is a specialized communications function that permits messages and administrative functions to be sent performed. Electronic mail systems emulate electronically the manner in which mail is manually created and distributed.

From a hardware point of view, the outlook for the next few years will see:

- More display-based systems;
- A continuing shift to random access storage media;
- larger capacity storage media in the form of double sided and dual density diskettes or a combination of both, 8-inch Winchester disk media, and large capacity hard disks;
- a move from hardwired to software programmable systems. Software programmable systems permit the word processing vendor to update and enhance soft-

## Word Processing Systems

- ▷ ware features of the word processor by providing timely program updates and application packages;
- an increase in user programmability

Finally, the near future should see a cost features improvement as the cost of word processing equipment continues to decrease in proportion to what systems will be capable of doing. New training and support methods are being implemented because as the cost of word processing equipment goes down it becomes less profitable for the word processor supplier to maintain costly sales and support personnel. Several suppliers are now determining the feasibility of equipment distribution via retail outlets, and a few actually have such a distribution scheme in the works. In the area of training, less emphasis will be placed on MSR support; a great deal of word processing system training is now being implemented through the use of self-paced learning packages. MSR support will continue to be available, but at a charge and with the role of the MSR changing somewhat to that of a word processing systems analyst.

### PLANNING CONSIDERATIONS

Before rushing on to the equipment comparison charts and selecting a typing system, it will be wise for the potential user to examine current operations. Emphasis should be placed upon typing and dictation activities for the purpose of evaluating and documenting:

- The nature and volume of present typing operations (extent of editing, multiple original generation, form letter preparation, etc.).

- The people engaged in typing and dictation activities.
- The ratio of secretarial time spent on typing dictation functions versus administrative, non-typing activities.

Personal interviews with secretaries and the originators of documents to be typed, along with typing activity time logs should provide the raw data for the evaluation.

Rough typing volume guidelines would be to consider automatic typing systems when loads reach 100,000 line-per-year levels, or when labor costs directly related to typing reach the \$5,000 to \$10,000 level, as another low-end guideline.

Based upon these preliminary findings and with consideration for short-to-long term growth and expansion, a recommendation should be made to top management regarding the decision to commit to office typing automation. The chances for ultimate success rest largely on the initial commitment from top management to utilize word processing, and the personnel and procedures selected to implement their commitment. At one time, word processing meant the implementation of total word processing, throughout the company, in one or a series of word processing centers. This unilateral approach is no longer considered appropriate; generally the procedure is to look at office organizations and personnel, and select from a number of alternative models the one best suited to a particular environment. This could be the centralized word processing center, with a complete divorce between correspondence and administrative tasks. It is more likely, these days, that the appropriate choice will recognize some need for organization by department or function, and the requirement to achieve added flexibility by having some



Wordplex/7



## Word Processing Systems



Radio Shack TRS-80 Model II with line printer and disk drive.

▷ secretaries who combine administrative and correspondence tasks, doing now one and then the other. The need for some executives to retain a personal secretary can also be recognized in this, more flexible and forgiving environment.

The best way to implement a word processing decision in a firm of any size is on a function by function or department by department basis. The first department to try word processing should be selected not only on the basis of the volume and nature of their workload, but also on the basis of attitudes toward word processing. It is vital to the future success of word processing within a company that the first installation be manned by enthusiastic personnel who will look on initial problems as interesting challenges, and who will insure that the company's first try is a real success. The limited size and scope of the first installation allows the firm to develop good cost performance data for subsequent comparison studies, and

will also permit training personnel without disrupting the entire organization.

After the initial examination of non-automated activity has taken place and an area within the company has been selected for pilot application, selection of appropriate equipment can be made. It should be noted that some degree of re-organization for the secretarial function into typing (correspondence) versus non-typing (administrative) functions might be required; to some extent reorganization will be influenced by the specific nature and capabilities of the equipment selected.

Based upon the specific nature of the typing work, the activity level of the word originators (dictators), and the historical job stability of the secretarial personnel, a good initial feel for the complexity of the system to be selected can be obtained. For instance, if personnel turnover is high, the average skill levels are low and the typing requirements are simple, it makes little sense to install a complex minicomputer-based system that requires extensive operator training. Further, the user should limit his initial cash investment in new equipment to a minimum since the first systems acquired may not work out satisfactorily.

One good way to start out is the use of a time-sharing service which will generally provide the lowest possible entry costs while giving the operators a feel for the capabilities of automatic typing. In any event, the user should make an effort during the first year to remain flexible. The best way to do this is to rent equipment. Even if the complete pilot program is a success, subsequent automation of other company areas can well call for a centralized in-house system.

After determining via the comparison charts (which make up the second half of this report) what word processing systems or services are best suited to the application, the ▷

## Word Processing Systems

### THE TABLES

The tabulations that follow present the features and characteristics of standalone and shared logic systems marketed by 50-odd vendors. For reader convenience, a full listing of these vendors or manufacturers, together with their headquarter addresses and telephone numbers is presented as a preface before the table entries.

The tabulations have been divided into two sections, relating to categories of word processing equipment. These categories are:

- **Standalone Word Processing Systems** — word processing "mag" keyboard or typewriter systems used for repetitive typing and text editing, standalone video display systems, configured with a display screen (usually CRT) and frequently including more sophisticated editing features than regular "mag" keyboard standalones, and personal computers utilized as standalone word processors.
- **Multi-Terminal Word Processing Systems** — multi-terminal (station, keyboard, etc.) systems where each terminal shares the word processing logic and power of a central minicomputer, as well as storage and peripherals. Included in this category are distributed logic systems which share peripherals and sometimes storage, but where computing power (logic) is dispersed among the individual stations or systems modules.

Charts for both categories of equipment are identical, except for the block of information headed "System Configuration."

**Company and Model** identifies the vendor manufacturer, and the specific word processing system.

For Standalone Word Processing Systems, **Configuration** discusses the individual components (keyboard, display, printer, storage) of the system. **Memory Size** shows the size of the system's internal memory. ▷

▷ potential user should then ascertain the quantity and quality of local support offered — perhaps the most significant factor in any evaluation.

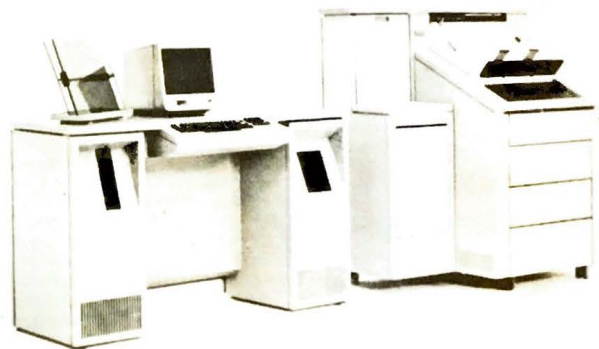
Vendor support, particularly at this stage in the development of the word processing industry, is extremely important. Except for IBM, Xerox, and a few other large firms, the predominant nature of the word processing industry is for the manufacturer to sell through dealers and or franchise agents. In most cases these dealers and agents are separate business entities who purchase equipment from the manufacturer for resale. Under these conditions, the reputation and soundness of the dealer is as important as that of the manufacturer. Often the need for careful appraisal can be even greater if the independent dealer arranges third-party lease financing. This effectively means that the user has purchased the system, and might be in sad shape if either the dealer or manufacturer refuses to back up the system with proper support. By careful checking with other users in his local area, and by adding self-protective clauses to the standard lease contract, the user can generally obtain a high degree of assurance that his interests will be protected.

Note that where the I/O typewriter is a Selectric-based unit, the vendor arranges service directly from IBM. Such service will be for the typewriter as a typewriter and not as a word processing system. Overall word processing system responsibility remains the problem of the vendor.

After the pilot installation has been running and initial problems solved, the cost performance of the operation should be studied and compared against non-automated segments of the business. Only when performance is improved and costs reduced should the program be expanded. A good ball park figure for management to shoot for is an overall typing cost savings of about one-third. This figure is achievable within a year, and can be expected to improve with time as more cost effective equipment is introduced and as personnel became familiar with equipment and procedures.



Olivetti TES 701



IBM Office System 6/450

### Word Processing Systems



NBI System 3000

▷ **Storage Medium** may be magnetic cards, tape, diskette, disk, and/or internal memory.

Magnetic card systems use an oxide coated mylar film cut to the same dimensions as the standard 3/4 by 7 3/8-inch punched paper card. Each magnetic card is normally associated with a separate typewritten page, but some systems can store more than one page per card.

Magnetic tape can be either the standard Philips-type cassette or any of a variety of tape cartridges. These cartridges range from IBM's 16-mm (5/8-inch) sprocketed tape, to cassette, to Olivetti's 1-inch wide 14-track endless-loop cartridge. In all cases, the length of tape, data storage capacity, and cost of the tape must be considered carefully to determine true comparisons of cost-per-character for text storage. For some systems (usually those that are minicomputer-based) industry-compatible 1/2-inch open reel magnetic tape is also available.



Vydec 1400

Continuously rotating magnetic disks or diskettes (floppy disks) can be used to provide rapid direct access storage for text on minicomputer-based (or sophisticated hard-wired) systems.

**Storage Capacity** describes the total amount of text which may be accessed by the system without changing media. A magnetic card system has about 5,000 to 10,000 characters "on-line." A magnetic tape would hold about 25 to 60 or more pages. Floppy disks hold from 250,000 to 1 million characters depending upon whether text is recorded in single or dual density onto one or both sides of the diskette; likewise, mini-floppy diskettes hold approximately 70,000 to 300,000 characters depending upon how text is recorded. Hard disks can hold enormous quantities of text data, typically ranging from about 10 million to 80 million (or more) characters on each disk. Some word processing vendors have also begun to offer 8-inch Winchester rigid disk drives for text storage. These disk drives offer all the advantages of rigid disks in a cost-effective manner for the standalone or small-cluster user and accommodate about the same space as the 8-inch floppy disk drive. 8-inch Winchester drives are capable of holding from about 5 million to 20 million characters.

For Shared-Logic Word Processing Systems, **System Configuration** includes **System CPU/Controller**, a description of the processor which is the brain of the system (frequently an off-the-shelf minicomputer); **CPU/Controller Memory** indicates the memory size.

**System Storage Media** is generally diskette or disc, as described above, and includes the number of disc or diskette drives which the system may employ. **Storage capacity** describes the total amount of on-line storage per unit of media.

**File Organization** describes the manner in which files (text segments of paragraph, page, document, or other length) are arranged on the storage media.

**Number of Keystations Supported and Number of Printers Supported** describes the maximum size to which the listed system can "grow." In some cases, the maximum size applies to the entire systems, both keystations and printers; in other cases, there are individual limits.

The remainder of the table entries apply to both Standalone and Shared Logic systems.

**Display Station Features** include 20 parameters describing display function. **Screen Size and Type** lists the physical dimensions of the video display and the variety of display employed. Most displays used in word processing are CRT's (cathode ray tubes, like a television set); a few systems utilize a gas plasma display or an LED (light emitting diode). The video display is intended to ease the job of accessing, managing, and editing text. Gas plasma displays are generally more costly than CRT's but offer sharper character definition. LED's are less flexible and generally have limited vocabularies. ▷

### Word Processing Systems

▷ **The Display Buffer Memory** is the size of the buffer which holds the characters displayed on the screen; this number may be larger than the number of characters actually displayed, to allow a partial-page screen to scroll through a page or more.

The screen **Format and Capacity** is the number of characters per line, number of lines displayed, and total capacity (in characters) of the screen. If the screen can also display in another format (such as wide lines), this screen format and capacity will be listed in a second line.

**Character Generation** describes the technique used by the display to create characters on the screen. If the technology employed is Dot Matrix (and it usually is), the size of the matrix is shown.

**Cursor Positioning** describes the motion of the cursor (a lighted position indicator, indicated by a blinking underline or a reversed character). Most systems employ a series of arrows for up, down, left, and right movement. Many systems use a Home key to position the cursor at the upper-left corner of the screen. A few systems also offer a Reverse Home to move the cursor to the lower-right corner of the screen. Some systems use code key plus alphanumeric or function keys for cursor movement.

**Vertical Scrolling** is the ability of the system to move vertically, a line at a time, up and down through a page or more of text. It allows text which will not fit on the display to be accessed for review or editing. Many systems have a display buffer (memory area) larger than the display; e.g., the screen might be 66 lines, while the display buffer holds (and may vertically scroll through) 99 lines.

**Horizontal Scrolling** is the ability of the system to move horizontally, along a line of text, to access more characters than may be shown on the screen at one time. Several methods may be used. The system can move horizontally, one character at a time, or it may display the text in left, center, and right segments, etc. Some systems display wide lines by condensing character size, so that a larger number of characters may be displayed.

**Page Scrolling** permits the system to "flip" through the pages of a document, usually in both forward and backward directions, to access all the text of a multi-page document.

**Display Highlighting** intensifies or blinks certain portions of the screen—either the characters themselves or the screen area behind the characters—to emphasize a text segment designated for some system activity such as delete or move.

Some display screens allow the operator to utilize **Character Size Control** to choose between a full-page of text at regular character size and one-half page at double (vertical) size. A few systems also allow the operator to view a double horizontal page (for wide-page work, such as tabular reports) at half-character size.

A few systems show **Character Pitch** (10-pitch or 12-pitch characters) or **Character Spacing** (proportional spacing).  
OCTOBER 1980



Olivetti TES 401

ing), this means the line on the screen can be identical to the line to be printed. Most systems also show **Line Spacing** (typically 1, 1 1/2 or 2 spaces) on the display.

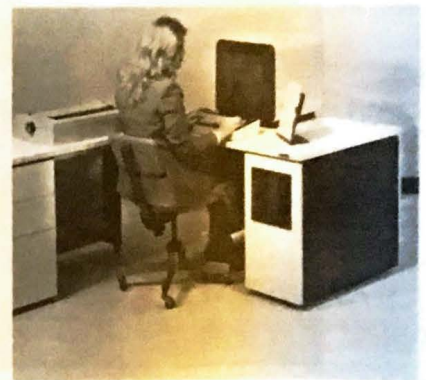
**Line Justify Display** allows the video display to show line justification (even right-hand margin). Most display screens show this via interword spacing (extra "white" space between words). A few displays have a proportionally spaced character set, and can display justified lines of proportionally spaced characters, with justification occurring via intercharacter spacing.

Systems which show **Underscore Display** allow underscored characters to be displayed, or display codes to indicate that the material between the codes will be underscored on printout.

**Sub/Superscript Display** systems permit characters to be displayed above and/or below the line, or display codes to indicate that the material between the codes will be sub- or superscripted on printout.

Systems with **Multi-Column Page Display** have the ability to display text or numerics in multiple columns. The system may also have the ability to edit by vertical column.

**Stored Form Recall/Display** allows the system to store a form (such as text, lines, or a combination of both) and ▷



AM Jacquard J-425

## Word Processing Systems

▷ display it, permitting the operator to combine the form with keyboarded text. The system may also be able to store the form with text or to store form and text separately.

Some systems permit **Control Code Display**, showing instructions, commands, or codes on the video screen. In some systems, the operator may choose between displaying text with codes, or text only, as it will appear on printout.

**Format Statement Display** allows the operator to embed format information within text. The format statement may include such parameters as margin and tab settings, decimal tab settings, centering instructions, paragraph indentations, line spacing, pitch size, etc. Some systems have an automatic format which is used whenever the operator fails to specify a format. Some systems allow only one format per document or per page. Other systems allow the operator to change formats (and automatically call up various formats), as desired. Some systems employ a format Menu instead of a format statement for the document. This is generally stored separately and displayed separately from the document itself.

The **Printer Stations Features** section of the tables lists twelve printer parameters. There are a variety of **Printers Types** used for word processing output (and also for input on non-video display systems), but the most commonly used printers are the Selectric typewriter and the Qume or Diablo daisy wheel printer. The largest number of installed word processors (IBM Mag Card series) continue to employ the Selectric typewriter, either ordinary, off-the-shelf models, or the heavier duty model intended for use in word processors, such specially engineered units offer more durability and reliability; experience has proved that

automatic typing systems attached to standard (non-heavy duty) typewriters are best employed where large volumes of output (generally 150 wpm) will not occur.

The vast majority of non-IBM equipment (as well as IBM Qume-based systems) employ the daisy wheel print mechanism which offer higher output speeds (30 to 55 characters per second) and a variety of type styles. A few vendors also offer non-impact printers for correspondence quality word processing output. Two non-impact technologies are currently offered: ink jet and electrostatic.

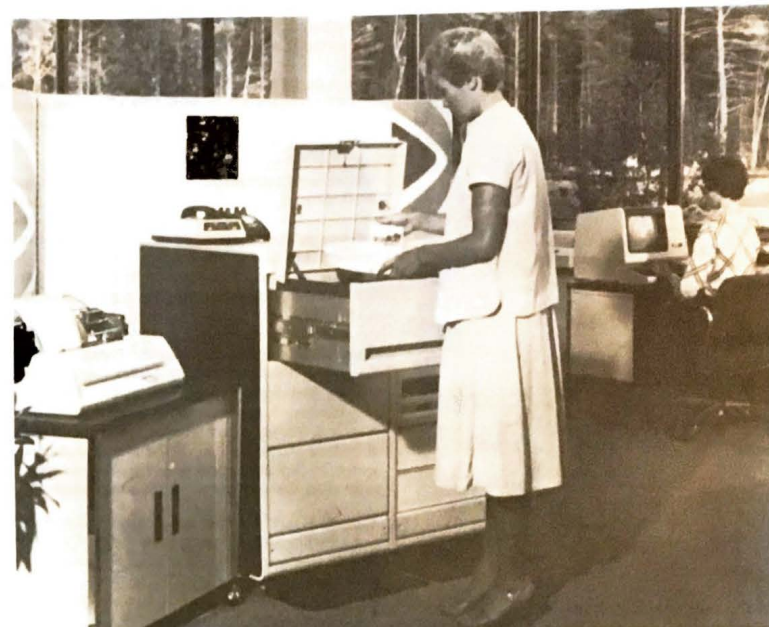
In 1976, IBM introduced an ink jet printer, available as both a standalone adjunct to IBM and IBM-compatible mag card word processing systems and as the output mechanism for the IBM Office Systems 6 series. This printer spits a stream of tiny, electrostatically charged ink drops at the page, as its head moves across the paper; print speeds range from 77 to 92 cps for correspondence quality output (to 184 cps for draft quality output) and offers a variety of formats, type styles, and type sizes. Unique to this system is the ability to automatically access a choice of two types of paper plus envelopes.

In December 1978, Wang Laboratories introduced the intelligent Image Printer, the first device in the office products industry to marry an electrostatic, plain paper copier to a word processor for use as a high speed printer. The Image Printer was developed upon concepts purchased from Coburn Technology. A Konishiroku copier (identical to the Royal Bond Copier-IV) is combined with appropriate electronics and optionally joined to the Wang Office Information Systems for use as an output device. As such, the speed of the Image Printer is 18 pages ▷



Burroughs R11

## Word Processing Systems



Digital Equipment (DEC) WS 200

▷ per minute, quite a bit faster than both Selectric (about 2½ minutes per page) and daisy wheel (about 1 minute per page) technologies. The Image Printer offers the user output onto 8½" by 11" or 8½" by 14" paper in 16- to 32-lb. bond stocks. The printer is equipped with two 300-sheet trays, and can index paper in four ways: all from one tray, all from the other tray; alternate trays; or first sheet, first tray, subsequent sheets, second tray for multi-page letter applications. The Image Printer can permit two different fonts on a single page, selected from six available fonts. The unit generates multi-page documents sequentially by set, a process that allows multiple sets to be automatically collated upon output.

IBM also introduced an electrostatic-based non-impact printer in February of 1979. This product, the 6670 Information Distributor, is not just a word processing printer, however, but a multi-function device that acts as a text processor, a communications device, and a convenience copier. Truly an "office of the future" type of product, the 6670 extends the life of the IBM's mag card word processors while providing a common link for data and word processing output. The printing device of the 6670 is similar to that of a plain paper copier except that the light source used to expose the photoconductor is a low-powered, helium neon laser. The speed of the 6670

is 36 pages per minute; the unit also offers a wide range of formatting and type style options.

Many word processing vendors also offer line printers, as the main system printer or an optional peripheral.

Some Printers have **Buffer Memory** offering a storage space for text between keyboard and printer.

**Character Pitch/Spacing** determine the appearance of final output. Most word processors offer 10 or 12 pitch (10 or 12 characters per inch) output, often both. Element printers (e.g., the Selectric and the daisy) offer a number of type styles as well. Some word processors also offer proportionally spaced printing fonts.

**Writing Line Width and Carriage Paper Width** limit the number of character printed on a horizontal line and the width of the paper. Maximum writing line width is usually two inches less than physical paper width.

**First Line Forms Advance** allows a system fitted with a forms feeding device to automatically advance to the top (first line) of the next form at the completion of a document. This avoids the need to record keystrokes for multiple line advances.

### Word Processing Systems



3M System 84 Information Processor

▷ **End-of-Page Stop** halts the printer at the end of a page for manual paper handling or font change.

**Justified Printout** permits the printer to produce output with an even right-hand margin. This may be achieved by interword spacing (leaving extra white space between words), or, with more sophisticated devices, via inter-character spacing, which provides output with a more print-like appearance, especially when a proportionally spaced font is employed.

**Sub Superscript Printout** allows characters to be printed one-half space (occasionally one-fourth or one-third)



Burroughs R III

above or below the typed line, allowing footnotes, chemical formulas and the like to be automatically printed.

**Non-Adjust Printout** permits the system to be instructed that a text section is to be output "as is," without margin or line length adjustment. It is used to protect tables and short lines such as addresses.

**Bidirectional Printout** permits the system to print line one from left to right and line two from right to left, saving a little time by avoiding unnecessary carriage (or element) movement. A few systems which employ bidirectional printing will also check for the closest margin before deciding to print a line left-to-right or right-to-left; this can save a few seconds in printing immediately following a very short line.

**Simultaneous Printout** allows the system to print one document simultaneously while recording new text or revising previously recorded text. Some systems accept only one page or one document at a time for simultaneous (also called background) printing; others allow a queue of documents to be created. If the system creates a print queue, it may printout on a first-in, first-out basis, or it may allow the operator to make priority assignments.

**General Functional Features** includes nine system functions. **Media-Stored Format** is the ability of the system to allow format information (such as tab and margin settings, paragraph indentations, etc.) to be stored on magnetic media with the text, and to be used to format text on the display and/or during printout.

**A Default Format Statement** is information on margin settings, tabs, etc., stored for automatic implementation whenever the operator fails to designate a specific format statement.

A system which allows **Stored Multiple Formats** can store more than one format and access the desired format on operator command. Some systems have a formal routine for this operation; other systems do not, but can allow the operator to store a format statement on a special segment(s) of media and access it at will.

**Machine Dialog/Menu Prompt** is a system feature that allows the operator to enter into a dialog or conversation with the word processor, so that operator actions are called for by the system in a question-answer mode. This type of dialog can be particularly useful in training new operators, or in helping part-time operators through a job. Some video systems offer Menus which list operator options at each step in the wp process.

**Forms Input** allows the system to space automatically from field to field, with a carrier return or other single action, in filling in a prerecorded form. A few systems define fields as all numeric or all alphabetic, and reject incorrect entries.

**Control Character Printout** is the ability of the system to provide a printout showing all normally concealed control characters (required carriage returns, indent commands, ▷

### Word Processing Systems

▷ etc.); line numbers may also be shown on such a draft printout.

**Printout Queuing** allows a number of documents to be lined up for subsequent printout while the operator goes on to perform other tasks. Such printout queuing may allow only one page or one document at a time to be queued, or be very sophisticated, with multiple print queues for each printer, and large documents or multiple documents permitted in the queue. Some systems also allow documents to be deleted from the queue and/or priority documents to be inserted ahead of their normal turn.

**Revision and Status Reporting** is a feature of some of the more sophisticated systems (generally display-based standalones and shared logic systems) allowing the system to automatically create an index, listing the documents stored on a tape, diskette, or disk. In some cases, the index may be used as a status report, and may show such entries as the date on which the document was created, the last date on which the document was accessed and/or revised, the number of revision accesses which have occurred, and so forth. Some systems can sort indexes by Author, Department, Operator, etc., before printing a status report.

A few systems provide some form of **System Security**, sometimes in the form of a key lock, generally in place of the on/off switch, to prevent unauthorized access to the word processing system. A few of the more sophisticated systems require the keying of a confidential password before the system itself, or specific documents, are available for access or revision.

**Twelve Text Input Features** describe some of the techniques used by the operator in entering text on the word processor.

A system with **Auto Carrier Return** automatically performs a carrier return when the last word which will fit onto the line is typed. The system generally has a buffer to hold the word currently being typed, until it judges whether to place the word on the current line, or wrap it onto the next line. Systems which automatically perform carrier returns are speedier on input, since the typist may type text at a uniform speed without pausing at each line end for a return.

With **Auto Word Wraparound** the system automatically places a word which does not fit onto the line being typed onto the next line. Frequently combined with the Auto Carrier Return feature. Also used to denote systems which can wrap words during margin adjust procedures.

**Auto Margin Adjust** allows the system to perform margin changes either by automatically changing line endings without further intervention, or by allowing the operator to effect changes with a multi-step process (by line, by paragraph, etc.) During margin adjust procedures, temporary hyphens are normally dropped (unless they occur at

the end of a line), and the system may give the operator an opportunity to make new hyphenation decisions to afford a "tight" line.

With **Temporary Margins**, the system has the ability to set a second, different margin for such purposes as an indented paragraph or quotation.

**Auto Decimal Tab** allows the system to automatically align columns of decimal figures on the decimal point. The typist can type numbers without regard for alignment, with the system performing the aligning chore.

**Hyphenation** describes the method the system uses to perform hyphenations. Options generally include manual hyphenation (operator picks hyphen position); Hot Zone (a space immediately to the left of the right hand margin, is defined and any word which will not fit on this line must be hyphenated within the Hot Zone) and; Scan (operator can go through material, with system stopping at any place where a hyphenation decision is required). Some systems perform no hyphenations, but wrap any word which will not fit entirely on one line to the next line (generally, the operator can override this wrapping and perform a manual hyphenation to maintain tight lines). More sophisticated systems may use an algorithm (formula) to make hyphenation decisions, or may store a dictionary of hyphenations and make hyphenations automatically.

**Auto Input Underline** allows the operator to indicate the beginning and end of an underline, rather than backspacing and underlining on a character-by-character basis. Some systems allow the operator to choose between underlining words only, or underlining spaces and words. A few use code that will underline the previous or next word, line, or other text segment.

**Auto Centering** is the ability of the system to automatically center a word or text segment. This is usually implemented by a keystroke(s) that instructs the system to center the previous or next text segment. Text is usually centered between margins, but some systems center about ▷



Lexitron Videotype 1000

## Word Processing Systems



Wang OIS 130

addresses to create a number of nearly identical documents.

**Search Capability** describes the method by which the system searches for an editing point. Unsophisticated systems usually search by document, page, or paragraph number (reference code), or by line number. More sophisticated systems can also search by character string, for the first unique occurrence of some maximum number of characters.

**Delete Capability** lists the grammatical segments of text which may be identified and deleted. C is Character, W is Word, L is Line, S is Sentence, P is Paragraph and Page is spelled out.

**Global Search and Replace** is a routine which many systems can employ to search for repeated occurrences of a character string (typically up to 32, 64 or 128 characters long). In some instances, the system can automatically replace all occurrences of one character string with another character string. In other cases, the system merely locates the string for operator selected deletion or replacement. A few high-powered systems can apply logical considerations to making the replacement.

**Block Move/Copy** is the ability of the system to designate a block of text (generally with some maximum number of characters, related to buffer size) and to move it within the document or to another document. Most systems which can access and move blocks of text can also copy blocks to another storage location (for editing) without erasing the original text.

**Column Move/Delete** is used to denote whether a system can manipulate characters vertically, within a column. This feature is very important for tabular work, since a column can be moved or deleted with a minimum number of commands. In less sophisticated systems, columns must be moved or deleted a line segment at a time, in multiple steps.

**Auto Repagination** is a routine employed by some systems to automatically change page endings if text is inserted or deleted within a document, or if a new page length is desired. Text will be removed from or added to pages, as required, to maintain page length.

**Auto Widow Adjust** is related to the Auto Repagination routines and describes the ability of the system to prevent the first line of a paragraph, or a title or heading from being the last line on a page. Such a feature is especially desirable if the system paginates or repaginates automatically.

**Auto File Sort** is the ability of the system to perform sorts on files, arranging them in alphabetical, numerical or other order. This feature is very important on systems that sort or manipulate address lists; such changes need not be performed in alphabetical order. ▸

▸ a designated point. Also, some systems can center between tab settings, for centering column headings for tabular matter.

**Auto Line Spacing** allows word processing systems to permit different line spacings (single, double, triple, etc.) without performing physical setting changes on the printer. This enables the typist to input text with combinations of spacing without stopping and resetting the printer during playback printout.

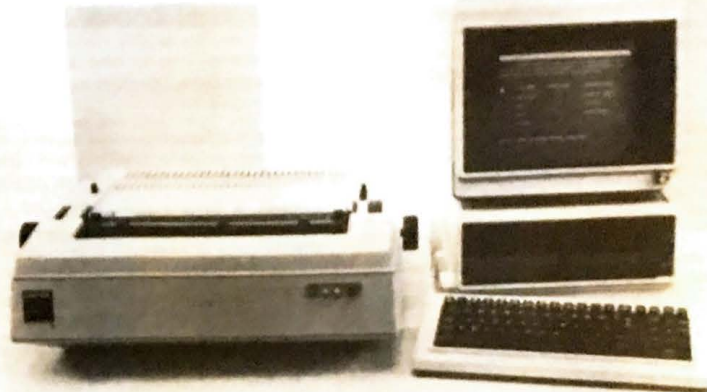
**Auto Page Numbering** is a feature of some sophisticated word processing systems (some video display standalones or shared logic systems) enabling the system to automatically generate page numbers within documents. When text is rearranged and page numbers change, the system can generate a new set of correct page numbers. This feature enables the operator to input text without regard to final page endings. The system will create pages of the desired length, and number them appropriately.

**Auto Headers/Footers** describes the ability of a system to place header/footer text at the top or bottom of each page of a multi-page document. The operator specifies the text once and the header/footer (usually document title, company name or confidentiality requirements) is automatically added during printout. Changes may be made on the main document text without affecting the headers and footers.

**Auto Pagnation** permits the word processing system to take a multi-page document and divide it into pages of a requested length (in numbers of lines). Often, such ability is joined with the capability to automatically generate page numbers.

**Under Text Edit & Merge Features** twelve ways of manipulating and accessing text are described. **Document Assembly/Merge** is a description of the way in which the system can assemble new documents from previously recorded text. Most systems can combine prerecorded text with keyboarded text. Many systems can combine selections from prerecorded text to form a new document. This heading also describes the system's ability to join a document to such variable information as names and

## Word Processing Systems



Syntex Aquarius workstation.

▸ **Auto File Select** permits the system to make selections from data files, based on the characters which appear in a certain data field. For instance, using a zip code field, the system can select all the addresses with a 19101 zip code for forwarding one letter, and then send a different letter to zip code 19104.

Systems with **Auto Footnote Tie-In** allow footnotes to be tied to the appropriate text segment. If text segment is moved to another page or document, the footnote will travel with it. Generally, systems which are sufficiently sophisticated to offer footnote tie-in also automatically handle the division of space between the main text and footnotes.

**A Term Dictionary/Glossary** permits the system to store technical vocabulary or frequently used phrases (such as the corporate address, signature blocks, etc.) and retrieve them with a significantly smaller number of alphanumeric characters (usually two). This feature can greatly speed text entry with legal, medical, engineering and other applications with complex vocabulary or lots of boilerplate phrases. On systems which do not have this feature, but which do have a global search and replacement routine, it is possible to designate any single word or phrase with an "impossible" combination (say "qx") and then replace the combination throughout the document before storage or printout.

**Communications** discusses the **Availability** of a communications function (generally optional) and the **Format and Speeds** provided. Most word processors speak in different languages, so it is necessary to check this feature if inter-system compatibility will be required. A number of systems now offer a choice of formats and speeds and, in some cases, multiple formats and speeds, switch and keyboard selectable.

**Arithmetic Capability** describes the ability of a word processing system to also be used as a calculator or adding

machine. A number of the more sophisticated systems have the ability to do arithmetic tasks, a smaller number can do such tasks as part of the word processing routines, with totals embedded in text, etc.

**EDP Capability** discusses three parameters which describe the system's abilities to be used for general data processing tasks. **Multiprogramming** describes the ability of the word processing system to simultaneously process different programs, such as file sorting and text editing. Systems with such capabilities can process much larger quantities of material and are therefore, if properly used, more cost efficient.

**Compilers** are special software packages that translate a program language such as FORTRAN, COBOL, BASIC or PL-1 into machine level language. The presence of a compiler in the word processing environment generally means that the system employs a multi-purpose computer and that the manufacturer allows or encourages user programming.

**Applications Software** may be provided by the word processing vendor (or an independent supplier) to allow the user to perform other tasks with his word processing system, without having to write the additional software himself. Systems which offer such software are generally multipurpose computers and may or may not provide user programming capability.

**Peripherals** are devices (such as printers, OCR readers, and communications devices) which may be added to word processing systems as options to extend their capabilities. More sophisticated systems can frequently share a peripheral between multiple stations, making the use of a high-speed printer or other expensive piece of equipment cost-effective.

**Background Information** gives a few useful facts about the word processing system: its **First Delivery Date**. ▸

## Word Processing Systems

▷ **Country of Manufacture** (most systems are currently manufactured in the U.S., but manufacture in countries with abundant high technology industry, such as Japan, is likely to be occurring soon), and an **Installed Base Estimate**.

**Pricing and Terms** gives some basic information on the **Purchase** price for each system (where various configurations, e.g. multiple keystations or printers, etc., are available, the configuration priced is noted) as well as **Rental** and **Lease** pricing.

**Maintenance** gives information as to the provider of maintenance (generally the manufacture of the system, but

occasionally a component manufacturer or a third party) and sometimes lists monthly maintenance costs. Where such maintenance costs are listed they generally apply to normal maintenance (preventive and emergency) during normal working hours.

**Warranty and Support** gives information on the length of the warranty period for newly purchased equipment and some information on support training provided to users.

**Remarks & Other Features** is a catch-all category, appearing at the bottom of both pages of each chart. It gives the editor an opportunity to annotate entries and to provide comments and additional information of interest to the reader. □



The Hazeltine Opus 80.

## Word Processing System Vendors

**ACT/Office Automation** — see **Advanced Computer Techniques**

**Advanced Computer Techniques Corp.**  
437 Madison Avenue  
New York, NY 10022 (212) 421-4307

**Adler-Royal Business Machines**  
Division of Litton Industries  
1600 Route 22  
Union, NJ 07083 (201) 964-3200

**AES Data, Ltd.**  
570 McCaffrey Street  
Montreal, Quebec H4T 1N1, Canada (514) 341-5430

**Algorithmics**  
177 Worcester Road  
Wellesley, MA 02181 (617) 237-7226

**AM Jacquard Systems**  
Division of AM International  
3340 Ocean Park Blvd  
Santa Monica, CA 90404 (213) 450-1242

**Applied Computer Systems**  
615 N. Mary Ave  
Sunnyvale, CA 94086 (408) 733-3733

**Artex** — see **Dictaphone Corporation**

**Avionic** — see **Basic Four/Wordstream Division**

**Basic Four Corporation**  
14101 Myford Road  
Ft. Worth, TX 76104 (714) 731-5100

**Burroughs Office Automation Division**  
30 Main Street  
Danbury, CT 06810 (203) 792-6000

**COMPAL, Inc.**  
6300 Varial Avenue  
Suite E  
Woodland Hills, CA 91367 (213) 992-4425

**Comptek Research, Inc.**  
445 Cayuga Road  
Buffalo, NY 14225 (716) 633-2400

**CompuCorp**  
1901 South Bundy Drive  
Los Angeles, CA 90025 (213) 820-2503

**CPT Corporation**  
8100 Mitchell Road  
Minneapolis, MN 55440 (612) 937-8000

**Daconics** — see **Xerox Corporation**

**Data Equipment Inc.**  
238 East Caribbean Drive  
Sunnyvale, CA 94086 (408) 734-5610

**Datapoint Corporation**  
9725 Datapoint Drive  
San Antonio, TX 78284 (512) 699-7000

**Data Processing Design, Inc.**  
181 W. Orangehorpe Ave., Ste. J  
Placentia, CA 92670 (714) 993-4160

**Data Terminals & Communications**  
590 Division Street  
Campbell, CA 95008 (408) 378-1112

**DEC** — see **Digital Equipment Corporation**

**Decision Systems** — see **Marketing Technology**

**A.B. Dick**  
Information Production Division  
2200 Arthur Avenue  
Elk Grove Village, IL 60007 (312) 593-8800

**Dictaphone Corporation**  
120 Old Post Road  
Rye, NY 10580

**Digital Equipment Corporation**  
Word Processing Group  
Continental Boulevard  
Merrimack, NH 03054 (603) 884-5111

**Edit Systems, Inc.**  
23505 Jefferson  
St. Clair Shores, MI 48080 (313) 774-6980

**Exxon** — see **Qyx, Vydec**

**Four-Phase Systems**  
10700 N. DeAnza Blvd.  
Cupertino, CA 95014 (408) 255-0900

**Genesis One** — see **Wordstream**

**Hazeltine Corporation**  
Greenlawn, NY 11740 (516) 261-7000

**IBM**  
Data Processing Division  
1133 Westchester Avenue  
White Plains, NY 10604 (914) 696-1900

**IBM**  
General Systems Division  
875 Johnson Ferry Road N.E.  
Atlanta, GA 30342 (404) 238-2000

**IBM**  
Office Products Division  
Parsons Pond Drive  
Franklin Lakes, NJ 07417 (201) 848-1900

**Interactive Computer Systems**  
312 East 23rd Street  
New York, NY 10010 (212) 677-7222

**Lanier Business Products**  
1700 Chantilly Drive, N.E.  
Atlanta, GA 30324 (404) 329-8000

**Lextron Corporation**  
9600 DeSoto Avenue  
Chatsworth, CA 91311 (213) 882-5040

**Linolex** — see **3M**

**Marketing Technology**  
103 Park Avenue, Suite 414  
New York, NY 10017 (212) 889-1085

**MCM Computers, Inc.** — see **Interactive Computer Systems**

## Word Processing System Vendors

### Megadata Corporation

35 Orville Drive  
Bohemia, NY 11716 (516) 589-6800

### Micom Data Systems Ltd.

447 Saint Helen Street  
Montreal, Quebec H24 2K9 Canada (514) 341-5680

### 3M

3M Center  
St. Paul, MN 55101 (612) 733-1110

### NBI

1695 38th St  
Boulder, CO 80301 (303) 444-5710

### Nixdorf Computer Corporation

168 Middlesex Turnpike  
Burlington, MA 01803 (617) 273-0480

### Norelco/Phillips — see Phillips Business Systems

### Office Communications, Inc. — see Savin

### Olivetti Corporation of America

155 White Plains Road  
Tarrytown, NY 10590 (914) 631-8100

### Olympia USA, Inc.

Box 22  
Somerville, NJ 08876 (201) 722-7000

### Ontel Corporation

250 Crossways Park Drive  
Woodbury, NY 11797 (516) 364-2121

### Q1 Corporation

125 Ricefield Lane  
Hauppauge, NY 11787 (516) 543-7800

### Qualterm Terminals — see Data Equipment, Inc.

### Qyx

329 Gordon Drive  
Lionville, PA 19353 (215) 363-3000

### Radio Shack - see Tandy Corporation

### Redactron Corporation — see Burroughs Office Automation Division

### Rothenberg Information Systems

260 Sheridan Avenue  
Suite 312  
Palo Alto, CA 94306 (415) 324-8850

### Royal Business Machines, Inc.

Division of Litton Industries  
150 New Park Avenue  
Hartford, CT 06106 (203) 523-4881

### Savin Corporation

Columbus Avenue  
Valhalla, NY 10595 (914) 769-9500

### Shasta General Systems

1329 Mollett Park Dr  
Sunnyvale, CA 94086 (408) 734-9360

### Syntax, Inc.

1110 Centennial Ave  
Piscataway, NJ 08854 (201) 457-9200

### Tandy Corporation

One Tandy Center  
Fort Worth, TX 76102 (817) 390-3011

### Telex Terminal Communications

3301 Terminal Drive  
Raleigh, NC 27604 (919) 834-5251

### Universal Microcommunication Systems, Corp.

One World Trade Center, Suite 60083  
New York, NY 10048 (212) 839-0900

### Vector Graphic, Inc.

31364 Via Colinas  
Westlake Village, CA 91361 (213) 991-2302

### Vydec, Inc.

9 Vreeland Road  
Florham Park, NJ 07932 (201) 822-2100

### Wang Laboratories

1 Industrial Avenue  
Lowell, MA 01851 (617) 459-5000

### Willow Associates

Benson East Suite 320-D  
Jenkintown, PA 19046 (215) 886-1520

### Wordplex

31829 West La Tienda Drive  
Westlake Village, CA 91361 (213) 889-4455

### Wordstream — see Basic Four Corporation

### World Information Systems, Incorporated

17501 South Figueroa Street  
Gardena, CA 90248 (213) 532-6730

### Xerox Corporation

Office Systems Division  
1341 West Mockingbird Lane  
Dallas, Texas 75247 (214) 689-6000

### XMark Corporation

3176 Pullman Street, 119  
Costa Mesa, CA 92626 (714) 556-9210

### Zenith Data Systems

1000 Milwaukee Ave  
Glenview, IL 60025 (312) 391-8860C

## Standalone Word Processing Systems

The following tabulations cover the parameters, features and pricing of over one hundred standalone word processing systems currently marketed by forty-four different vendors

The first or even-numbered pages cover System Configuration, Display Station Features; Printer Station Features, General Functional Features, and Text Input Features for each standalone system.

The second or odd-numbered pages continue the coverage of Text Input Features and also detail Text Edit & Merge Features; Communications, Arithmetic Capability, EDP Capability; Peripherals; Background Information; and Pricing & Terms.

**Standalone Word Processing Systems**

	Adler Royal Business Machines	Adler Royal Business Machines	Advanced Computer Techniques <sup>1</sup>	AES Data
SALES	SE 2000	SE 2000/SE 6000	Ultra Text	AES Plus
KEYBOARD	Keyboard/print/diskette unit	Keyboard/print/diskette unit	Keyboard CRT CPU printer	Keyboard CRT diskette separate printer
CHARACTER SET	5,000 characters Single mini diskette	4,000 characters Single mini diskette	Dual diskette	32K up to 65K Dual diskette, extended page optional
FEATURES	65K chars/diskette	65K chars/diskette	720K chars/diskette	60K chars mini disk 32K chars ext disk 14 character CRT 8192 chars
PRINTING	Not Available	1 x 8 1/2 inch/line 4 (65) chars	8 x 11" CRT	24 lines x 80 chars (1920 chars total)
EDITING	Not Available	1 line x 40 characters (60 chars total)	24 x 80 chars (1920 chars total)	(1920 chars total)
FILE MANAGEMENT	Not Available	5 x 11 dot matrix Left/Right	Left/Right/Up/Down None; end of page Standard to 90 lines	Left/Right/Up/Down None; end of page Standard to 264 chars/line
SEARCHING	Not Available	None	Standard	None
REPLACEMENT	Not Available	Standard	Standard	Standard
REVISIONS	Not Available	None	Standard	None
FORMATTING	Not Available	None	Standard	None
MAILING	Not Available	None	Standard	None
REPORTING	Not Available	None	Standard	None
PROGRAMMING	Not Available	Standard	Standard	Standard
PERIPHERALS	Not Available	Standard	Standard	Standard
PRICE	None	None	None	None
WARRANTY	None	None	None	None
ADDITIONAL INFO	None	None	None	None

**Standalone Word Processing Systems**

	Adler Royal Business Machines	Adler Royal Business Machines	Advanced Computer Techniques <sup>1</sup>	AES Data	COMPANY
SALES	SE 2000/SE 6000	SE 2000/SE 6000	Ultra Text	AES Plus	MODEL
KEYBOARD	Standard	Standard	Standard	Standard	TEXT INPUT FEATURES (cont'd)
CHARACTER SET	Standard	Standard	Standard	Standard	Auto Input Underline
FEATURES	Standard	Standard	Standard	Standard	Auto Centering
PRINTING	Standard	Standard	Standard	Standard	Auto Line Spacing
EDITING	Standard	Standard	Standard	Standard	Auto Page Numbering
FILE MANAGEMENT	Standard	Standard	Standard	Standard	Auto Headers/Footers
SEARCHING	Standard	Standard	Standard	Standard	Auto Repagination
REPLACEMENT	Standard	Standard	Standard	Standard	TEXT EDIT & MERGE FEATURES
REVISIONS	Standard	Standard	Standard	Standard	Document Assembly/Merge
FORMATTING	Standard	Standard	Standard	Standard	
MAILING	Standard	Standard	Standard	Standard	
REPORTING	Standard	Standard	Standard	Standard	
PROGRAMMING	Standard	Standard	Standard	Standard	
PERIPHERALS	Standard	Standard	Standard	Standard	
PRICE	None	None	None	None	Search Capability
WARRANTY	None	None	None	None	Delete Capability
ADDITIONAL INFO	None	None	None	None	Global Search & Replace





### Standalone Word Processing Systems

COMPANY	AES Data	Algorithmics, Inc.	AM Jacquard	AM Jacquard
<b>MODEL</b>	AES-100	Algo-2100	J 225	J 425
<b>SYSTEM CONFIGURATION</b>	Keyboard/CRT, control console, diskette console, printer	Keyboard, CRT, diskette console, printer	Typewriter cassette console	Keyboard/CRT, integral desk, printer
<b>Memory Size</b>	32k, up to 48k	48k (expandable)	—	—
<b>Storage Media</b>	Dual 8" diskette	Dual diskette (5 or 8-inch)	Cassette	Dual diskette
<b>Storage Capacity</b>	300K chars./diskette	164K (5"), 250K (8")	120K chars./cassette	256K chars./diskette
<b>DISPLAY STATION FEATURES</b>	14" diagonal CRT 8192 chars 24 lines x 80 chars (1920 chars total) Dot matrix Left, right, up, down, home, end of text	12" diagonal CRT 1920 characters 24 lines x 80 chars (1920 chars total) 7 x 10 user programmable Left, right, up, down, top, bottom	Not Available Not Available Not Available Not Available Not Available	17" diagonal CRT 4320 chars 56 lines x 80 chars (6656 chars total) 7 x 13 dot matrix Left, right, up, down, home, end of text
<b>Vertical Scrolling</b>	Standard to 95 lines	None	Not Available	Standard to 253 char
<b>Horizontal Scrolling</b>	Standard to 128 chars	None	Not Available	Standard
<b>Page Scrolling</b>	None	Standard	Not Available	Standard
<b>Display Highlighting</b>	Flashing	Standard	Not Available	Standard
<b>Character Size Control</b>	None	Optional	Not Available	None
<b>Character Pitch Display</b>	Standard	Codes only	Not Available	Standard
<b>Character Spacing Display</b>	None	Codes only	Not Available	None
<b>Line Spacing Display</b>	Standard	Standard	Not Available	Standard
<b>Line Justify Display</b>	Standard	Standard	Not Available	Standard
<b>Underscore Display</b>	Standard	Standard	Not Available	Standard
<b>Sub-Superscript Display</b>	None	Codes only	Not Available	Standard
<b>Multi-Column Page Display</b>	Standard	—	Not Available	Standard
<b>Stored Form Recall/Display</b>	Standard	Standard	Not Available	Standard
<b>Control Code Display</b>	Standard	Standard	Not Available	Standard
<b>Format Statement Display</b>	Standard	Standard	Not Available	Standard
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Qume daisy 45 cps N. A.	Daisy wheel 45 cps*	IBM Selectric 15.5 cps	Qume daisy 55 cps
<b>Printer Buffer Memory</b>	Variable	1 to 120	10-12	6 to 16
<b>Character Pitch/Spacing</b>	13" and 26" opt	13.2"	13" or 15"	13" and 25.3" opt
<b>Writing Line Width</b>	15" and 28" opt	15"	15.5"	15.5" and 28" opt
<b>Carriage Paper Width</b>	Standard	Standard	None	Standard
<b>First Line Forms Advance</b>	Standard	Standard	Optional*	Standard
<b>End Of-Page Stop</b>	Standard	Standard	None	Standard
<b>Justified Printout</b>	Standard	Standard	None	Standard
<b>Sub-Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	Standard	Standard	None	Standard
<b>Simultaneous Printout</b>	Standard	Optional	None	Standard
<b>GEN FUNCTIONAL FEATURES</b>				
<b>Media-Store Format</b>	Standard	Standard	Optional**	Standard
<b>Default Format Statement</b>	Standard	Standard	None	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	None	Standard
<b>Machine Dialog/Menu Prompt</b>	Prompting cues & error messages, mnemonics	Menus & operator cueing	None	Status lines on display
<b>Forms Input</b>	Standard	Standard	None	Standard
<b>Control Character Printout</b>	Optional	Standard	None	Standard
<b>Printout Queuing</b>	None	Standard, up to 70 documents	None	Standard, prints from display or diskette
<b>Revision &amp; Status Reporting</b>	Optional line count	Standard	Status & error messages	Index shows last document access
<b>System Security</b>	Write protect on diskette	Optional, keylock & password	None	None
<b>TEXT INPUT FEATURES</b>				
<b>Auto Carriage Return</b>	Standard	Standard	None	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	None	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab</b>	Standard	Standard	None	Standard
<b>Hyphenation</b>	Manual	Optional	Manual, 7-char Hot Zone	Stored algorithm—auto-matic or selectable
<b>REMARKS &amp; OTHER FEATURES</b>		*Scientific printer avail with Greek Math, English chars & symbols on single printwheel	*End of page lockout, \$150 **Auto tab set & clear, \$150	

### Standalone Word Processing Systems

AES Data	Algorithmics, Inc.	AM Jacquard	AM Jacquard	COMPANY
AES-100	Algo 2100	J 225	J 425	MODEL
Standard Multiple lines may be centered simultaneously Standard Standard Standard Standard Standard	Standard Multiple lines centered simultaneously Standard Standard: Arabic & Roman Standard Standard	None None None None None	Standard Standard Standard Standard	TEXT INPUT FEATURES (cont'd) Auto Input Underline Auto Centering Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination TEXT EDIT & MERGE FEATURES Document Assembly/Merge
Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	Stored text merged w/keyboard text	Stored text assembled & merged w/keyboard text or other stored text	Search Capability Delete Capability Global Search & Replace
By character string	By character string	By reference codes & C, W, L & P C, L	By docu. name, page no. & cursor position C, W, L, Page & C, L Standard, max. 39-char string	Block Move/Copy Column Move/Delete Auto Repagination
C, W, L, P, Page & specified block Standard	C, W, L, or specified block Standard	None	None	Auto Widow Adjust Auto File Sort Auto File Select Auto Footnote Tie-In Term Dictionary/Glossary
Standard	Standard	None	Standard	COMMUNICATIONS Availability Format & Speed
Deletion or move across another column Operator defines no. of lines per page	Optional Standard	None None	Standard Standard	ARITHMETIC CAPABILITY EDP CAPABILITY Multiprogramming Compilers Applications Software
Standard, oper controls amt. of text forced w/in page, disk sort None	Standard Optional	None None	Standard None	PERIPHERALS
Standard Standard	Optional Optional	None None	None None	BACKGROUND INFORMATION First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase Rental Lease Maintenance Warranty & Support
Optional \$1,800 Half-duplex, IBM 2741- or 2780-compat. at 134 or 300 baud ASCII, TTY Add: Sub/Mult/Div/Percent None None	Optional TTY, 2741 2780, others, 65-9600 baud Optional Optional Basic, Fortran, Cobol, APL, Assembler, PASCAL, PILOT Payroll, billing, gen ledger, mailing list* OCR, Photocomp, line printers, RS 232 devices, Winchester & removable cartridge disks, others January 1978	None None None None None	Optional Asynch., IBM 2741, CMC, ASCII compat. at 110 to 1200 baud Standard None None Optional programs	
Optional programs	OCR wide track printer, sheet feeder, optional shared printer control	None	Tape-to-disk interface Tape-to-disk interface, OCR, phototypesetter interface, mag card	
September 1976 Canada 2,100	September 1976 Canada 2,100	August 1977 USA —	September 1977 USA —	
\$16,900	\$12,500 (5" diskettes) \$14,900 (8" diskettes) Evaluators and rentals avail in some areas Figures avail upon request \$75/mo. 90 days	\$3,995 \$170 (12-mo) \$138 (3-yr) \$103 (5-yr) \$420/yr 90 days parts & labor	\$14,500* \$575 (1-yr) \$362 (5-yr) \$900/yr 90 days parts & labor	
	Functions as a general purpose small business computer. Network configurations avail. Programmable keyboard layout * Sort, merge, other available		*\$16,500 w/wide carriage printer, \$9,995 w/o printer	REMARKS & OTHER FEATURES

### Standalone Word Processing Systems

COMPANY	AM Jacquard	Applied Computer Systems	Basic Four Wordstream	Burroughs
<b>MODEL</b>	J 500	Smart Alec	WS 1000	Burroughs R II
<b>SYSTEM CONFIGURATION</b>	Keyboard/CRT/diskette console, printer	Keyboard/CRT, diskette console, printer	CPU console, keyboard/CRT, printer	Keyboard/CRT/tape console, printer
<b>Memory Size</b>	128K	Up to 64K	64K or 128K	—
<b>Storage Media</b>	Disk, diskette	Dual diskette*	Dual diskette	Dual cassette*
<b>Storage Capacity</b>	24.48 Mb disk, 1 Mb disk	300K chars — 4.8 Mb	351,120 chars/diskette	80K chars./cassette
<b>DISPLAY STATION FEATURES</b>	12" diag CRT green/white 1920 characters 24 lines x 80 chars (1920 chars total) 8 x 10 dot matrix Left, right, up, down, home	15" diagonal CRT Approx. 10 pgs 24 lines x 80 chars (1920 chars total) 7 x 9 dot matrix Left, right, up, down, home	8" x 10 1/2" 57 lines x 80 chars (4560 chars total) 7 x 9 dot matrix Left, right, up, down, home	8" x 11" CRT 9K 60 lines x 70 chars (10 p.), x 84 chars (12 p.) 8 x 12 dot matrix Left, right, up, down
<b>Screen Size &amp; Type</b>	Standard	Standard	Standard	Standard
<b>Display Buffer Memory</b>	Standard, intensifying	Standard	Standard	Standard
<b>Format &amp; Capacity</b>	Standard, intensifying*	Standard	Standard	Standard
<b>Character Generation</b>	None	Standard	Standard	Standard
<b>Cursor Positioning</b>	None	Standard	Standard	Standard
<b>Vertical Scrolling</b>	Standard	Standard	Standard	Standard
<b>Horizontal Scrolling</b>	Up to 450 chars	Standard	Standard	Up to 98 lines
<b>Page Scrolling</b>	Standard, intensifying	Standard	Standard	Up to 158 chars
<b>Display Highlighting</b>	Standard, intensifying*	Standard	Standard	Standard
<b>Character Size Control</b>	None	Standard	Standard	Flash, reverse, intensify
<b>Character Pitch Display</b>	None	Standard	Standard	Standard
<b>Character Spacing Display</b>	None	Standard	Standard	Standard
<b>Line Spacing Display</b>	None	Standard	Standard	10, 12 prop
<b>Line Justify Display</b>	None	Standard	Standard	1, 2, 3
<b>Underscore Display</b>	Standard	Standard	Standard	Standard
<b>Sub/Superscript Display</b>	Standard	Standard	Standard	Standard
<b>Multi-Column Page Display</b>	Standard	Codes only	Standard	Standard
<b>Stored Form Recall/Display</b>	Standard	Standard	Standard	Standard
<b>Control Code Display</b>	Standard	Standard	Standard	Standard
<b>Format Statement Display</b>	Standard	Standard	Standard	Standard
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Daisy 30/45-55 cps**	Daisy wheel 45 cps 32K chars	Daisy wheel 45 cps*	Daisy wheel 55 cps**
<b>Printer Buffer Memory</b>	—	4K	—	—
<b>Character Pitch/Spacing</b>	10, 12 prop 13 1/4" and 26 1/4 opt 15" and 28 1/4 opt	10, 12 proportional 15" 15"	10, 12 pitch 13", 26 1/2" 15", 28"	10, 12 proportional 13.2" 15.5"
<b>Writing Line Width</b>	Standard	Standard	Standard	Standard
<b>Carnegie Paper Width</b>	Standard	Standard	Standard	Standard
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub/Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard
<b>Simultaneous Printout</b>	Standard	Standard	Standard	Standard
<b>GEN. FUNCTIONAL FEATURES</b>				
<b>Media Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog/Menu Prompt</b>	Standard	Standard	Standard	Standard
<b>Forms Input</b>	Standard	Standard	Standard	Standard***
<b>Control Character Printout</b>	Standard	Standard	Standard	Standard
<b>Printout Queuing</b>	Standard	Standard	None	1 page
<b>Revision &amp; Status Reporting</b>	Standard	Standard	Manual, operator option via index entries	Document index w/ productivity reports
<b>System Security</b>	Keylock & password	File protect	Standard	None
<b>TEXT INPUT FEATURES</b>				
<b>Auto Corner Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard
<b>Hyphenation</b>	Standard	Stored algorithm	Manual, 5-character Hot Zone	Manual, adjustable Hot Zone
<b>REMARKS &amp; OTHER FEATURES</b>	*Blink, Reverse **Ome wide track, Diabla TI, Printronics, NEC	*Dual density, double sided disks available	*55 cps (Optional)	*Dual mag card and dual media (card & cassette) models avail **Line printers avail ***User programmable forms input avail

### Standalone Word Processing Systems

COMPANY	AM Jacquard	Applied Computer Sys	Basic Four Wordstream	Burroughs	COMPANY
<b>MODEL</b>	J500	Smart Alec	WS 1000	Burroughs R II	<b>MODEL</b>
<b>SYSTEM CONFIGURATION</b>	Standard	Standard	Standard	Standard, also double	<b>TEXT INPUT FEATURES (cont'd)</b>
<b>Memory Size</b>	Standard	Standard	Standard	Between margins or about any point	Auto Input Underline
<b>Storage Media</b>	Standard	Standard	Standard	Standard	Auto Centering
<b>Storage Capacity</b>	Standard	Standard	Standard	Standard	Auto Line Spacing
<b>DISPLAY STATION FEATURES</b>	Stored text assembled & merged w/ other stored text or keyboarded text	Stored text assembled & merged w/ keyboarded text	Stored text assembled & merged w/ keyboarded text	Stored text assembled & merged w/ keyboarded text	Auto Page Numbering
<b>Screen Size &amp; Type</b>	By document name & char string C, W, L, P or char string	By C, W, L, P or char string C, W, L, P or char string	By diskette no., page no. & char string C, W, L, S, P, page	By mark code or char string C, W, L, P, Page	Auto Headers/Footers
<b>Display Buffer Memory</b>	Next or all occurrences, manual or auto replacement or deletion	Standard bi-directional search, manual or auto replacement	Standard	Standard	Auto Pagination
<b>Format &amp; Capacity</b>	Standard	Standard	Standard	Standard	<b>TEXT EDIT &amp; MERGE FEATURES</b>
<b>Character Generation</b>	Standard	Standard	Standard	Standard	Document Assembly/Merge
<b>Cursor Positioning</b>	Standard	Standard	Standard	Standard	<b>Search Capability</b>
<b>Vertical Scrolling</b>	Standard	Standard	Standard	Standard	<b>Delete Capability</b>
<b>Horizontal Scrolling</b>	Standard	Standard	Standard	Standard	<b>Global Search &amp; Replace</b>
<b>Page Scrolling</b>	Standard	Standard	Standard	Standard	<b>Block Move/Copy</b>
<b>Display Highlighting</b>	Standard	Standard	Standard, also column duplicate	Standard	Column Move/Delete
<b>Character Size Control</b>	Standard	Standard	Standard	Standard	<b>Auto Repagination</b>
<b>Character Pitch Display</b>	Standard	Standard	Standard	Standard	<b>Auto Widow Adjust</b>
<b>Character Spacing Display</b>	Standard	Standard	Standard	Standard	<b>Auto File Sort</b>
<b>Line Spacing Display</b>	Standard	Standard	Standard	Standard	<b>Auto File Select</b>
<b>Line Justify Display</b>	Standard	Standard	Standard	Standard	<b>Auto Footnote Tie-in Term Dictionary/Glossary</b>
<b>Underscore Display</b>	Standard	Standard	Standard	Standard	<b>COMMUNICATIONS</b>
<b>Sub/Superscript Display</b>	Standard	Standard	Standard	Standard	Availability
<b>Multi-Column Page Display</b>	Standard	Standard	Standard	Standard	Format & Speed
<b>Stored Form Recall/Display</b>	Standard	Standard	Standard	Standard	<b>ARITHMETIC CAPABILITY</b>
<b>Control Code Display</b>	Standard	Standard	Standard	Standard	EDP CAPABILITY
<b>Format Statement Display</b>	Standard	Standard	Standard	Standard	Multiprogramming Compilers
<b>PRINTER STATIONS FEATURES</b>					<b>Applications Software</b>
<b>Printer Type &amp; Speed</b>	Standard	Standard	Standard	Standard	<b>PERIPHERALS</b>
<b>Printer Buffer Memory</b>	Standard	Standard	Standard	Standard	<b>BACKGROUND INFORMATION</b>
<b>Character Pitch/Spacing</b>	Standard	Standard	Standard	Standard	First Delivery Date
<b>Writing Line Width</b>	Standard	Standard	Standard	Standard	Country of Manufacture
<b>Carnegie Paper Width</b>	Standard	Standard	Standard	Standard	Installed Base Estimate
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard	<b>PRICING &amp; TERMS</b>
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard	Purchase
<b>Justified Printout</b>	Standard	Standard	Standard	Standard	Rental
<b>Sub/Superscript Printout</b>	Standard	Standard	Standard	Standard	Lease
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard	Maintenance
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard	Warranty & Support
<b>Simultaneous Printout</b>	Standard	Standard	Standard	Standard	<b>REMARKS &amp; OTHER FEATURES</b>
<b>GEN. FUNCTIONAL FEATURES</b>					
<b>Media Stored Format</b>	Standard	Standard	Standard	Standard	
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard	
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard	
<b>Machine Dialog/Menu Prompt</b>	Standard	Standard	Standard	Standard	
<b>Forms Input</b>	Standard	Standard	Standard	Standard	
<b>Control Character Printout</b>	Standard	Standard	Standard	Standard	
<b>Printout Queuing</b>	Standard	Standard	Standard	Standard	
<b>Revision &amp; Status Reporting</b>	Standard	Standard	Standard	Standard	
<b>System Security</b>	Standard	Standard	Standard	Standard	
<b>TEXT INPUT FEATURES</b>					
<b>Auto Corner Return</b>	Standard	Standard	Standard	Standard	
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard	
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard	
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard	
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard	
<b>Hyphenation</b>	Standard	Standard	Standard	Standard	
<b>REMARKS &amp; OTHER FEATURES</b>					
	April 1979 USA	March 1977 USA	—	July 1977 USA	
	\$15,680*	\$15,000	\$15,900	\$10,650 w/o printer	
	—	\$750	\$602 (1-yr) \$513 (2-yr)	\$390	
	Available	\$350 (5-yr)	—	—	
	Manufacturer or dealer	\$100/mo	\$180/mo	\$45/mo	
	90 days, operator training	—	N/C operator training, marketing support	—	
	*Includes 128K CPU display station, dual diskette drive, word processing printer, & communications	Automatic Speller/Proof-reader, 12,000 word user expandable dictionary	Complete Data Base Management Systems, Legal Accounting Package	—	

### Standalone Word Processing Systems

COMPANY	Burroughs	Burroughs	Burroughs	Burroughs
<b>MODEL</b>	R II / 240	R II / 250	R III / 320	R III / 330
<b>SYSTEM CONFIGURATION</b>				
<b>Configuration</b>	Keyboard / CRT / diskette console, printer	Keyboard / CRT / diskette console, printer	Keyboard / CRT / diskette console, printer	Keyboard / CRT / diskette console, printer
<b>Memory Size</b>	—	—	—	—
<b>Storage Media</b>	Dual diskette	Dual diskette	Dual diskette	Dual diskette
<b>Storage Capacity</b>	144K chars / diskette	288K chars / diskette	144K chars / diskette	144K chars / diskette
<b>DISPLAY STATION FEATURES</b>				
<b>Screen Size &amp; Type</b>	8" x 11" CRT	8" x 11" CRT	9" diagonal	9" diagonal
<b>Display Buffer Memory</b>	9K	9K	9K characters	9K characters
<b>Format &amp; Capacity</b>	80 lines x 70 chars (10p), x 84 chars (12p)	80 lines x 70 chars (10p), x 84 chars (12p)	30 lines x 72 chars (10 pitch) 84 chars (12p)	30 lines x 72 chars (10 pitch) 84 chars (12p)
<b>Character Generation</b>	8 x 12 dot matrix	8 x 12 dot matrix	Char. word, field, line, para, page	8 x 12 dot matrix Char. word, field, line, para, page
<b>Cursor Positioning</b>	Left, right, up, down	Left, right, up, down	To 121 lines	To 121 lines
<b>Vertical Scrolling</b>	Up to 98 lines	Up to 98 lines	To 200 chars	To 200 chars
<b>Horizontal Scrolling</b>	Up to 158 chars	Up to 158 chars	None	None
<b>Page Scrolling</b>	Standard	Standard	Flash, rev., intensify	Flash, rev., intensify
<b>Display Highlighting</b>	Flash, reverse, intensify	Flash, reverse, intensify	Standard	Standard
<b>Character Size Control</b>	Standard	Standard	10/12	10/12
<b>Character Pitch Display</b>	Standard	Standard	Mono	Mono
<b>Character Spacing Display</b>	10/12/prop	10/12/prop	1, 2, 3	1, 2, 3
<b>Line Spacing Display</b>	1, 2, 3	1, 2, 3	None	None
<b>Line Justify Display</b>	Standard	Standard	Standard	Standard
<b>Underscore Display</b>	Standard	Standard	Standard	Standard
<b>Sub-Superscript Display</b>	Standard	Standard	Standard	Standard
<b>Multi-Column Page Display</b>	Standard	Standard	Standard	Standard
<b>Stored Form Recall / Display</b>	Standard	Standard	Standard	Standard
<b>Control Code Display</b>	Standard	Standard	Standard	Standard
<b>Format Statement Display</b>	Standard	Standard	Standard	Standard
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Daisy wheel 55 cps**	Daisy wheel 55 cps**	Daisy wheel 55 cps	Daisy wheel 55 cps
<b>Printer Buffer Memory</b>	4K	4K	4K characters	4K characters
<b>Character Pitch / Spacing</b>	10/12/prop	10/12/prop	10/12/15/prop	10/12/15/prop
<b>Writing Line Width</b>	13.2"	13.2"	13.2"	13.2"
<b>Carnage Paper Width</b>	15.5"	15.5"	15.5"	15.5"
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub-Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bi-directional Printout</b>	Standard	Standard	Standard	Standard
<b>Simultaneous Printout</b>	Standard	Standard	Standard	Standard
<b>GEN FUNCTIONAL FEATURES</b>				
<b>Media Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog / Menu Prompt</b>	Error messages	Error messages	Error messages	Error messages
<b>Forms Input</b>	Standard***	Standard***	None	None
<b>Control Character Printout</b>	Standard	Standard	Standard	Standard
<b>Printout Queuing</b>	10 pages	10 pages	32 pages	32 pages
<b>Revision &amp; Status Reporting</b>	Document index w/ productivity reports	Document index w/ productivity reports	Standard	Standard
<b>System Security</b>	Disk, File, documents	Disk, file, documents	Standard	Standard
<b>TEXT INPUT FEATURES</b>				
<b>Auto Carrier Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard
<b>Hyphenation</b>	Manual, adjustable Hot Zone	Manual, adjustable Hot Zone	Manual, adjustable hot zone	Manual, adjustable hot zone
<b>REMARKS &amp; OTHER FEATURES</b>	**3 Diskette, 2 Diskette & Tape, 2 Diskette & Card Models avail **Line printer avail ***User-programmable forms input avail	**3 Diskette, 2 Diskette & Tape, 2 Diskette & Card models avail **Line printer avail ***User-programmable forms input avail		

### Standalone Word Processing Systems

COMPANY	Burroughs	Burroughs	Burroughs	Burroughs	COMPANY
<b>MODEL</b>	R II / 240	R II / 250	R III / 320	R III / 330	<b>MODEL</b>
<b>TEXT INPUT FEATURES (cont'd)</b>					<b>TEXT INPUT FEATURES (cont'd)</b>
<b>Auto Input Underline</b>	Standard	Standard	Standard	Standard	<b>Auto Input Underline</b>
<b>Auto Centering</b>	Standard	Standard	Standard	Standard	<b>Auto Centering</b>
<b>Auto Line Spacing</b>	Standard	Standard	Standard	Standard	<b>Auto Line Spacing</b>
<b>Auto Page Numbering</b>	Standard	Standard	Standard	Standard	<b>Auto Page Numbering</b>
<b>Auto Headers / Footers</b>	Standard	Standard	Standard	Standard	<b>Auto Headers / Footers</b>
<b>Auto Pagination</b>	Standard	Standard	Standard	Standard	<b>Auto Pagination</b>
<b>TEXT EDIT &amp; MERGE FEATURES</b>					<b>TEXT EDIT &amp; MERGE FEATURES</b>
<b>Document Assembly / Merge</b>	Model 330 contains ability to create new documents from file of central documents	Model 330 contains ability to create new documents from file of central documents	By record or character string	By record or character string	<b>Document Assembly / Merge</b>
<b>Search Capability</b>	Character, width, line, paragraph, page	Character, width, line, paragraph, page	Standard	Standard	<b>Search Capability</b>
<b>Delete Capability</b>	Standard	Standard	Standard	Standard	<b>Delete Capability</b>
<b>Global Search &amp; Replace</b>	Standard	Standard	Standard	Standard	<b>Global Search &amp; Replace</b>
<b>Block Move / Copy</b>	Standard	Standard	Standard	Standard	<b>Block Move / Copy</b>
<b>Column Move / Delete</b>	Standard	Standard	Standard	Standard	<b>Column Move / Delete</b>
<b>Auto Repagination</b>	Standard	Standard	Standard	Standard	<b>Auto Repagination</b>
<b>Auto Widow Adjust</b>	Standard	Standard	Standard	Standard	<b>Auto Widow Adjust</b>
<b>Auto File Sort</b>	Standard	Standard	Standard	Standard	<b>Auto File Sort</b>
<b>Auto File Select</b>	Standard	Standard	Standard	Standard	<b>Auto File Select</b>
<b>Auto Footnote Tie-In</b>	Standard	Standard	Standard	Standard	<b>Auto Footnote Tie-In</b>
<b>Term Dictionary / Glossary</b>	Standard	Standard	Standard	Standard	<b>Term Dictionary / Glossary</b>
<b>COMMUNICATIONS</b>					<b>COMMUNICATIONS</b>
<b>Availability</b>	Standard	Standard	Standard	Standard	<b>Availability</b>
<b>Format &amp; Speed</b>	Standard	Standard	Standard	Standard	<b>Format &amp; Speed</b>
<b>ARITHMETIC CAPABILITY</b>					<b>ARITHMETIC CAPABILITY</b>
<b>EDP CAPABILITY</b>	Optional	Optional	Optional	Optional	<b>EDP CAPABILITY</b>
<b>Multi-programming</b>	Optional	Optional	Optional	Optional	<b>Multi-programming</b>
<b>Compilers</b>	None	None	None	None	<b>Compilers</b>
<b>Applications Software</b>	None	None	None	None	<b>Applications Software</b>
<b>PERIPHERALS</b>					<b>PERIPHERALS</b>
<b>Photocomp interface, shared printer, OCR paper feeder</b>	Optional	Optional	Optional	Optional	<b>Photocomp interface, shared printer, OCR paper feeder</b>
<b>BACKGROUND INFORMATION</b>					<b>BACKGROUND INFORMATION</b>
<b>First Delivery Date</b>	December 1979	December 1979	December 1979	December 1979	<b>First Delivery Date</b>
<b>Country of Manufacture</b>	USA	USA	USA	USA	<b>Country of Manufacture</b>
<b>Installed Base Estimate</b>	—	—	—	—	<b>Installed Base Estimate</b>
<b>PRICING &amp; TERMS</b>					<b>PRICING &amp; TERMS</b>
<b>Purchase</b>	\$14,400*	\$15,400*	\$6,145 w/o printer	\$7,750 w/o printer	<b>Purchase</b>
<b>Rental</b>	\$10,650 w/o printer	\$11,650 w/o printer	\$9,895 w/printer	\$11,500 w/printer	<b>Rental</b>
<b>Lease</b>	\$515 (12 mo.)*	\$550 w/printer	\$220 (1-yr) w/o printer	\$280 (1-yr) w/o printer	<b>Lease</b>
<b>Maintenance</b>	—	\$430 w/o printer	\$340 (1-yr) w/printer	\$400 (1-yr) w/printer	<b>Maintenance</b>
<b>Warranty &amp; Support</b>	—	\$80 w/printer	\$40 (w/o printer)	\$40 (w/o printer)	<b>Warranty &amp; Support</b>
	—	\$50 w/o printer	\$70 (w/printer)	\$70 (w/printer)	
<b>REMARKS &amp; OTHER FEATURES</b>	*Dual diskette model with 55 cps printer, math package, forms mode, global dir. cataloging, para no. shared printing, background comm. user programming	*Dual diskette model with 55 cps printer, math package, forms mode, global dir. cataloging, para no. shared printing, background comm. user programming	Execuscan proofreading aid, auto paragraph numbering	Execuscan proofreading aid, auto paragraph numbering	<b>REMARKS &amp; OTHER FEATURES</b>

### Standalone Word Processing Systems

COMPANY	Burroughs	Burroughs	COMPAL	Compucorp
<b>MODEL</b>	R III/340	R III/350	WORDPAL (8100 & 8200)	Text/One
<b>SYSTEM CONFIGURATION</b>	Keyboard/CRT/diskette console/printer	Keyboard/CRT/diskette console/printer	Keyboard/CRT/diskette console/printer	Keyboard/CRT, dual diskette drive, printer
<b>Memory Size</b>	—	—	56K	48K to 60K
<b>Storage Media</b>	Dual diskette	Dual density, dual sided diskette	Dual mini-diskette	Dual cassette
<b>Storage Capacity</b>	144K chars./diskette	288K chars./diskette	315K chars./diskette	to 630K chars. total
<b>DISPLAY STATION FEATURES</b>	9" diagonal 9K characters 30 lines x 72 chars (10 pitch) 84 chars (12p) 8 x 12 dot matrix Char. word, field, line para. page To 121 lines To 200 chars.	9" diagonal 9K characters 30 lines x 72 chars. (10 pitch) 84 chars (12p) 8 x 12 dot matrix Char. word, field, line para. page To 121 lines To 200 chars.	12" diagonal CRT 32K 16 lines x 64 chars * 24 lines x 80 chars ** 7 x 9 dot matrix Left, right, up, down, home left, home right* Standard Standard to 250 chars Forward & reverse Standard	— 20 lines x 80 characters 10 x 12 dot matrix Left, right, up, down, home left, home right* Standard Standard, to 155 chars. Standard
<b>Character Generation</b>	Flash, rev., intensify	Flash, rev., intensify	Inverse video	None
<b>Cursor Positioning</b>	None	None	None	None
<b>Vertical Scrolling</b>	Standard	Standard	Standard	Standard
<b>Horizontal Scrolling</b>	Standard	Standard	Standard	Standard
<b>Page Scrolling</b>	Standard	Standard	Standard	Standard
<b>Display Highlighting</b>	Standard	Standard	Standard	Standard
<b>Character Size Control</b>	Standard	Standard	Standard	Standard
<b>Character Pitch Display</b>	Standard	Standard	Standard	Standard
<b>Character Spacing Display</b>	Standard	Standard	Standard	Standard
<b>Line Spacing Display</b>	Standard	Standard	Standard	Standard
<b>Line Justify Display</b>	Standard	Standard	Standard	Standard
<b>Underscore Display</b>	Standard	Standard	Standard	Standard
<b>Sub Superscript Display</b>	Standard	Standard	Standard	Standard
<b>Multi-Column Page Display</b>	Standard	Standard	Standard	Standard
<b>Stored Form Recall/Display</b>	Standard	Standard	Standard	Standard
<b>Control Code Display</b>	Standard	Standard	Standard	Standard
<b>Format Statement Display</b>	Standard	Standard	Standard	Standard
<b>PRINTER STATIONS FEATURES</b>	Daisy wheel, 55 cps 4K characters 10/12/15 prop 13 2" 15 5"	Daisy wheel, 55 cps 4K characters 10/12/15 prop 13 2" 15 5"	Thimble, 55 cps*** 256 chars Variable 1 to 120 pitch 13" 15"	— 200 characters 10/12 14" 15"
<b>Printer Type &amp; Speed</b>	Standard	Standard	Standard	Standard
<b>Printer Buffer Memory</b>	Standard	Standard	Standard	Standard
<b>Character Pitch/Spacing</b>	Standard	Standard	Standard	Standard
<b>Writing Line Width</b>	Standard	Standard	Standard	Standard
<b>Carrage Paper Width</b>	Standard	Standard	Standard	Standard
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard
<b>Simultaneous Printout</b>	Standard	Standard	Standard	Standard
<b>GEN FUNCTIONAL FEATURES</b>	Standard	Standard	Standard	Standard
<b>Media Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog/Menu Prompt</b>	Standard	Standard	Standard	Standard
<b>Forms Input</b>	None	None	Standard	Standard
<b>Control Character Printout</b>	Standard	Standard	None	None
<b>Printout Queuing</b>	32 pages	32 pages	Standard	Standard
<b>Revision &amp; Status Reporting</b>	Standard	Standard	None	None
<b>System Security</b>	Standard	Standard	None	Standard
<b>TEXT INPUT FEATURES</b>	Standard	Standard	Standard	Standard
<b>Auto Corner Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	None	Standard
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	None
<b>Hyphenation</b>	Manual, adjustable hot zone	Manual, adjustable hot zone	Stored algorithm	Variable Hot Zone
<b>REMARKS &amp; OTHER FEATURES</b>			*8100 **8200 ***Daisy Wheel printer optional w both models.	*Next word, previous word, begin/end of document Document or letter oriented. Virtual scrolling on disk.

### Standalone Word Processing Systems

COMPANY	Burroughs	Burroughs	COMPAL	Compucorp	COMPANY
<b>MODEL</b>	R III/340	R III/350	WORDPAL (8100 & 8200)	Text/One	<b>MODEL</b>
<b>SYSTEM CONFIGURATION</b>	Standard Between margins or around a point Standard Standard Standard Standard	Standard Between margins or around a point Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard	<b>TEXT INPUT FEATURES (cont'd)</b> Auto Input Underline Auto Centering Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination TEXT EDIT & MERGE FEATURES Document Assembly/Merge
<b>Memory Size</b>	Model 340 contains ability to create new documents from file of central documents By record or character string Character width, line, paragraph, page Standard	Model 340 contains ability to create new documents from file of central documents By record or character string Character width, line, paragraph, page Standard	Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	<b>Search Capability</b>  <b>Delete Capability</b>  <b>Global Search &amp; Replace</b>
<b>Storage Media</b>	Character, width, line, paragraph, page Standard	Character, width, line, paragraph, page Standard	By character string C, W, L, S, P, specified block Standard	Standard	<b>Block Move/Copy</b>  <b>Column Move/Delete</b>  <b>Auto Repagination</b>
<b>Storage Capacity</b>	Standard	Standard	Standard	Standard	<b>Auto Widow Adjust</b>
<b>DISPLAY STATION FEATURES</b>	Standard	Standard	Standard	Standard	<b>Auto File Sort</b>
<b>Screen Size &amp; Type</b>	Standard	Standard	Standard	Standard	<b>Auto File Select</b>
<b>Display Buffer Memory</b>	Standard	Standard	Standard	Standard	<b>Auto Footnote Tie-In</b> <b>Term Dictionary/Glossary</b>
<b>Format &amp; Capacity</b>	Standard	Standard	Standard	Standard	<b>COMMUNICATIONS</b> Availability Format & Speed
<b>Character Generation</b>	Standard	Standard	Standard	Standard	<b>ARITHMETIC CAPABILITY</b> EDP CAPABILITY Multiprogramming Compilers
<b>Cursor Positioning</b>	Standard	Standard	Standard	Standard	<b>Applications Software</b>
<b>Vertical Scrolling</b>	Standard	Standard	Standard	Standard	<b>PERIPHERALS</b>
<b>Horizontal Scrolling</b>	Standard	Standard	Standard	Standard	<b>BACKGROUND INFORMATION</b> First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
<b>Page Scrolling</b>	Standard	Standard	Standard	Standard	<b>Rental</b>
<b>Display Highlighting</b>	Standard	Standard	Standard	Standard	<b>Lease</b>
<b>Character Size Control</b>	Standard	Standard	Standard	Standard	<b>Maintenance</b>
<b>Character Pitch Display</b>	Standard	Standard	Standard	Standard	<b>Warranty &amp; Support</b>
<b>Character Spacing Display</b>	Standard	Standard	Standard	Standard	<b>REMARKS &amp; OTHER FEATURES</b>
<b>Line Spacing Display</b>	Standard	Standard	Standard	Standard	
<b>Line Justify Display</b>	Standard	Standard	Standard	Standard	
<b>Underscore Display</b>	Standard	Standard	Standard	Standard	
<b>Sub Superscript Display</b>	Standard	Standard	Standard	Standard	
<b>Multi-Column Page Display</b>	Standard	Standard	Standard	Standard	
<b>Stored Form Recall/Display</b>	Standard	Standard	Standard	Standard	
<b>Control Code Display</b>	Standard	Standard	Standard	Standard	
<b>Format Statement Display</b>	Standard	Standard	Standard	Standard	
<b>PRINTER STATIONS FEATURES</b>	Standard	Standard	Standard	Standard	
<b>Printer Type &amp; Speed</b>	Standard	Standard	Standard	Standard	
<b>Printer Buffer Memory</b>	Standard	Standard	Standard	Standard	
<b>Character Pitch/Spacing</b>	Standard	Standard	Standard	Standard	
<b>Writing Line Width</b>	Standard	Standard	Standard	Standard	
<b>Carrage Paper Width</b>	Standard	Standard	Standard	Standard	
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard	
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard	
<b>Justified Printout</b>	Standard	Standard	Standard	Standard	
<b>Sub Superscript Printout</b>	Standard	Standard	Standard	Standard	
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard	
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard	
<b>Simultaneous Printout</b>	Standard	Standard	Standard	Standard	
<b>GEN FUNCTIONAL FEATURES</b>	Standard	Standard	Standard	Standard	
<b>Media Stored Format</b>	Standard	Standard	Standard	Standard	
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard	
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard	
<b>Machine Dialog/Menu Prompt</b>	Standard	Standard	Standard	Standard	
<b>Forms Input</b>	Standard	Standard	Standard	Standard	
<b>Control Character Printout</b>	Standard	Standard	Standard	Standard	
<b>Printout Queuing</b>	Standard	Standard	Standard	Standard	
<b>Revision &amp; Status Reporting</b>	Standard	Standard	Standard	Standard	
<b>System Security</b>	Standard	Standard	Standard	Standard	
<b>TEXT INPUT FEATURES</b>	Standard	Standard	Standard	Standard	
<b>Auto Corner Return</b>	Standard	Standard	Standard	Standard	
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard	
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard	
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard	
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard	
<b>Hyphenation</b>	Standard	Standard	Standard	Standard	
<b>REMARKS &amp; OTHER FEATURES</b>					

## Standalone Word Processing Systems

COMPANY	CPT	CPT	CPT	Datapoint
<b>MODEL</b>	Cassette 4200 Series	6000	8000	1500
<b>SYSTEM CONFIGURATION</b>	Typewriter, cassette console, CRT*	Keyboard/CRT/diskette console, printer	Keyboard/CRT/diskette console, printer	Keyboard/CRT/diskettes
<b>Memory Size</b>	—	48K	64K	64K
<b>Storage Media</b>	Dual cassette	Single diskette	Dual diskette	Diskette
<b>Storage Capacity</b>	125 chars./cassette	315K chars./diskette	315K chars./diskette	1Mb
<b>DISPLAY STATION FEATURES</b>	5" x 7"; CRT* 1024 chars 14 lines x 96 chars (1024 chars. total)	8 5/8" x 5" CRT 8K 19 lines x 80 chars. (1520 chars. total)	15" diagonal CRT 12K 54 lines x 80 chars. (4320 chars. total)	5" x 8" CRT 1920 characters 24 lines x 80 characters
<b>Display Buffer Memory</b>	—	—	—	—
<b>Format &amp; Capacity</b>	5 x 7 dot matrix	7 x 9 dot matrix	7 x 9 dot matrix	Dot Matrix
<b>Cursor Positioning</b>	Left, right, up, down	Left, right, up, down	Left, right, up, down	—
<b>Vertical Scrolling</b>	Standard	Standard	Standard	Standard
<b>Horizontal Scrolling</b>	Standard	None	Standard	Standard
<b>Page Scrolling</b>	Standard	Standard, frwd & rvse	Standard	Standard
<b>Display Highlighting</b>	None	None	None	None
<b>Character Size Control</b>	None	None	None	None
<b>Character Pitch Display</b>	None	None	None	None
<b>Character Spacing Display</b>	None	None	None	None
<b>Line Spacing Display</b>	None	Standard	Single, double & triple	Standard
<b>Line Justify Display</b>	None	None	None	Standard
<b>Underscore Display</b>	Standard	Standard	None	Code Only
<b>Sub/Superscript Display</b>	Codes only	Standard	Standard	Code Only
<b>Multi-Column Page Display</b>	None	Standard	Standard	None
<b>Stored Form Recall/Display</b>	Standard	Standard	Standard	Standard
<b>Control Code Display</b>	Standard	Standard	Standard	Standard
<b>Format Statement Display</b>	None	Standard	Format display line	Standard
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	IBM Selectric 15.5 cps**	Daisy wheel, 45 cps*	Daisy wheel 45 cps*	Daisy, 45 cps
<b>Printer Buffer Memory</b>	—	256 chars	256 chars	512 chars min.
<b>Character Pitch/Spacing</b>	10, 12	10, 12/15	10, 12/15 or proportional	10/12/15
<b>Writing Line Width</b>	13"	13"	13"	13"
<b>Carriage Paper Width</b>	15 5/8"	15"	15"	15"
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	None	Standard	Standard	Standard
<b>Sub/Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	None	None	None	None
<b>Simultaneous Printout</b>	None	Standard	Standard	Standard
<b>GEN. FUNCTIONAL FEATURES</b>	Optional w/ display	Standard	Standard	Standard
<b>Media-Stored Format</b>	None	Standard	Standard	Standard
<b>Default Format Statement</b>	None	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	None	Standard	Standard	Standard
<b>Machine Dialog/Menu Prompt</b>	None	Limited	Limited	Limited
<b>Forms Input</b>	None	Standard	Standard	Standard
<b>Control Character Printout</b>	Standard	Standard**	Standard**	Standard
<b>Printout Queuing</b>	None	Standard**	Standard**	Standard
<b>Revision &amp; Status Reporting</b>	None	None	System mode & current line no displayed	Standard
<b>System Security</b>	Keylock on comm. module	Standard	Standard	Standard
<b>TEXT INPUT FEATURES</b>				
<b>Auto Carrier Return</b>	Optional*	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Optional*	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	None	Standard	Standard	Standard
<b>Auto Decimal Tab</b>	None	Standard	Standard	Standard
<b>Hyphenation</b>	Manual; 6-char. Hot Zone	Stored algorithm	Stored algorithm	Manual
<b>REMARKS &amp; OTHER FEATURES</b>	*Visual Memory display optional, \$2,795 **Quine daisy avail as CPT Rotary III, 45 cps	*Or Diablo 35 cps **17 doc. print queue Variable file format on disk max 1000 doc. or page oriented alphanumeric page labels, table of contents recalled alphabetically from diskette	*Or Diablo 35 cps, GE line printer, 240 cps, Twin-Track printers also available **17 documents in print queue.	

## Standalone Word Processing Systems

CPT	CPT	CPT	Datapoint	COMPANY
Cassette 4200 Series	6000	8000	1500	<b>MODEL</b>
None	None	Standard	Standard	<b>TEXT INPUT FEATURES (cont'd)</b>
None	Standard	Standard	Standard	Auto Input Underline
None	Standard	Standard	Standard	Auto Centering
None	None	Standard	Standard	Auto Line Spacing
None	None	Standard	Standard	Auto Page Numbering
None	Standard	Standard	Standard	Auto Headers/Footers
Optional w/display	Standard	Standard	Standard	Auto Pagination
Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	<b>TEXT EDIT &amp; MERGE FEATURES</b>
By reference codes	By document or page file name or number	By page & line no., char string	By document name & character string	Document Assembly/Merge
C, L	C, W, L, P, page, up and down	C, W, L, P, Page, up and down	C, W, L, S, P	<b>Search Capability</b>
None	Standard, page or document	Standard, page or document	Standard	<b>Delete Capability</b>
None	Standard	Standard	Standard	<b>Global Search &amp; Replace</b>
None	Standard	Standard	Standard	<b>Block Move/Copy</b>
None	Standard	Standard	None	<b>Column Move/Deletes</b>
None	Standard	Standard	Standard	<b>Auto Repagination</b>
None	None	Standard	None	<b>Auto Widow Adjust</b>
None	Standard	Standard	Standard	<b>Auto File Sort</b>
None	None	Standard	Standard	<b>Auto File Select</b>
None	None	None	None	Auto Footnote Tie-In
None	Standard	Standard	None	Term Dictionary/Glossary
Optional	Standard	Optional	Optional, TTY, 3270, synchronously batch emulators at 110 to 9600 baud	<b>COMMUNICATIONS</b>
Half- or full-duplex ASCII at 50 to 9600 baud	Asynch. ASCII, TTY at 110 to 9600 baud	Half- or full-duplex ASCII at 110 to 9600 baud	Optional	Availability
None	None	Optional	Standard	<b>Format &amp; Speed</b>
None	None	None	Standard	<b>ARITHMETIC CAPABILITY</b>
None	None	None	Standard	<b>EDP CAPABILITY</b>
None	None	None	Standard	<b>Multiprogramming</b>
None	None	Available	Available	<b>Compilers</b>
Computer tape, photo-composition interface	Wide track printer, sheet feeder, mag card reader	Cassette reader for interface with 4200, OCR, multiple console interface, sheet feeder*	Printers, Communications	<b>Applications Software</b>
June 1972* USA \$12,000	April 1979 USA	September 1977 USA	1977/1980 (hard./soft.) USA \$5,000+ (hardware)	<b>PERIPHERALS</b>
\$6,295 (\$9,090 with display option) \$250	\$6,990*	\$14,990	\$7,475	<b>BACKGROUND INFORMATION</b>
\$204 (5-yr)	\$280	\$590	\$412	First Delivery Date
\$450/yr	3rd party	\$627/year	\$269 (2-year)	Country of Manufacture
90 days	90 days	90 days	90 days	Installed Base Estimate
				<b>PRICING &amp; TERMS</b>
				Purchase
				Rental
				Loss
				Maintenance
				Warranty & Support
*Visual Memory display option introduced 1976	*Without printer; user is able to multiplex up to 4 consoles	*Mag card reader. Wide Track Printer Compu-Pak system supports cp/m to combine wp and dp capabilities on 8000 system		<b>REMARKS &amp; OTHER FEATURES</b>

### Standalone Word Processing Systems

COMPANY	Datapoint	Datapoint	Data Terminals & Communications	A. B. Dick
<b>MODEL</b>	1800	3800	MICROFILE	Magna I
<b>SYSTEM CONFIGURATION Configuration</b>	Keyboard/CRT/diskettes	Keyboard/CRT, File Processor	Keyboard/printer, diskette console	Typewriter, card console
<b>Memory Size Storage Media</b>	60K to 120K Diskette, ARC Disk	60K to 120K ARC Disk	8K to 64K total 2 or 4 diskettes	8K Magnetic card
<b>Storage Capacity DISPLAY STATION FEATURES Screen Size &amp; Type Display Buffer Memory Format &amp; Capacity</b>	4Mb 5" x 8" CRT 1920 characters 24 lines x 80 characters	400Mb 5" x 8" CRT 1920 characters 24 lines x 80 characters	300K char /diskette	5K chars /card
<b>Character Generation Cursor Positioning</b>	Dot Matrix	Dot Matrix	Optional* Not Available Not Available	Not Available Not Available Not Available
<b>Vertical Scrolling Horizontal Scrolling Page Scrolling Display Highlighting Character Size Control Character Pitch Display Character Spacing Display Line Spacing Display Line Justify Display Underscore Display Sub-Superscript Display Multi-Column Page Display Stored Form Recall/Display Control Code Recall/Display Format Statement Display</b>	Standard Standard Standard None None None Standard Standard Code only Code only None Standard Standard	Standard Standard Standard Standard None None Standard Standard Code Only Code Only None Standard Standard	Optional* Not Available Optional* Optional* Not Available Not Available Not Available Not Available Not Available Optional--codes only* Not Available Optional* Optional* Optional*	Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available
<b>PRINTER STATIONS FEATURES Printer Type &amp; Speed Printer Buffer Memory Character Pitch/Spacing Writing Line Width Carriage Paper Width First Line Forms Advance End-Of-Page Stop Justified Printout Sub-Superscript Printout Non-Adjust Printout Bidirectional Printout Simultaneous Printout</b>	Daisy, 45 cps 512 chars min 10/12/15 13 2" 15"	Daisy, 45 cps 512 chars min 10/12/15 13 2" 15"	— — 10/12 13 2" 15"	Qume daisy 45 cps None 10/12 13 2" 15"
<b>GEN. FUNCTIONAL FEATURES Media-Store Format Default Format Statement Stored Multiple Formats Machine Dialog / Menu Prompt</b>	Standard Standard Standard	Standard Standard Standard	Standard None None None	Standard None None Display shows machine status None Standard w/program card None
<b>Forms Input Control Character Printout Printout Queuing</b>	Standard Standard Standard	Standard Standard Standard	None None None	None Standard Standard
<b>Revision &amp; Status Reporting</b>	Standard	Standard	None	None
<b>System Security</b>	Standard	Standard	None	None
<b>TEXT INPUT FEATURES Auto Carrier Return Auto Word Wraparound Auto Margin Adjust Temporary Margins</b>	Standard Standard Standard Standard	Standard Standard Standard Standard	None None Standard None	Standard None Standard None
<b>Auto Decimal Tab Hyphenation</b>	Standard Manual	Standard Manual	None Manual, adjustable Hot Zone	None Manual during system scan, adj Hot Zone
<b>REMARKS &amp; OTHER FEATURES</b>			"9" x 11" CRT (DTC 382)	

### Standalone Word Processing Systems

Datapoint	Datapoint	Data Terminals & Communications	A. B. Dick	COMPANY
1800	3800	MICROFILE	Magna I	<b>MODEL</b>
Standard Standard	Standard Standard	Standard Standard	Standard Between margins or about any point Standard, 10 settings None None None	<b>TEXT INPUT FEATURES (cont'd)</b> Auto Input Underline Auto Centering
Standard Standard Standard Standard	Standard Standard Standard Standard	Optional Optional Optional Optional	None None None	Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination <b>TEXT EDIT &amp; MERGE FEATURES</b> Document Assembly/Merge
Stored text assembled & merged w/keyboarded text	Stored text assembled & merged w/keyboarded text	Stored instructions w/keyboarded text	Stored text merged w/keyboarded text	
By document name & character string C, W, L, S, P	By document name & character string C, W, L, S, P, Page	By document name, char string or line no C, W, L, S, multiple line	By line no (card) or char string (memory) C, W, L, S, P, Page	<b>Search Capability</b>
Standard	Standard	Standard	Next occurrence of max 60-char string manual replacement	<b>Delete Capability</b>
Standard	Standard	Access lines and imbed files Optional	Standard	<b>Global Search &amp; Replace</b>
None	None	None	None	<b>Block Move/Copy</b>
Standard	Standard	None	None	<b>Column Move/Delete</b>
None	None	None	Manual	<b>Auto Repagination</b>
Standard	Standard	Standard	None	<b>Auto Widow Adjust</b>
Standard	Standard	2-level standard	None	<b>Auto File Sort</b>
None	None	None	Manual Up to 99 items stored in working memory	<b>Auto File Select</b>
None	None	None	None	<b>Auto Footnote Tie-In Term Dictionary/Glossary</b>
Optional, ITY, 3270, synchronous batch emulators at 110 to 9600 bps Standard	Optional, TTY, 3270, synchronous batch emulators at 110 to 9600 bps Standard	Standard Asynchronous ASCII at 110 to 9600 baud X-on, X-off Full	Optional \$1 500 CMC, 2741 134 5 at 300 baud ASCII Async., 110, 150 or 300 bps Optional arithmetic pkg	<b>COMMUNICATIONS Availability Format &amp; Speed</b>
Standard Cobol, RPG II, BASIC, DATASHARE, DATABUS Available	Standard Cobol, RPG-II, BASIC, DATASHARE, DATABUS Available	None Assembler, BASIC*, FORTRAN* Available**	None None None	<b>ARITHMETIC CAPABILITY EDP CAPABILITY Multiprogramming Compilers</b>
Mag Tape, Printers, Card Reader, Communications	Mag Tape, Printers, Card Reader, Communications	Additional diskette drives, additional memory, RS 232 devices	None	<b>Applications Software</b>
1977/1980 (hard/soft) USA 3,500 (hardware)	1977/1980 (hard/soft) USA 2,000 (hardware)	December 1976 USA	March 1976 USA	<b>PERIPHERALS</b>
\$10,975	\$6,950	\$4,975 (dual diskette) \$7,395 (4 diskettes)	\$5,950	<b>BACKGROUND INFORMATION</b> First Delivery Date Country of Manufacture Installed Base Estimate <b>PRICING &amp; TERMS</b> Purchase
\$455	\$325	—	\$275 (2-yr) \$255 (3-yr)	<b>Rental</b>
\$340 (2-year)	\$230 (2-year)	\$193 (1-yr)	—	<b>Lease</b>
\$107	\$44	\$45/mo	\$630/yr	<b>Maintenance</b>
30 days	30 days	90 day warranty	90 days, operator training, MSR support	<b>Warranty &amp; Support</b>
				<b>REMARKS &amp; OTHER FEATURES</b>
				*BASIC interpreter and FORTRAN compiler require additional memory **Document Processor software \$275

### Standalone Word Processing Systems

COMPANY	A.B. Dick	Dictaphone/Artec	Dictaphone/Artec	Digital Equipment (DEC)
<b>MODEL</b>	Magna II	Display 2000	Dual Display	WS 78
<b>SYSTEM CONFIGURATION</b>	Typewriter, display, card console	Keyboard/display, diskette console	Keyboard/CRT, diskette console, printer	Keyboard/CRT/diskette mini-disk
<b>Memory Size</b>	8K	32K	96K	76K
<b>Storage Media</b>	Magnetic card	Single or dual diskette	Dual diskette	Dual diskette (1 or 2)
<b>Storage Capacity</b>	5K chars./card	256K chars./diskette	500,000 chars.*	250K chars./diskette
<b>DISPLAY STATION FEATURES</b>				
<b>Screen Size &amp; Type</b>	1" x 5.5" LED	1" x 10" Gas plasma	15" diagonal CRT**	12" diagonal CRT
<b>Display Buffer Memory</b>	None	1 line	7K	2K chars
<b>Format &amp; Capacity</b>	1 line x 32 chars (32 chars. total)	1 line x 37 chars (37 chars. total)	86 lines x 102 chars	24 lines x 80 chars (1920 chars total)
<b>Character Generation</b>	5 x 7 dot matrix	Dot matrix	Dot matrix	5 x 7 dot matrix
<b>Cursor Positioning</b>	Right	Space, backspace	Left, right, up, down, top of screen, end of screen	Left, right along fixed line
<b>Vertical Scrolling</b>	None	None	Standard	Standard
<b>Horizontal Scrolling</b>	Standard	Standard	Standard	None
<b>Page Scrolling</b>	None	None	Standard	Standard
<b>Display Highlighting</b>	None	Flashing	Standard	None
<b>Character Size Control</b>	None	None	Standard	None
<b>Character Pitch Display</b>	None	Standard	Standard	None
<b>Character Spacing Display</b>	None	Codes only	Standard	None
<b>Line Spacing Display</b>	None	Codes only	Standard	None
<b>Line Justify Display</b>	None	None	Standard	None
<b>Underscore Display</b>	Code only	Codes only (Eng abbrev.)	Standard	Code only
<b>Sub / Superscript Display</b>	Code only	Codes only (Eng abbrev.)	Standard	Code only
<b>Multi-Column Page Display</b>	None	None	Standard	Manual
<b>Stored Form Recall / Display</b>	None	Standard	Standard	Standard
<b>Control Code Display</b>	Standard	Standard	Standard	Standard
<b>FORMAT STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Curse daisy 45 cps	Daisy wheel 40 cps	Metal daisy wheel, 40 cps	Daisy wheel 45 cps*
<b>Printer Buffer Memory</b>	None	6K chars	2K chars	—
<b>Character Pitch / Spacing</b>	10/12	10/12/proportional	10/12/proportional	Variable
<b>Writing Line Width</b>	13.2"	15"	13"	13.2"
<b>Carnage Paper Width</b>	15"	15"	15"	15"
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard w/program card	Std., intercharacter sp.	Std., intercharacter sp.	Standard
<b>Sub / Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bi-directional Printout</b>	None	Standard	Standard	Standard
<b>Simultaneous Printout</b>	None	None	Standard	Standard
<b>GEN FUNCTIONAL FEATURES</b>				
<b>Media-Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	None	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog / Menu Prompt</b>	Standard	Display shows machine status	Prompting cues & error messages	Displays all operator options
<b>Forms Input</b>	Standard w/program card	Standard	Standard	None
<b>Control Character Printout</b>	Standard	Standard	Standard	None
<b>Printout Queuing</b>	None	None	Standard on multi-sta. configuration	8-document list
<b>Revision &amp; Status Reporting</b>	None	None	Standard	Index shows date & time of last doc. access**
<b>System Security</b>	None	Document protect code	Standard	None
<b>TEXT INPUT FEATURES</b>				
<b>Auto Carrier Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	None	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard
<b>Hyphenation</b>	Manual during system scan; adj. Hot Zone	Scan before print, adjustable Hot Zone	System scan before print-out	Manual, discretionary hyphens
<b>REMARKS &amp; OTHER FEATURES</b>			*Double sided, dual density diskettes available as option. **And 37-char. thin window display on keyboard module.	*Draft printers. 180 cps & 34 lpm, also avail. **Index also shows total time spent on document.

### Standalone Word Processing Systems

COMPANY	A.B. Dick	Dictaphone/Artec	Dictaphone/Artec	Digital Equipment (DEC)	COMPANY
<b>MODEL</b>	Magna II	Display 2000	Dual Display	WS-78	<b>MODEL</b>
<b>TEXT INPUT FEATURES (cont'd)</b>					Auto Input Underline
<b>Auto Centering</b>	Standard	Standard	Standard	Standard	Auto Line Spacing
<b>Auto Page Numbering</b>	Standard	Standard	Standard	Standard	Auto Headers / Footers
<b>Auto Pagination</b>	Standard	Standard	Standard	Standard	Auto Pagination
<b>TEXT EDIT &amp; MERGE FEATURES</b>					Document Assembly/Merge
<b>Recorded text merged w/keyboarded text</b>	Standard	Standard	Standard	Standard	Recorded text merged w/lists, boilerplate or keyboarded text
<b>By line number</b>	C, W, L, Para., character string	C, W, L, P, char string	C, W, L, P, char string	C, W, L, S & document	By doc. char. string & cursor
<b>Search Capability</b>	Standard	Standard	Standard	Standard	Standard, automatic via user-defined keys
<b>Delete Capability</b>	Standard	Standard	Standard	Standard	Standard, automatic via user-defined keys
<b>Global Search &amp; Replace</b>	Standard	Standard	Standard	Standard	Standard, automatic via user-defined keys
<b>Block Move / Copy</b>	Standard	Standard	Standard	Standard	Standard
<b>Column Move / Deletes</b>	Standard	Standard	Standard	Standard	Standard
<b>Auto Repagination</b>	Standard	Standard	Standard	Standard	Standard
<b>Auto Widow Adjust</b>	Standard	Standard	Standard	Standard	Standard
<b>Auto File Sort</b>	Standard	Standard	Standard	Standard	Standard
<b>Auto File Select</b>	Standard	Standard	Standard	Standard	Standard
<b>Auto Footnote Tie-In</b>	Standard	Standard	Standard	Standard	Standard
<b>Term Dictionary / Glossary</b>	Standard	Standard	Standard	Standard	Standard
<b>COMMUNICATIONS</b>					Availability
<b>Format &amp; Speed</b>	Standard (Mod. 4, 5)	Standard (Mod. 4, 5)	Optional	Optional	Optional
<b>Multiple level standard through list processing</b>	Standard	Standard	Standard	Standard	Standard
<b>Manual</b>	Standard	Standard	Standard	Standard	Standard
<b>Optional \$1,500 ASCII Async, 110, 150 or 300 bps</b>	Optional, \$2,500 Half- or full-duplex, synch. 50 to 9600 baud	Optional, \$2,500 Half- or full duplex, synch. 50-4800 baud	Optional, \$2,500 Half- or full duplex, synch. 50-4800 baud	Optional, \$1,050 Asynchronous full duplex ASCII	Optional, \$1,050 Asynchronous full duplex ASCII
<b>Standard (Mod. 3, 5)</b>	Standard (Mod. 3, 5)	Standard (Mod. 3, 5)	Optional	Optional COS 310 or OS78	Optional COS 310 or OS78
<b>None</b>	None	None	Optional	None	None
<b>None</b>	None	None	Optional	None	None
<b>None</b>	None	None	All standard	Accounting & others avail	Accounting & others avail
<b>To be announced</b>	Paper tape reader, telex punch, IBM mag card reader	Paper tape reader, telex punch, IBM mag card reader	Dot matrix printer, sheet feeder	OCR*, line printers, photocomposition	OCR*, line printers, photocomposition
<b>March 1978 USA</b>	February 1977 USA	February 1980 USA	October 1977 USA	October 1977 USA	October 1977 USA
<b>\$7,800</b>	\$9,450 (Model 1) \$9,950 (Model 2)** \$320 (1-yr.) Mod. 2	\$15,950*	\$11,995	\$11,995	\$11,995
<b>\$315 (2-yr.)</b>	\$228 (5-yr.) \$230 (5-yr.) \$48/mo.	Not available	3rd party	3rd party	3rd party
<b>\$295 (3-yr.)</b>	\$693/yr	\$90/mo.	—	—	—
<b>90 days, operator training, MSR support</b>	Artec service	90 days, operator training	90 days, self-instruction package	90 days, self-instruction package	90 days, self-instruction package
<b>*Document assembly with program card.</b>	*Model 2 only 2nd diskette drive \$1,500, either model. **\$10,950 (Mod. 3); \$10,950 (Mod. 4); \$11,950 (Mod. 5)	*May also be configured as a shared-resource system with up to four diskettes and additional keyboard/CRT workstations.	Hendrix & Context supported. Can switch from standalone to terminal for shared logic configuration.	Hendrix & Context supported. Can switch from standalone to terminal for shared logic configuration.	Hendrix & Context supported. Can switch from standalone to terminal for shared logic configuration.
<b>REMARKS &amp; OTHER FEATURES</b>					



Standalone Word Processing Systems

COMPANY	Digital Equipment (DEC)	IBM/ OPD	IBM/ OPD	IBM/ OPD
MODEL	WS 81	Displaywriter System	MT/ ST-II	MT/ ST-IV
SYSTEM CONFIGURATION	Keyboard, CRT, diskette console	Display station, CRT, keyboard, electronics module, single dual diskette, printer (opt.)	Typewriter, tape console	Typewriter, tape console
Memory Size	32K words	160K to 192K	—	—
Storage Media	Dual diskette	IBM diskette 1 (single or dual)	Tape cartridge	Dual tape cartridge
Storage Capacity	256K (text) 125K (system)	284K chars. control	23K chars / cartridge	23K chars / cartridge
DISPLAY STATION FEATURES				
Screen Size & Type	12" diagonal CRT	12" diagonal CRT	Not Available	Not Available
Display Buffer Memory	7500 characters	25 lines x 80 chars (2000 chars. total)	Not Available	Not Available
Format & Capacity	24 lines x 80 chars	8 x 16 dot matrix	Not Available	Not Available
Character Generation	7 x 9 dot matrix	Directional left, right, up, down, home	Not Available	Not Available
Cursor Positioning	Left, right, along fixed line	Standard	Not Available	Not Available
Vertical Scrolling	Standard	Standard	Not Available	Not Available
Horizontal Scrolling	Standard	Standard	Not Available	Not Available
Page Scrolling	Standard	Standard	Not Available	Not Available
Display Highlighting	None	Blinking, reverse video	Not Available	Not Available
Character Size Control	None	Fixed	Not Available	Not Available
Character Pitch Display	None	Fixed	Not Available	Not Available
Character Spacing Display	None	Single shown all settings	Not Available	Not Available
Line Spacing Display	Standard	Ragged right only	Not Available	Not Available
Line Justify Display	None	Standard	Not Available	Not Available
Underscore Display	Codes only	Standard, one level	Not Available	Not Available
Sub-Superscript Display	Codes only	—	Not Available	Not Available
Multi-Column Page Display	Manual	—	Not Available	Not Available
Stored Form Recall Display	Standard	Text Pack II*	Not Available	Not Available
Control Code Display	Standard	Standard	Not Available	Not Available
Format Statement Display	Standard	—	Not Available	Not Available
PRINTER STATIONS FEATURES				
Printer Type & Speed	Daisy wheel, 45 cps	15.5 cps**, 40, 60 cps***	IBM Selectric 15.5 cps	IBM Selectric 15.5 cps
Printer Buffer Memory	—	—	—	—
Character Pitch Spacing	Variable & proportional	10/12 Selectric	10/12	10/12
Writing Line Width	13.2"	12.5***, 13.2****	13"	13"
Carnage Paper Width	15"	15***, 15.4****	15.5"	15.5"
First Line Forms Advance	Standard	Standard	None	None
End-Of-Page Stop	Standard	Standard	None	None
Justified Printout	Standard	Standard	None	None
Sub-Superscript Printout	Standard	Standard	None	None
Non-Adjust Printout	Standard	Standard	Standard	Standard
Bidirectional Printout	Standard	Standard	None	None
Simultaneous Printout	Standard	Standard	None	None
GEN. FUNCTIONAL FEATURES				
Media-Stored Format	Standard	None	None	None
Default Format Statement	Standard	Standard	None	None
Stored Multiple Formats	Standard	—	None	None
Machine Dialog / Menu Prompt	Displays all oper. options	Standard	None	None
Forms Input	Standard	—	None	None
Control Character Printout	None	—	None	None
Printout Queuing	Standard, 8 docs per term max. in queue	Standard	None	None
Revision & Status Reporting	—	—	None	None
System Security	None	Keylock, password for comm. encryption	None	None
TEXT INPUT FEATURES				
Auto Corner Return	Standard	Standard	None	None
Auto Word Wraparound	Standard	Standard	None	None
Auto Margin Adjust	Standard	Standard, left only	Standard	Standard
Temporary Margins	Standard	—	None	None
Auto Decimal Tab	Standard	Standard	None	None
Hyphenation	Manual, discretionary hyphens	Standard, Prompted with adjustable Hot Zone	None	Manual, 12-char Hot Zone
REMARKS & OTHER FEATURES		*Operator selectable **Electric printer ***IBM printwheel printer 10/12 proportional Spelling verification ad of 50,000 words - customer defined 500 wd. suppl.		

Standalone Word Processing Systems

Digital Equipment (DEC)	IBM/ OPD	IBM/ OPD	IBM/ OPD	COMPANY
WS 81	Displaywriter System	MT/ST-II	MT/ST-IV	MODEL
Standard Centers between margins or about any point	Standard	None	None	TEXT INPUT FEATURES (cont'd)
Standard	Standard	None	None	Auto Input Underline
Standard	Standard	None	None	Auto Centering
Standard	Standard	None	None	Auto Line Spacing
Standard	Standard	None	None	Auto Page Numbering
Standard	Standard	None	None	Auto Headers / Footers
Standard	Standard	None	None	Auto Pagination
Standard	Standard	None	None	TEXT EDIT & MERGE FEATURES
Standard	Standard	None	None	Document Assembly / Merge
Stored text assembled & merged w/keyboard text	Standard	Stored text merged w/keyboard text	Stored text assembled & merged w/keyboard text	Search Capability
By document, cursor, character string	Standard	By skipping, C, W, L, P	By skipping C, W, L, P	Delete Capability
C, W, L, S, Para, Page, Document	Standard	C, W, L, P	C, W, L, P	Global Search & Replace
Standard	—	None	None	Block Move / Copy
Standard	Standard	None	None	Column Move / Delete
Manual or via keyboard programming	—	None	None	Auto Repagination
Standard	Standard	None	None	Auto Widow Adjust
Manual	Standard	None	None	Auto File Sort
Optional	—	None	None	Auto File Select
Standard, 25 levels	—	None	None	Auto Footnote Tie-In
Manual or via keyboard programming	—	None	None	Term Dictionary / Glossary
Optional	—	None	None	COMMUNICATIONS Availability
Full duplex, asynchronous 300 to 9600 baud	Available 9/81* Asynch 2741 at 134.5, 300, 1200 baud, teletype 110, 150, 200, 300***	None	None	Format & Speed
Opt. w/ COS-310	—	None	None	ARITHMETIC CAPABILITY
Optional DIBOL, FORTRAN, BASIC, Assembler	—	None	None	EDP CAPABILITY
User-generated w/ COS-310	—	None	None	Multiprogramming Compilers
OCR draft printer, photocomp RS-232 devices	IBM mag card reader/recorder, optional printer sharing (up to 3)	None	None	Applications Software
October 1976 USA	January 1981 USA	October 1964 USA	October 1964 USA	PERIPHERALS
\$21,606	\$7,895*** \$8,995**** \$10,375***** \$335*** \$360**** \$415*****	—	—	BACKGROUND INFORMATION
3rd party	\$275*** \$295**** (3-yr) \$340 (3-yr) ***** \$82*** \$80**** \$89***	—	—	First Delivery Date
Manufacturer	90 day, 800 # for central problem determination by system support center	—	—	Country of Manufacture
90 days parts & labor 3 days N/C operator training	—	—	—	Installed Base Estimate
	*Text Pack II **1200 baud, b5ynch, 2770/3780 2780 at 2400 baud ***11.5 cps printer / 1 dsk ****40 cps / 1 dsk *****60 cps / 2 dsk Software monthly license only	Product discontinued, chart listing for reference purposes	Product discontinued, chart listing for reference purposes	PRICING & TERMS Purchase
				Rental
				Lease
				Maintenance
				Warranty & Support
				REMARKS & OTHER FEATURES

### Standalone Word Processing Systems

COMPANY	IBM/OPD	IBM/OPD	IBM/OPD	IBM/OPD
<b>MODEL</b>	MC/ST	MC/ST-II	MC/ET	MC/A
<b>SYSTEM CONFIGURATION</b> Configuration	Card console, typewriter	Card console, typewriter	Card console, typewriter	Card console, typewriter
<b>Memory Size</b> Storage Media	— Magnetic card	8K Magnetic card	— Magnetic card	6K Magnetic card
<b>Storage Capacity</b> DISPLAY STATION FEATURES	50 lines/card	50 lines/card	50 lines/card	50 lines/card
<b>Screen Size &amp; Type</b> Display Buffer Memory Format & Capacity	Not Available Not Available Not Available	Not Available Not Available Not Available	Not Available Not Available Not Available	Not Available Not Available Not Available
<b>Character Generation</b> Cursor Positioning	Not Available Not Available	Not Available Not Available	Not Available Not Available	Not Available Not Available
<b>Vertical Scrolling</b> Horizontal Scrolling Page Scrolling Display Highlighting Character Size Control Character Pitch Display Character Spacing Display Line Spacing Display Line Justify Display Underscore Display Sub-Superscript Display Multi-Column Page Display Stored Form Recall/Display Control Code Display Format Statement Display	Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available	Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available	Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available	Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available
<b>PRINTER STATIONS FEATURES</b> Printer Type & Speed Printer Buffer Memory Character Pitch/Spacing Writing Line Width Carriage Paper Width First Line Forms Advance End-Of-Page Stop Justified Printout Sub-Superscript Printout Non-Adjust Printout Bidirectional Printout Simultaneous Printout	IBM Selectric 15.5 cps — 10, 12 13" 15.5" None None None None Optional Standard None None	IBM Selectric 15.5 cps — 10, 12 12.5" 15" None Standard None None Optional Standard None None	IBM Executive 15 cps None Proportional 13" 15.5" None Standard None None Optional Standard None None	IBM Selectric 15.5 cps None 10/12 12.5" 15" None Standard None None Optional Standard None None
<b>GEN. FUNCTIONAL FEATURES</b> Media Stored Format Default Format Statement Stored Multiple Formats Machine Dialog/Menu Prompt	None None None None	Optional* None None None	None None None None	Optional* None None None
<b>Forms Input</b> Control Character Printout Printout Queuing	Standard None None	Standard None None	Standard None None	Standard None None
<b>Revision &amp; Status Reporting</b> System Security	None None	None Optional communications lock	None —	None None
<b>TEXT INPUT FEATURES</b> Auto Carrier Return Auto Word Wraparound Auto Margin Adjust Temporary Margins	None None Standard Standard	None None Standard Standard	None None Standard Standard	None None Standard Standard
<b>Auto Decimal Tab</b> Hyphenation	None Manual, 6-char Hot Zone	Standard Manual or ghost hyphens, 6-char Hot Zone	Standard Manual or ghost hyphens, 6-char Hot Zone	Standard Manual or ghost hyphens, 6-char Hot Zone
<b>REMARKS &amp; OTHER FEATURES</b>		*Requires Format option, \$400		*Requires Format option, \$400

### Standalone Word Processing Systems

IBM/OPD	IBM/OPD	IBM/OPD	IBM/OPD	COMPANY
MC/ST	MC/ST-II	MC/ET	MC/A	<b>MODEL</b>
None None	Standard Standard	Standard Standard	Standard Standard	<b>TEXT INPUT FEATURES (cont'd)</b> Auto Input Underline Auto Centering Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination TEXT EDIT & MERGE FEATURES Document Assembly/Merge
None None None None	None None None Standard	None None None None	None None None None	<b>Search Capability</b> <b>Delete Capability</b> <b>Global Search &amp; Replace</b> <b>Block Move/Copy</b> <b>Column Move/Delete</b> <b>Auto Repagination</b> <b>Auto Widow Adjust</b> <b>Auto File Sort</b> <b>Auto File Select</b> <b>Auto Footnote Tie-In</b> <b>Term Dictionary/Glossary</b>
Stored text merged with keyboard text	Stored text merged w/keyboard text	Stored text merged w/keyboard text	Stored text merged w/keyboard text	<b>COMMUNICATIONS</b> Availability Format & Speed
By skipping C, W, L, P C, W, L	By skipping C, W, L, P C, W, L	By skipping C, W, L, P C, W, L	By skipping C, W, L, P C, W, L	<b>ARITHMETIC CAPABILITY</b> EDP CAPABILITY Multiprogramming Compilers <b>Applications Software</b> <b>PERIPHERALS</b>
None	None	None	None	<b>BACKGROUND INFORMATION</b> First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase Rental Lease Maintenance Warranty & Support
None	None	None	None	<b>REMARKS &amp; OTHER FEATURES</b>
None	None	None	None	
None	Standard, operator controlled scan	None	None	
None	None	None	None	
None	Standard	None	None	
None	None	None	None	
None	Standard, operator controlled scan	None	None	
None	None	None	None	
None	None	None	None	
Optional* IBM 2741-compatible, 14.8 cps	Optional IBM 2770-compatible, to 2400 bps	None	None	
None	None	None	None	
None	None	None	None	
None	None	None	None	
None	None	None	None	
IBM OS/6 & 6640 printer	IBM OS/6 & 6640 printer	IBM OS/6 & 6640 printer	IBM OS/6 & 6640 printer	
October 1969 USA	April 1973 USA 35,000	April 1972 USA 9,000	September 1975 USA 7,000	
\$4,320	\$7,580	\$4,710	\$6,370	
\$219*/yr	\$342*/yr	\$262*/yr	\$289*/yr	
\$193 (2-yr)	\$301 (2-yr)	\$231 (2-yr)	\$254 (2-yr)	
\$552/yr	\$612/yr	\$612/yr	\$567/yr	
90 day warranty, N/C operator training, MSR support	90 day warranty, N/C operator training, MSR support	90 day warranty, MSR support	90 day warranty, N/C operator training, MSR support	
*CMC/ST (w/communi- cations) \$6,080 **Includes maintenance	*Includes maintenance	*Includes maintenance	*Includes maintenance	

### Standalone Word Processing Systems

COMPANY	IBM/OPD	IBM/OPD	IBM/GSD	Interactive Computer*
<b>MODEL</b>	OS 6/440 & 6/442	OS 6/450 & 6/452	WP/32	System 900
<b>SYSTEM CONFIGURATION</b>				
<b>Configuration</b>	Keyboard/CRT/diskette console, printer	Keyboard/CRT/media console, printer	Keyboard/CRT/media console/printer	Keyboard/CRT, diskette console, printer
<b>Memory Size</b>	8K	8K	16K to 32K	48K 56K or 64K
<b>Storage Media</b>	Diskette	Magnetic card & diskette	Card/diskette/disk	Dual diskette
<b>Storage Capacity</b>	274K chars./diskette	250K disk./5K card	5K/250K/13.7M chars	516K chars./diskette
<b>DISPLAY STATION FEATURES</b>				
<b>Screen Size &amp; Type</b>	9" x 6" CRT	9" x 6" CRT	7" diagonal CRT	12" diagonal CRT
<b>Display Buffer Memory</b>	1024 chars	1024 chars	2K char	2K char
<b>Format &amp; Capacity</b>	6 lines x 83 chars (498 chars total)	6 lines x 83 chars (498 chars total)	6 lines x 40 chars (480 chars total)	21 lines x 96 chars (2016 chars total)
<b>Character Generation</b>	Left, right along fixed line	Left, right along fixed line	7 x 9 dot matrix	7 x 9 dot matrix
<b>Cursor Positioning</b>	Standard	Standard	Left, right, up, down, home	Left, right, up, down, home
<b>Vertical Scrolling</b>	Standard	Standard	None	Standard
<b>Horizontal Scrolling</b>	Standard	Standard	None	Standard
<b>Page Scrolling</b>	Standard	Standard	None	Standard
<b>Display Highlighting</b>	None	None	None	Standard
<b>Character Size Control</b>	None	None	None	Standard
<b>Character Pitch Display</b>	Standard	Standard	None	Standard
<b>Character Spacing Display</b>	Standard	Standard	None	Standard
<b>Line Spacing Display</b>	Double space only	Double space only	None	Standard
<b>Line Justify Display</b>	Standard	Standard	None	Standard
<b>Underscore Display</b>	Standard	Standard	None	Standard
<b>Sub-Superscript Display</b>	Code only	Code only	None	Standard
<b>Multi-Column Page Display</b>	None	None	None	Standard
<b>Stored Form Recall/Display</b>	Standard	Standard	Standard	Standard
<b>Control Code Display</b>	Limited	Limited	Standard	Standard
<b>Format Statement Display</b>	Standard	Standard	None	Standard
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	IBM ink jet 92 cps*	IBM ink jet 92 cps*	Line printer 50/100 lpm	Diablo daisy 45 cps**
<b>Printer Buffer Memory</b>	7455 chars	7455 chars	10	To 12
<b>Character Pitch/Spacing</b>	10/12 proportional	10/12 proportional	13 2"	13"
<b>Writing Line Width</b>	14****	14****	15"	15"
<b>Carriage Paper Width</b>	Standard	Standard	Standard	Standard
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End Of Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub-Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	None**	None**
<b>Bidirectional Printout</b>	Standard****	Standard****	None	None
<b>Simultaneous Printout</b>	Standard	Standard	None	Standard
<b>GEN. FUNCTIONAL FEATURES</b>				
<b>Media Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	None	Standard
<b>Machine Dialog/Menu Prompt</b>	"Frames" display operator options	"Frames" display operator options	Standard	Standard
<b>Forms Input</b>	Standard	Standard	Standard	Standard
<b>Control Character Printout</b>	None	None	Standard	None
<b>Printout Queuing</b>	Up to 4 jobs	Up to 4 jobs	Standard	Standard
<b>Revision &amp; Status Reporting</b>	None	None	Edit change list shows document revisions	Standard
<b>System Security</b>	Keylock & password for communications	Keylock & password for communications	None	Optional
<b>TEXT INPUT FEATURES</b>				
<b>Auto Carriage Return</b>	None	None	None	Standard
<b>Auto Word Wraparound</b>	None	None	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Left only	Standard
<b>Temporary Margins</b>	Left only	Left only	Left only	Standard
<b>Auto Decimal Tab</b>	Standard	Standard	None	None
<b>Hyphenation</b>	Manual, adjustable (3 to 12 char.) Hot Zone	Manual, adjustable (3 to 12 char.) Hot Zone	Manual, adjustable Hot Zone	Manual, discretionary hyphens
<b>REMARKS &amp; OTHER FEATURES</b>	**OS 6/442 has 55-cps Qume printer **On Qume printer **13 1" for 6/442 **15" for 6/442 ****On Qume printer	**OS 6/452 has 55-cps Qume printer **On Qume printer **13 1" for 6/452 **15" for 6/452 ****On Qume printer	Word processing configuration of IBM System/32 minicomputer	*Marketed in the USA exclusively by Inter Comp Sys., mgr by MCM **180 cps dot matrix printer & 300 lpm line printers also avail. These printers have bidirectional printout

### Standalone Word Processing Systems

IBM/OPD	IBM/OPD	IBM/GSD	Interactive Computer	COMPANY
OS 6/440 & 6/442	OS 6/450 & 6/452	WP/32	System 900	MODEL
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>TEXT INPUT FEATURES (cont'd)</b>
<b>About any point</b>	<b>About any point</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto Input Underline</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto Centering</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto Line Spacing</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto Page Numbering</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto Headers/Footers</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto Pagination</b>
<b>Stored text assembled &amp; merged w/keyboarded text to form new document*</b>	<b>Stored paragraphs merged w/keyboarded text to form new document*</b>	<b>Stored text assembled &amp; merged w/keyboarded text</b>	<b>Stored text assembled &amp; merged w/keyboarded text</b>	<b>TEXT EDIT &amp; MERGE FEATURES</b>
<b>By job no., para no. &amp; cursor pos., char stg opt **</b>	<b>By job &amp; paragraph no. &amp; cursor pos., char stg opt **</b>	<b>By document name &amp; char string</b>	<b>By document &amp; page no. &amp; file name</b>	<b>Document Assembly/Merge</b>
<b>C, W, L</b>	<b>C, W, L, P, document</b>	<b>C, W, L, P, document</b>	<b>C, W, L, S, P or specified block</b>	<b>Search Capability</b>
<b>Optional**</b>	<b>Optional**</b>	<b>Standard</b>	<b>Keyword global replace</b>	<b>Delete Capability</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Global Search &amp; Replace</b>
<b>None</b>	<b>None</b>	<b>Standard</b>	<b>Standard</b>	<b>Block Move/Copy</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>None</b>	<b>Column Move/Delete</b>
<b>None</b>	<b>None</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto Repagination</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto Widow Adjust</b>
<b>Operator controlled scan</b>	<b>Operator controlled scan</b>	<b>Standard</b>	<b>None</b>	<b>Auto File Sort</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto File Select</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Auto Footnote Tie-In</b>
<b>None</b>	<b>None</b>	<b>Standard</b>	<b>None</b>	<b>Term Dictionary/Glossary</b>
<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>None</b>	<b>COMMUNICATIONS</b>
<b>Optional</b>	<b>Optional</b>	<b>Optional \$3 600</b>	<b>Optional</b>	<b>Availability</b>
<b>Optional Bysynchronous EBCDIC, ASCII &amp; TEXTCODE at 1200 to 2400 baud</b>	<b>Optional Bysynchronous EBCDIC, ASCII &amp; TEXTCODE at 600 to 2400 baud</b>	<b>IBM BSC or SDLC at 1200 to 7200 bps</b>	<b>IBM BSC or SDLC at 110 to 4800 baud</b>	<b>Format &amp; Speed</b>
<b>None</b>	<b>None</b>	<b>Full</b>	<b>Full</b>	<b>ARITHMETIC CAPABILITY</b>
<b>None</b>	<b>None</b>	<b>None</b>	<b>None</b>	<b>EDP CAPABILITY</b>
<b>None</b>	<b>None</b>	<b>RPG</b>	<b>APL</b>	<b>Multiprogramming</b>
<b>None</b>	<b>None</b>	<b>Many packages avail.</b>	<b>Full accounting, inventory, financial modeling*</b>	<b>Compilers</b>
<b>IBM Mag Card series, other OS 6 products</b>	<b>IBM Mag Card series, other OS 6 products</b>	<b>IBM Mag card typewriters, 6640 Ink Jet Printer 6670 Information Distributor</b>	<b>Line printer, punch card reader, RS-232 devices**</b>	<b>Applications Software</b>
<b>March 1977***</b>	<b>March 1977***</b>	<b>November 1976</b>	<b>January 1979,</b>	<b>PERIPHERALS</b>
<b>USA</b>	<b>USA</b>	<b>USA</b>	<b>Canada</b>	<b>First Delivery Date</b>
<b>\$19 200</b>	<b>\$21 670 (6/450)</b>	<b>\$38,380*</b>	<b>200</b>	<b>Country of Manufacture</b>
<b>\$12 900 (6/442)</b>	<b>\$15 370 (6/452)</b>	<b>\$875**</b>	<b>—</b>	<b>Installed Base Estimate</b>
<b>\$856</b>	<b>\$974</b>	<b>—</b>	<b>—</b>	<b>PRICING &amp; TERMS</b>
<b>\$615</b>	<b>\$733</b>	<b>—</b>	<b>—</b>	<b>Purchase</b>
<b>\$753 (2-yr.), \$719 (3-yr.)</b>	<b>\$857 (2-yr.), \$818 (3-yr.)</b>	<b>—</b>	<b>From \$450 to \$500/mo. (5-yr.)</b>	<b>Rental</b>
<b>\$541 (2-yr.), \$517 (3-yr.)</b>	<b>\$645 (2-yr.), \$616 (3-yr.)</b>	<b>—</b>	<b>Approx \$150/mo</b>	<b>Lease</b>
<b>\$21 60 yr</b>	<b>\$2,304 yr</b>	<b>—</b>	<b>—</b>	<b>Maintenance</b>
<b>\$1548 yr</b>	<b>\$1,680 yr</b>	<b>—</b>	<b>—</b>	<b>Warranty &amp; Support</b>
<b>90 days, MSR support</b>	<b>90 days, N. C. operator training, MSR support</b>	<b>—</b>	<b>90 days parts &amp; labor, 1 day training</b>	<b>REMARKS &amp; OTHER FEATURES</b>
<b>*Unattended assy. of doc's from all stored or stored plus original text via optional Processing Feature</b>	<b>*Unattended assy. of doc's from all stored or stored plus original text via optional Processing Feature</b>	<b>*Basic system w/ 50 lpm line printer &amp; 3.2 Mb disk storage</b>	<b>*Mailing list, list maint., cost acct. &amp; others</b>	<b>**Also mark sense reader</b>
<b>**Via Processing Feature ***July 1978 6/442</b>	<b>**Via Processing Feature ***July 1978 for 6/452</b>	<b>**Rental prices include maintenance</b>	<b>**Basic system w/ 50 lpm line printer &amp; 3.2 Mb disk storage</b>	

## Standalone Word Processing Systems

COMPANY	IBM/OPD	IBM/OPD	IBM/OPD	IBM/OPD
<b>MODEL</b>	6240	Memory Typewriter 50/100	OS 6/420	OS 6/430
<b>SYSTEM CONFIGURATION Configuration</b>	Typewriter, card console	Typewriter	Keyboard/CRT/media console	Keyboard/CRT/media console
<b>Memory Size Storage Media</b>	8K Magnetic card	4K Internal memory belt	8K Diskette	8K Magnetic card & diskette
<b>Storage Capacity DISPLAY STATION FEATURES</b>	5K chars /card	200K, 400K chars	274K chars /diskette	274K disk /5K card
<b>Screen Size &amp; Type</b>	Not Available	Not Available	9" x 6" CRT 1024 characters	9" x 6" CRT 1024 characters
<b>Display Buffer Memory</b>	Not Available	Not Available	6 lines x 83 characters (498 chars total)	6 lines x 83 characters (498 chars total)
<b>Format &amp; Capacity</b>	Not Available	Not Available	Left, right, along fixed line	Left, right, along fixed line
<b>Character Generation</b>	Not Available	Not Available	Standard	Standard
<b>Cursor Positioning</b>	Not Available	Not Available	None	None
<b>Vertical Scrolling</b>	Not Available	Not Available	3, 68-character segments	3, 68-character segments
<b>Horizontal Scrolling</b>	Not Available	Not Available	None	None
<b>Page Scrolling</b>	Not Available	Not Available	Flashing & Brightened Ch	Flashing & Brightened Ch
<b>Display Highlighting</b>	Not Available	Not Available	None	None
<b>Character Size Control</b>	Not Available	Not Available	Standard	Standard
<b>Character Pitch Display</b>	Not Available	Not Available	Standard	Standard
<b>Character Spacing Display</b>	Not Available	Not Available	Double space only	Double space only
<b>Line Spacing Display</b>	Not Available	Not Available	Standard	Standard
<b>Line Justify Display</b>	Not Available	Not Available	Standard	Standard
<b>Underscore Display</b>	Not Available	Not Available	Codes only	Codes only
<b>Sub / Superscript Display</b>	Not Available	Not Available	None	None
<b>Multi-Column Page Display</b>	Not Available	Not Available	Standard	Standard
<b>Stored Form Recall / Display</b>	Not Available	Not Available	Limited	Limited
<b>Control Code Display</b>	Not Available	Not Available	Standard	Standard
<b>Format Statement Display</b>	Not Available	Not Available	Not Available	Not Available
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Qume daisy 55 cps	IBM Selectric 15.5 cps	Not Available	Not Available
<b>Printer Buffer Memory</b>	None	None	Not Available	Not Available
<b>Character Pitch / Spacing</b>	10 / 12 13.2" 15"	10 / 12 12.5" 15"	Not Available	Not Available
<b>Writing Line Width</b>	None	None	Not Available	Not Available
<b>Carnage Paper Width</b>	None	None	Not Available	Not Available
<b>First Line Forms Advance</b>	Standard	Standard	Not Available	Not Available
<b>End-Of-Page Stop</b>	None	None	Not Available	Not Available
<b>Justified Printout</b>	None	None	Not Available	Not Available
<b>Sub / Superscript Printout</b>	None	None	Not Available	Not Available
<b>Non-Adjust Printout</b>	Standard	None	Not Available	Not Available
<b>Bidirectional Printout</b>	None	None	Not Available	Not Available
<b>Simultaneous Printout</b>	None	None	Not Available	Not Available
<b>GEN FUNCTIONAL FEATURES</b>				
<b>Media Stored Format</b>	Standard	None	Standard	Standard
<b>Default Format Statement</b>	Standard	None	Standard	Standard
<b>Stored Multiple Formats</b>	None	None	"Frames" display operator options	"Frames" display operator options
<b>Machine Dialog / Menu Prompt</b>	None	None	Standard	Standard
<b>Forms Input</b>	None	None	None	None
<b>Control Character Printout</b>	None	None	None	None
<b>Printout Queuing</b>	None	None	None	None
<b>Revision &amp; Status Reporting</b>	None	None	None	None
<b>System Security</b>	Optional communications lock	Keylock option, \$35	Keylock & password for communications	Keylock & password for communications
<b>TEXT INPUT FEATURES</b>				
<b>Auto Corner Return</b>	None	None	None	None
<b>Auto Word Wraparound</b>	None	None	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Left only	Left only
<b>Temporary Margins</b>	None	None	None	None
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard
<b>Hyphenation</b>	Manual, 6-char Hot Zone	Standard or ghost hyphens, 6-char Hot Zone	Standard, adjustable (3 to 12 character) Hot Zone	Standard, adjustable (3 to 12 character) Hot Zone
<b>REMARKS &amp; OTHER FEATURES</b>				

## Standalone Word Processing Systems

IBM/OPD	IBM/OPD	IBM/OPD	IBM/OPD	COMPANY
6240	Memory Typewriter 50/100	OS 6/420	OS 6/430	MODEL
Standard Standard, about any point	Standard Standard	Standard About any point	Standard About any point	<b>TEXT INPUT FEATURES (cont'd)</b> Auto Input Underline Auto Centering
None None None None	None None None None	Standard Standard Standard Standard	Standard Standard Standard Standard	Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination TEXT EDIT & MERGE FEATURES Document Assembly/Merge
Stored text merged w/keyboard text	Stored text merged w/keyboard text	Stored text assembled & merged w/keyboard text to form new document*	Stored text assembled & merged w/keyboard text to form new document*	Search Capability
By skipping C, W, L, P	By skipping C, W, L, P	By job no., para., no. & cursor pos., char. string C, W, L	By job no., para., no. & cursor pos., char. string C, W, L	Delete Capability
C, W, L, P	Backspace correction by char None	Standard	Optional**	Global Search & Replace
None	None	Standard	Standard	Block Move/Copy
None	None	None	None	Column Move/Delete
None	None	Standard	Standard	Auto Repagination
None	None	Operator controlled scan	Operator controlled scan	Auto Widow Adjust
Standard	None	Standard	Standard	Auto File Sort
None	None	Standard	Standard	Auto File Select
None	None	None	None	Auto Footnote Tie-In
None	None	None	Standard	Term Dictionary/Glossary
Optional \$3,750 IBM BSM, 1200 to 2400 bps	None	Optional Bisynchronous EBCDIC, ASCII & TEXCODE at 1200 to 2400 baud	Optional Bisynchronous EBCDIC, ASCII & TEXCODE at 1200 to 2400 baud	COMMUNICATIONS Availability Format & Speed
None	None	None	None	ARITHMETIC CAPABILITY EDP CAPABILITY
None	None	None	None	Multiprogramming Compilers
None	None	None	None	Applications Software
None	None	None	None	PERIPHERALS
IBM 6640 ink jet printer, other OS 6 products	None	IBM Mag Card series, other OS 6 products	IBM Mag Card series, other OS 6 products	BACKGROUND INFORMATION First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
December 1977 USA	1974 (50), 1977 (100) USA	December 1978 USA	March 1977 USA	Rental
\$8,800	\$4,200 (50) \$4,500 (100)	\$7,050	\$8,770	\$460
\$412	\$198 \$225	\$375	\$405 (2-yr.) \$386 (3-yr.) \$1,080/yr	Lease
\$363 (2-yr.)	\$174 (2-yr.) \$198 (2-yr.)	\$330 (2-yr.) \$315 (3-yr.) \$1,032/yr		Maintenance
\$948/yr	\$33/mo \$35/mo			Warranty & Support
90 day warranty, N.C operator training, MSR support	90 day warranty, N.C operator training, MSR support	90 day warranty, N.C operator training, MSR support	90 days, MSR support	REMARKS & OTHER FEATURES
	An MT/50 can be upgraded to a MT/100, \$600	*Also features unattended assembly of documents from all stored & stored plus original text via standard Processing Feature	*Unattended assy of doc's from all stored or stored plus original text via optional Processing Feature **Via Processing Feature	

## Standalone Word Processing Systems

COMPANY	Interactive Computer*	Lanier	Lanier	Lanier
MODEL	System 800	LTE-1	LTE-2S/2D	No Problem
SYSTEM CONFIGURATION Configuration	Keyboard/CRT, diskette console, printer	Keyboard/CRT, diskette console, printer	Keyboard/CRT, diskette console, printer	Integral keyboard/CRT/diskette console, printer
Memory Size	48K, or 56K	—	—	32K to 96K
Storage Media	Dual diskette	Diskette	Single* or dual diskette	Single or dual mini-diskette** 70K chars & 300K chars**
Storage Capacity	516K chars/diskette	300K char/diskette	300K chars/diskette	—
DISPLAY STATION FEATURES				
Screen Size & Type	12" diagonal CRT 2K char	12" diagonal CRT 63 or 95 line	14" diagonal CRT 63 or 95 line	14" diagonal CRT 16K
Display Buffer Memory Format & Capacity	21 lines x 96 chars (2016 chars total) 7 x 9 dot matrix	24 lines x 80 chars or 15 lines x 128 chars Dot matrix	24 lines x 80 chars or 15 lines x 128 chars Dot matrix	28 lines x 80 chars (2,240 chars total) 7 x 12 dot matrix
Character Generation	Left, right, up, down, home	Left, right, up, down, home	Left, right, up, down, home	Left, right, up, down, home
Cursor Positioning	Standard	Up to 95 lines	Up to 95 lines	Standard to 254 chars
Vertical Scrolling	None	Up to 128 chars	Standard	Standard
Horizontal Scrolling	Standard	None	Flashing	None
Page Scrolling	None	None	None	None
Display Highlighting	Standard	None	None	None
Character Size Control	None	None	None	None
Character Pitch Display	None	None	None	None
Character Spacing Display	None	Standard	Standard	Standard
Line Spacing Display	Standard	Standard	Standard	Standard
Line Justify Display	Standard	Standard	Standard	Standard
Underscore Display	None	Standard	Standard	Standard
Sub/Superscript Display	Standard	Standard	Standard	Standard
Multi-Column Page Display	Standard	Standard	Standard	Standard
Stored Form Recall/Display	Standard	Standard	Standard	Standard
Control Code Display	Standard	Standard	Standard	Standard
Format Statement Display	Standard	Standard	Standard	Standard
PRINTER STATIONS FEATURES				
Printer Type & Speed	Diablo daisy 45 cps**	Daisy wheel 45 cps	Qume Sprint III 45 cps	Qume Sprint 3, 45 cps
Printer Buffer Memory	—	—	—	8K
Character Pitch/Spacing	To 12	10/12	6/8/10/12/15	6/8/10/12/15
Writing Line Width	13"	13"	13" or 26"	13" or 26"
Carnage Paper Width	15"	15"	15" or 26"	15" or 26"
First Line Forms Advance	Standard	Standard	Standard	Standard
End-Of-Page Stop	Standard	Standard	Standard	Standard
Justified Printout	Standard	Standard	Standard	Standard
Sub/Superscript Printout	Standard	Standard	Standard	Standard
Non-Adjust Printout	Standard	Standard	Standard	Standard
Bidirectional Printout	None**	Standard	Standard	Standard
Simultaneous Printout	None	Standard	Standard	Standard
GEN. FUNCTIONAL FEATURES				
Media-Stored Format	Standard	Standard	Standard	Standard
Default Format Statement	Standard	Standard	Standard	Standard
Stored Multiple Formats	Standard	None	Prompts & status messages displayed	Prompts & status messages displayed
Machine Dialog/Menu Prompt	Standard	None	Standard	Standard
Forms Input	Standard	Standard	None	None
Control Character Printout	Standard	None	Print from display buffer or diskette	Print from display buffer or diskette
Printout Queuing	None	Status messages on display	Status messages on display	Status messages on display
Revision & Status Reporting	Standard	Keylock (N/C option)	Keylock (N/C option)	Keylock (N/C option)
System Security	Optional	—	—	—
TEXT INPUT FEATURES				
Auto Carriage Return	Standard	Standard	Standard	Standard
Auto Word Wraparound	Standard	Standard	Standard	Standard
Auto Margin Adjust	Standard	Standard	Standard	Standard
Temporary Margins	Standard	Standard	Standard	Standard
Auto Decimal Tab	None	Standard	Standard	Standard
Hyphenation	Manual, discretionary hyphens	Manual	Manual	Semi-automatic, operator scan
REMARKS & OTHER FEATURES	*Marketed in the USA exclusively by Inter Comp Sys. mgr by MCM **180 cps dot matrix printer & 300 lpm line printers also avail. These printers have bidirectional printout	Boldface printing avail	*Second diskette drive can be added at any time	*Second diskette drive can be added at any time **Extended Disk

## Standalone Word Processing Systems

Interactive Computer	Lanier	Lanier	Lanier	COMPANY
System 800	LTE 1	LTE 2S/2D	No Problem	MODEL
Standard	Standard	Standard	Standard	TEXT INPUT FEATURES (cont'd)
Standard	Multiple lines centered simultaneously	Multiple lines centered simultaneously	Multiple lines centered simultaneously	Auto Input Underline
Standard	Standard	Standard	Standard	Auto Centering
Standard	Standard	Standard	Standard	Auto Line Spacing
Standard	Standard	Standard	Standard	Auto Page Numbering
Standard	Standard	Standard	Standard	Auto Headers/Footers
Standard	Standard	Standard	Standard	Auto Pagination
Standard	Standard	Standard	Standard	TEXT EDIT & MERGE FEATURES
Standard	Standard	Standard	Standard	Document Assembly/Merge
Stored text assembled & merged w/keyboard text	Stored text merged w/keyboard text to form new document	Stored text assembled from each diskette (2D only) & merged w/key- boarded text	Stored text assembled & merged w/keyboard text to form new document	Search Capability
By document & page no., & file name C, W, L, S, P or specified block	By doc name, page no & cursor position C, W, L, P display contents	By doc name, page no. & cursor position C, W, L, P remainder of page, spec block Optional	By doc name, page no & cursor position C, W, L, P remainder of page, spec block Optional	Delete Capability
Keyword global replace	None	None	None	Global Search & Replace
Standard	Standard	Standard	Standard	Block Move/Copy
None	None	Standard	Standard	Column Move/Delete
Standard	Operator defines no of lines per page*	Standard, oper defines no of lines per page*	Std. oper defines no of lines per page, doc is indexed paginated & numbered	Auto Repagination
None	None	Standard	Standard	Auto Widow Adjust
Standard	Background alphanumeric sorts	Standard alphanumeric	Optional	Auto File Sort
Standard	Standard	None	Optional	Auto File Select
None	None	Standard	Semi-automatic	Auto Footnote Tie-In
None	None	None	None	Term Dictionary/Glossary
Optional \$1,800 Half-duplex async IBM 2741 & 2780 com- pat. 300 to 2400 baud	Optional \$1,800 Half-duplex async IBM 2741 & 2780 com- pat. 300 to 2400 baud	Optional \$1,800 Half-duplex async IBM 2741 & 2780 com- pat. 300 to 2400 baud**	Optional Telex, TTY, ASCII, 3780	COMMUNICATIONS Availability
Full	None	None	Financial programs*	Format & Speed
Standard	None	None	None	ARITHMETIC CAPABILITY
Standard	None	None	None	EDP CAPABILITY
Full accounting inventory financial modeling* Line printer, punch card, reader, RS 232 devices**	None	None	16 optional packages avail	Multiprogramming
OCR	OCR	OCR photocopier inter- face, shared printer opt.***	Shared printer option, OCR photocomp	Compilers
November 1976 Canada 300	March 1976 USA	July 1977 USA	October 1977 USA	Applications Software
Approx \$16,000	\$15,900	\$16,400 (2D) \$14,900 (2S) \$455 (18 mo.) \$520 (2 yr.) \$485 (2 yr.) Third party leasing agents \$900/year \$900/year	\$10,990 (single disk)** \$11,990 (dual disk)** \$455 (18 mo.) \$490 (18 mo.) \$430 (24 mo.) \$465 (24 mo.) \$750/year	PERIPHERALS
From \$375 to \$400 mo (5 yr.) Approx \$150/mo	Third party leasing agents	3 months, N/C operator training	90 day warranty, N/C operator training	BACKGROUND INFORMATION
90 days parts & labor, 1 day training	3 months, N/C operator training	3 months, N/C operator training	3 months, N/C operator training	First Delivery Date
*Mailing list, list maint, cost acct. & others **Also mark sense reader	*Document is paginated, indexed & numbered	*Document is indexed, paginated & numbered **Also TTY, ASCII ***Cable connection for 2 systems to share a printer, \$300	*Optional, \$550-\$750, \$1,250 **Marketed as Solution Series, Levels I, II, III, IV depending on level one. Avail w/o printer, cable connect for shared printer, XD single disk, \$6,000, XD dual disk, \$7,500	Country of Manufacture
				Installed Base Estimate
				PRICING & TERMS
				Purchase
				Rental
				Lease
				Maintenance
				Warranty & Support
				REMARKS & OTHER FEATURES

Standalone Word Processing Systems

COMPANY	Lanier	Lexitron	Lexitron	Lexitron
<b>MODEL</b>	No Problem LC	911/912/913	921/922	942
<b>SYSTEM CONFIGURATION</b>	Keyboard/CRT, diskette console, printer	Keyboard/CRT/cassette console, printer	Keyboard/CRT, cassette console, printer	Keyboard/CRT/cassette console, printer
<b>Memory Size</b>	—	—	—	—
<b>Storage Media</b>	Single or dual diskette*	Cassette or mini-diskette	Cassette or mini-diskette	Dual Cassette or mini-diskette
<b>Storage Capacity</b>	300K chars / diskette	1M chars /cassette*	1M chars /cassette*	1M chars /cassette*
<b>DISPLAY STATION FEATURES</b>				
<b>Screen Size &amp; Type</b>	14" diagonal CRT	8 1/2" x 11" CRT	8 1/2" x 11" CRT	8 1/2" x 11" CRT
<b>Display Buffer Memory</b>	63 or 95 line	8K chars	8K chars	8K chars
<b>Format &amp; Capacity</b>	24 lines x 84 chars or 15 lines x 128 chars	66 lines x 85 chars (5130 total)	66 lines x 102 chars* (6732 chars total)	66 lines x 102 chars** (6732 chars total)
<b>Character Generation</b>	Dot matrix	Stroke writing	Stroke writing	Stroke writing
<b>Cursor Positioning</b>	Left, right, up, down, home	Left, right, return	Left, right, return	Left, right, return
<b>Vertical Scrolling</b>	Up to 95 lines	Standard	Standard	Standard
<b>Horizontal Scrolling</b>	Up to 128 chars	None	None	None
<b>Page Scrolling</b>	Standard	Standard	Standard	Standard
<b>Display Highlighting</b>	Flashing	None	None	None
<b>Character Size Control</b>	None	None	None	None
<b>Character Pitch Display</b>	Standard	Standard	Standard	Standard
<b>Character Spacing Display</b>	None	Standard	None	None
<b>Line Spacing Display</b>	Standard	Single & double	Single & double	Single & double
<b>Line Justify Display</b>	Standard	Standard	None	Standard
<b>Undercore Display</b>	Standard	Standard	Standard	Standard
<b>Sub / Superscript Display</b>	Standard	None	Optional	Standard
<b>Multi-Column Page Display</b>	Standard	None	None	None
<b>Stored Form Recall / Display</b>	Standard	None	None	None
<b>Control Code Display</b>	Standard	None	None	None
<b>Format Statement Display</b>	Standard	None	None	None
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Qume Sprint 3, 45 cps	IBM Executive 15.5 cps**	Daisy wheel 45 cps***	Daisy wheel 45 cps
<b>Printer Buffer Memory</b>	—	—	4K	4K
<b>Character Pitch/Spacing</b>	6/8/10/12/15	Proportional	10/12	10/12
<b>Writing Line Width</b>	13" or 26"	12 1/2" or 16"	13"	13"
<b>Carnage Paper Width</b>	15" or 28"	12 1/2" or 16"	15"	15"
<b>First Line Forms Advance</b>	Standard	None	None	None
<b>End-Of-Page Stop</b>	Standard	None	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	None	Standard
<b>Sub / Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	None	None	Standard	Standard
<b>Simultaneous Printout</b>	Standard	Standard	Standard	Standard
<b>GEN. FUNCTIONAL FEATURES</b>				
<b>Media-Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Margins only	Margins only	Margins only
<b>Stored Multiple Formats</b>	Standard	None	None	None
<b>Machine Dialog / Menu Prompt</b>	Prompts & status messages displayed	Prompts & status messages displayed	Prompts & status messages displayed	Prompts & status messages displayed
<b>Forms Input</b>	Standard	None	None	None
<b>Control Character Printout</b>	Standard	None	None	None
<b>Printout Queuing</b>	Print from display buffer or diskette	None	None	None
<b>Revision &amp; Status Reporting</b>	Status messages on display	None	None	None
<b>System Security</b>	Keylock (N/C option)	None	None	None
<b>TEXT INPUT FEATURES</b>				
<b>Auto Corner Return</b>	Standard	None	None	None
<b>Auto Word Wraparound</b>	Standard	None	None	None
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	None	None	None
<b>Auto Decimal Tab Hyphenation</b>	Standard	Optional	Standard	Standard
	Manual	Manual	Manual	Manual
<b>REMARKS &amp; OTHER FEATURES</b>	*Second diskette drive can be added at any time	*160K chars /diskette **912 is printer-less. 913 has a Qume high-speed proportional printer	*160K chars /diskette **66 lines x 122 chars (8052 total), optional ***Model 922 is printer-less	*160K chars /diskette **66 lines x 122 chars optional (8052 total)

Standalone Word Processing Systems

Typewriters

COMPANY	Lanier	Lexitron	Lexitron	Lexitron	COMPANY
<b>MODEL</b>	No Problem LC	911/912/913	921/922	942	MODEL
<b>SYSTEM CONFIGURATION</b>	Standard Multiple lines centered simultaneously Standard Standard Standard	None None Standard None None Standard	None None Standard	Standard w/Text Assembly w/Text Assembly Standard	TEXT INPUT FEATURES (cont'd) Auto Input Underline Auto Centering
<b>Memory Size</b>	Standard	By page number & cursor position C. L. document	By page number & cursor position C. L. document	None	Auto Line Spacing Auto Page Numbering Auto Headers /Footers Auto Pagination TEXT EDIT & MERGE FEATURES Document Assembly/Merge
<b>Storage Media</b>	Standard	Operator defines no of lines per page**	Operator defines no of lines per page**	None	Stored paras. or pages assembled & merged w/keyboard text
<b>Storage Capacity</b>	Standard alphanumeric by page* Optional	None	None	None	Stored text assembled & merged w/keyboard text
<b>DISPLAY STATION FEATURES</b>					Search Capability
<b>Screen Size &amp; Type</b>	Optional	None	None	None	Delete Capability
<b>Display Buffer Memory</b>	None	Optional Half-duplex asynch IBM 2741 & 2780 compat. 300 to 2400 baud Financial Program	Optional Programmable IBM 2741 ASCII, PT-PT, 2780, TWX/Telex	Optional Programmable, IBM 2741, ASCII, PT-PT, 2780, TWX/Telex	Global Search & Replace
<b>Format &amp; Capacity</b>	None	None	None	None	Block Move/Copy
<b>Character Generation</b>	None	Mag card adaptor	OCR, mag card adaptor	OCR, mag card adaptor	Column Move/Delete
<b>Cursor Positioning</b>	None	1972 USA	1974 USA	1977 USA	Auto Repagination
<b>Vertical Scrolling</b>	None	USA	—	—	Auto Widow Adjust
<b>Horizontal Scrolling</b>	None	\$16,400 (dual disk) \$14,900 (single disk) \$615 (24 mo.) \$580 (24 mo.)	\$5,000 (911)* \$535 (911) \$339 (911)	\$12,500 (921) \$11,950 (922) \$560 \$429 \$285 (5-yr) \$255 (5-yr) \$780/yr	Auto File Sort
<b>Page Scrolling</b>	None	\$900/yr	\$65/mo (911/913) \$50/mo (912)	\$17,950	Auto File Select
<b>Display Highlighting</b>	None	90 day warranty, N/C operator training	90 days, parts & labor on purchase	None	Auto Footnote Tie-In Term Dictionary / Glossary
<b>Character Size Control</b>	None			None	COMMUNICATIONS Availability Format & Speed
<b>Character Pitch Display</b>	None			None	ARITHMETIC CAPABILITY
<b>Character Spacing Display</b>	None			None	EDP CAPABILITY
<b>Line Spacing Display</b>	None			None	Multiprogramming Compilers
<b>Line Justify Display</b>	None			None	Applications Software
<b>Undercore Display</b>	None			None	PERIPHERALS
<b>Sub / Superscript Display</b>	None			None	BACKGROUND INFORMATION First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
<b>Multi-Column Page Display</b>	None			None	Rental
<b>Stored Form Recall / Display</b>	None			None	Lease
<b>Control Code Display</b>	None			None	Maintenance
<b>Format Statement Display</b>	None			None	Warranty & Support
<b>PRINTER STATIONS FEATURES</b>					REMARKS & OTHER FEATURES
<b>Printer Type &amp; Speed</b>	None			None	
<b>Printer Buffer Memory</b>	None			None	
<b>Character Pitch/Spacing</b>	None			None	
<b>Writing Line Width</b>	None			None	
<b>Carnage Paper Width</b>	None			None	
<b>First Line Forms Advance</b>	None			None	
<b>End-Of-Page Stop</b>	None			None	
<b>Justified Printout</b>	None			None	
<b>Sub / Superscript Printout</b>	None			None	
<b>Non Adjust Printout</b>	None			None	
<b>Bidirectional Printout</b>	None			None	
<b>Simultaneous Printout</b>	None			None	
<b>GEN. FUNCTIONAL FEATURES</b>					
<b>Media-Stored Format</b>	None			None	
<b>Default Format Statement</b>	None			None	
<b>Stored Multiple Formats</b>	None			None	
<b>Machine Dialog / Menu Prompt</b>	None			None	
<b>Forms Input</b>	None			None	
<b>Control Character Printout</b>	None			None	
<b>Printout Queuing</b>	None			None	
<b>Revision &amp; Status Reporting</b>	None			None	
<b>System Security</b>	None			None	
<b>TEXT INPUT FEATURES</b>					
<b>Auto Corner Return</b>	None			None	
<b>Auto Word Wraparound</b>	None			None	
<b>Auto Margin Adjust</b>	None			None	
<b>Temporary Margins</b>	None			None	
<b>Auto Decimal Tab Hyphenation</b>	None			None	
<b>REMARKS &amp; OTHER FEATURES</b>					

### Standalone Word Processing Systems

COMPANY	Lexitron	Lexitron	Lexitron	Megadata Corp.
<b>MODEL</b>	Videotype 1101 & 1102	1201 & 1202*	1303*	2001
<b>SYSTEM CONFIGURATION</b> Configuration	Keyboard, CRT, cassette console, printer	Keyboard, CRT, diskette console, printer	Keyboard, CRT, diskette console, printer	Keyboard, CRT, diskette console, printer
<b>Memory Size</b> <b>Storage Media</b>	32K 64K Cassette	84K to 96K Diskette	96K Dual diskette	64K Dual diskette
<b>Storage Capacity</b> <b>DISPLAY STATION FEATURES</b> Screen Size & Type Display Buffer Memory Format & Capacity	1,000,000 chars./cass 5" x 10" CRT 8K chars 25 lines x 102 chars (2550 chars total) 8 x 14 dot matrix Left, right, up, down	160K chars./diskette 5" x 10" CRT 8K char 25 lines x 102 chars (2550 chars total) 8 x 14 dot matrix Left, right, up, down	160K chars./diskette 5" x 10" CRT 8K char 25 lines x 102 chars (2550 chars total) 8 x 14 dot matrix Left, right, up, down	245K diskette 15" diagonal 20 lines x 80 chars (1600 chars total) 8 x 14 dot matrix Left, right, up, down, home, return Standard
<b>Character Generation</b> Cursor Positioning	Std to 66 lines Std to 126 chars Standard Standard Standard Standard None Standard None Standard None Standard Codes only* None Standard** None Standard	Std to 66 lines Std to 126 chars** Standard Standard Standard Standard None Standard None Standard Codes only** None Standard** None Standard	Std to 66 lines Std to 126 lines Standard Standard Standard Standard None Standard None Standard Codes only None Standard None Standard	By document & page no., cursor position C. L. document, specified block, page Standard* None Forward & Reverse None None None Standard None Standard Standard Standard
<b>Vertical Scrolling</b> <b>Horizontal Scrolling</b> <b>Page Scrolling</b> <b>Display Highlighting</b> <b>Character Size Control</b> <b>Character Pitch Display</b> <b>Character Spacing Display</b> <b>Line Spacing Display</b> <b>Line Justify Display</b> <b>Underscore Display</b> <b>Sub-Superscript Display</b> <b>Multi-Column Page Display</b> <b>Stored Form Recall Display</b> <b>Control Code Display</b> <b>Format Statement Display</b>	Std to 66 lines Std to 126 chars Standard Standard Standard Standard None Standard None Standard Codes only* None Standard** None Standard	Std to 66 lines Std to 126 chars** Standard Standard Standard Standard None Standard None Standard Codes only** None Standard** None Standard	By document & page no., cursor position C. L. document, specified block, page Standard* None Forward & Reverse None None None Standard None Standard Standard Standard	By document & page no., cursor position C. L. document, specified block, paragraph, page Standard** None None None Standard None Standard Standard Standard
<b>Printer Type &amp; Speed</b> <b>Printer Buffer Memory</b> <b>Character Pitch / Spacing</b> <b>Writing Line Width</b> <b>Carriage Paper Width</b> <b>First Line Forms Advance</b> <b>End Of Page Stop</b> <b>Justified Printout</b> <b>Sub-Superscript Printout</b> <b>Non Adjust Printout</b> <b>Bidirectional Printout</b> <b>Simultaneous Printout</b>	Qume daisy 55 cps 3,000 chars 10, 12 13" 15" None Standard None Standard* Standard Standard Standard	Qume daisy 55 cps 3,000 chars 10, 12 13" 15" None Standard Standard** Standard** Standard Standard Standard	Qume daisy 55 cps 3,000 chars 10, 12 13" 15" None Standard Standard Standard Standard Standard Standard	NEC thimble 55 cps — 10, 12 / 15 13" 15" Standard Standard Standard Standard Standard Standard
<b>GEN FUNCTIONAL FEATURES</b> Media Stored Format Default Format Statement Stored Multiple Formats Machine Dialog / Menu Prompt	Standard Margins only None Standard	Standard Margins only None Standard	Standard Margins only None Standard	Standard Standard Standard Standard & error messages Optional None Standard
<b>Forms Input</b> <b>Control Character Printout</b> <b>Printout Queuing</b>	Standard* None None	Standard* None Standard*	Standard None Standard	None None Standard
<b>Revision &amp; Status Reporting</b>	Standard	Standard	Standard	None
<b>System Security</b>	None	None	None	Optional
<b>TEXT INPUT FEATURES</b> Auto Carrier Return Auto Word Wraparound Auto Margin Adjust Temporary Margins	Standard Standard Standard* None	Standard Standard Standard** Standard	Standard Standard Standard Standard	Standard Standard Standard Standard
<b>Auto Decimal Tab</b> <b>Hyphenation</b>	Standard System scan before printout	Standard System scan before printout	Standard System scan before printout	Standard Manual, Hot Zone 90 days, parts & labor
<b>REMARKS &amp; OTHER FEATURES</b>	*Standard features on Model 1102 only	*Model 1202 may be configured in the RayText shared resource system **Standard features on Model 1202 only	*May be configured in the RayText shared resource system	

### Standalone Word Processing Systems

COMPANY	Lexitron	Lexitron	Lexitron	Megadata Corp.	COMPANY
<b>MODEL</b>	Videotype 1101 & 1102	1201 & 1202*	1303*	2001	<b>MODEL</b>
<b>SYSTEM CONFIGURATION</b> Configuration	None None Standard w/Text Assembly* w/Text Assembly* Standard*	Standard Standard Standard w/Text Assembly w/Text Assembly Standard	Standard Standard Standard w/Text Assembly w/Text Assembly Standard	Standard Standard Standard Standard Standard	<b>TEXT INPUT FEATURES (cont'd)</b> Auto Input Underline Auto Centering Auto Line Spacing Auto Page Numbering Auto Headers / Footers Auto Pagination <b>TEXT EDIT &amp; MERGE FEATURES</b> Document Assembly/Merge
<b>Memory Size</b> <b>Storage Media</b>	None None Standard w/Text Assembly* w/Text Assembly* Standard*	Standard Standard Standard w/Text Assembly w/Text Assembly Standard	Standard Standard Standard w/Text Assembly w/Text Assembly Standard	Standard Standard Standard Standard Standard	Auto Line Spacing Auto Page Numbering Auto Headers / Footers Auto Pagination <b>TEXT EDIT &amp; MERGE FEATURES</b> Document Assembly/Merge
<b>Storage Capacity</b> <b>DISPLAY STATION FEATURES</b> Screen Size & Type Display Buffer Memory Format & Capacity	Stored text assembled & merged w/ keyboard text By document & page no., cursor position C. L. document, specified block, page Standard*	Stored text assembled & merged w/ keyboard text By document & page no., cursor position C. L. document, specified block, paragraph, page Standard**	Stored text assembled & merged w/ keyboard text By document & page no., cursor position C. L. document, specified block, paragraph, page Standard	Standard Standard Standard C, W sentence, para block Standard	<b>Search Capability</b> Delete Capability Global Search & Replace
<b>Character Generation</b> Cursor Positioning	Standard Standard* Standard* None None Standard None Standard Standard Standard	Standard Standard** Standard** None None Standard None Standard Standard Standard	Standard Standard Standard None None Standard None Standard Standard Standard	Standard Standard Standard Standard Standard Standard Standard Standard Standard	Block Move/ Copy Column Move/Delete Auto Repagination
<b>Vertical Scrolling</b> <b>Horizontal Scrolling</b> <b>Page Scrolling</b> <b>Display Highlighting</b> <b>Character Size Control</b> <b>Character Pitch Display</b> <b>Character Spacing Display</b> <b>Line Spacing Display</b> <b>Line Justify Display</b> <b>Underscore Display</b> <b>Sub-Superscript Display</b> <b>Multi-Column Page Display</b> <b>Stored Form Recall Display</b> <b>Control Code Display</b> <b>Format Statement Display</b>	Standard Standard Standard Standard None Standard None Standard None Standard Codes only* None Standard** None Standard	Standard Standard** Standard** None None Standard None Standard Standard Standard	Standard Standard Standard None None Standard None Standard Standard Standard	Standard Standard Standard Standard Standard Standard Standard Standard Standard	Auto Widow Adjust Auto File Sort Auto File Select
<b>Printer Type &amp; Speed</b> <b>Printer Buffer Memory</b> <b>Character Pitch / Spacing</b> <b>Writing Line Width</b> <b>Carriage Paper Width</b> <b>First Line Forms Advance</b> <b>End Of Page Stop</b> <b>Justified Printout</b> <b>Sub-Superscript Printout</b> <b>Non Adjust Printout</b> <b>Bidirectional Printout</b> <b>Simultaneous Printout</b>	None None Standard None None Standard None Standard None Standard None Standard None Standard	None None Standard Standard** Standard** Standard Standard Standard Standard	None None Standard Standard Standard Standard Standard Standard	None None Standard Standard Standard Standard Standard Standard	Auto Footnote Tie-In Term Dictionary/Glossary
<b>GEN FUNCTIONAL FEATURES</b> Media Stored Format Default Format Statement Stored Multiple Formats Machine Dialog / Menu Prompt	Optional Programmable, IBM 2741, 2780, ASCII, 3780 sys-to-sys None None None None	Optional* 2780, 3780, 2741, or ASCII-compatible, or VT-VT None None None None	Optional 2780, 3780, 2741, or ASCII-compatible, or VT-VT None None None None	Optional Async, bisync, sync to 38.4 KB Std. with optional forms control None None	<b>COMMUNICATIONS</b> Availability Format & Speed <b>ARITHMETIC CAPABILITY</b> <b>EDP CAPABILITY</b> Multiprogramming Compilers
<b>Forms Input</b> <b>Control Character Printout</b> <b>Printout Queuing</b>	Standard* None None	Standard* None Standard*	Standard None Standard	Standard Standard Standard	<b>Applications Software</b>
<b>Revision &amp; Status Reporting</b>	Standard	Standard	Standard	Standard	<b>PERIPHERALS</b>
<b>System Security</b>	None	None	None	Optional	<b>BACKGROUND INFORMATION</b> First Delivery Date Country of Manufacture Installed Base Estimate <b>PRICING &amp; TERMS</b> Purchase
<b>TEXT INPUT FEATURES</b> Auto Carrier Return Auto Word Wraparound Auto Margin Adjust Temporary Margins	Standard Standard Standard* None	Standard Standard Standard** Standard	Standard Standard Standard Standard	Standard Standard Standard Standard	Rental Lease Maintenance Warranty & Support
<b>Auto Decimal Tab</b> <b>Hyphenation</b>	Standard System scan before printout	Standard System scan before printout	Standard System scan before printout	Standard Manual, Hot Zone 90 days, parts & labor	
<b>REMARKS &amp; OTHER FEATURES</b>	*Standard features on Model 1102 only	*Model 1202 may be configured in the RayText shared resource system **Standard features on Model 1202 only	*May be configured in the RayText shared resource system	*Standard features on 1102 only Upgrade from 1101 to 1102, \$2,855	<b>REMARKS &amp; OTHER FEATURES</b>
					Includes dual floppy disk drives and 55 cps bidirectional printer, opt compatibility with Burroughs, Univac, IBM, Honeywell for remote communications

Standalone Word Processing Systems

COMPANY	Megadata Corp.	Micom	Micom	NBI
<b>MODEL</b>	700 RTE	2000	2001	System I
<b>SYSTEM CONFIGURATION Configuration</b>	Keyboard/CRT, diskette console, printer	Keyboard/CRT, diskette console, printer	Keyboard/CRT, CPU/dual diskette console, printer	Keyboard, CRT/diskette console, printer
<b>Memory Size</b>	64K	64K	64K	—
<b>Storage Media</b>	Dual mini diskettes	Single or dual diskette	Dual diskette	Diskette
<b>Storage Capacity</b>	80K/diskette	300K chars./diskette	300K chars./diskette	205K chars./diskette
<b>DISPLAY SIZE &amp; TYPE</b>	15" diagonal	12" diagonal CRT	15" diagonal CRT	12" diagonal CRT
<b>Display Buffer Memory Format &amp; Capacity</b>	20 lines x 80 chars (2,480 chars. total) 8 x 12 dot matrix Left, right, up, down, home, return	31 lines x 80 chars (2,480 chars. total) 8 x 15 dot matrix Left, right, up, down, home	31 lines x 80 chars. 15 x 8 dot matrix Left, right, up, down, home	16 lines x 80 chars (1,280 chars. total) 9 x 16 dot matrix Left, right, up, down, end of page
<b>Character Generation</b>	Standard	Standard	Standard	Standard
<b>Cursor Positioning</b>	None	Standard	Standard	None
<b>Vertical Scrolling</b>	None	Standard	Standard	None
<b>Horizontal Scrolling</b>	None	Standard	Standard	None
<b>Page Scrolling</b>	None	Standard	Standard	None
<b>Display Highlighting</b>	None	Standard, Halftone	Standard, Halftone	None
<b>Character Size Control</b>	None	None	None	None
<b>Character Pitch Display</b>	None	None	None	None
<b>Character Spacing Display</b>	None	None	Standard	Standard
<b>Line Spacing Display</b>	Standard	Standard	Standard	Standard
<b>Line Justify Display</b>	None	Standard	Standard	Standard
<b>Underscore Display</b>	Standard	Standard	Standard	Code only
<b>Sub-Superscript Display</b>	Standard	Standard	Standard	None
<b>Multi-Column Page Display</b>	Standard	Standard	Standard	Optional
<b>Stored Form Recall/Display</b>	Standard	Standard	Standard	Standard
<b>Control Code Display</b>	Standard	Standard	Standard	Standard
<b>Format Statement Display</b>	Standard	Standard	Standard	Standard
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	NEC thimble, 55 cps	Qume daisy 45/55 cps*	Qume daisy 45/55 cps*	Qume daisy 30 or 55 cps
<b>Printer Buffer Memory</b>	—	—	Variable	4K
<b>Character Pitch/Spacing</b>	10/12/15	3 to 15 pitch	13"	10/12
<b>Writing Line Width</b>	13"	13" or 26"	15"	13.2"
<b>Carriage Paper Width</b>	15"	15" or 28"	15"	15"
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub-Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard
<b>Simultaneous Printout</b>	Standard	Standard	Standard	Standard
<b>GEN. FUNCTIONAL FEATURES</b>				
<b>Media Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog/Menu Prompt</b>	Standard & error message	Prompting & cueing on display**	Prompting and cueing on display	Status & error messages, cues displayed
<b>Forms Input</b>	Optional	Standard	Standard	Optional
<b>Control Character Printout</b>	None	Standard	Standard	None
<b>Printout Queuing</b>	Standard	Standard	Standard	Standard 1 to 15 pages/instruction
<b>Revision &amp; Status Reporting</b>	None	None	None	Diskette directory has doc. revision status Keylock
<b>System Security</b>	Optional	None	None	None
<b>TEXT INPUT FEATURES</b>				
<b>Auto Carriage Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab Hyphenation</b>	Standard	Standard	Standard	Standard
	Manual, Hot Zone	Manual, adjustable Hot Zone w/auto scan	Manual, adjustable Hot Zone w/auto scan	Manual
<b>REMARKS &amp; OTHER FEATURES</b>		*Dialo daisy, 40 cps also avail. **French, German, Swedish, Dutch prompts available Optional programmable character set.	*Dialo daisy, 40 cps also avail.	

Standalone Word Processing Systems

Megadata	Micom	Micom	NBI	COMPANY
700 RTE	2000	2001	System I	MODEL
Standard	Standard	Standard	Standard	TEXT INPUT FEATURES (cont'd)
Standard	Standard	Standard	Standard	Auto Input Underline
Standard	Standard	Standard	Standard	Auto Centering
Standard	Standard	Standard	Standard	Auto Line Spacing
Standard	Standard	Standard	Standard	Auto Page Numbering
Standard	Standard	Standard	Standard	Auto Headers/Footers
Standard	Standard	Standard	Standard	Auto Pagenation
Standard	Standard	Standard	Standard	TEXT EDIT & MERGE FEATURES
Standard	Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	Stored text merged w/keyboard text	Document Assembly/Merge
Standard	By page name, char string & cursor pos.	By page name, char string & cursor pos.	By page no. & cursor position	Search Capability
C. W. sentence, paragraph block	C. W. L. S. P or specified block	C. W. L. S. P or specified block	C. W. L. Block	Delete Capability
Standard	Standard	Standard	None	Global Search & Replace
Standard	Standard	Standard	Standard	Block Move/Copy
None	Standard	Standard	None	Column Move/Delete
Standard	Standard	Standard	None	Auto Repagination
Standard	Standard	Standard	None	Auto Widow Adjust
None	9 level sorts, ascending or descending order	9 level sorts, ascending or descending order	None	Auto File Sort
Standard	Standard	Standard	None	Auto File Select
None	None	Standard	None	Auto Footnote Tie-In
None	Standard	Standard	None	Term Dictionary/Glossary
Optional	Optional	Optional	None	COMMUNICATIONS
Asynch. bsync. sync. to 38.4Kb	Asynch. ASCII & IBM 2741-compat. at 50 to 1200 baud*	IBM 2741-compat. at 50 to 1200 baud	None	Availability
Std (with optional forms control)	None	None	None	Format & Speed
None	BASIC	BASIC	None	ARITHMETIC CAPABILITY
None	BASIC	BASIC	None	EDP CAPABILITY
Forms Control, Communications	Records Process. Sort, Math, Keystroke Memory	Records Process. Sort, Math, Keystroke, Memory	None	Multiprogramming
TLX punch, hard disk, line printer, floppy disk	OCR, Paper tape reader/writer, RS-232 devices, photocomposition	Dualhead Printer, Wide Track Printer, Shared Printer Interface	Sheet feeder	Compilers
February 1980	June 1976 (Canada)	—	October 1976	Applications Software
USA	Canada	—	USA	PERIPHERALS
150	650	—	—	BACKGROUND INFORMATION
\$9,500	\$9,870 (single disk.) \$12,690 (dual diskette)	\$10,500 (single disk.) \$13,500 (dual disk.)	\$11,190* \$5,620 (reconditioned) Not available	First Delivery Date
—	\$570 (2-yr.) \$645 (2-yr.) \$35 (5-yr.)	\$621 (2-yr.) \$695 (2-yr.)	—	Country of Manufacture
3rd party	\$403 \$869/yr. \$918/yr.	—	\$280 (2-yr.) incl. maint. \$80/mo	Installed Base Estimate
95%/mo	90 days, Megadata and 3rd party	90 days, parts & labor	90 days	PRICING & TERMS
90 days				Purchase
Standard				Rental
Manual				Lease
				Maintenance
				Warranty & Support
				REMARKS & OTHER FEATURES
Desktop terminal w/with integral dual mini floppy and letter quality printer. opt. communications for remote DP requirements	*Also Bsync. 2780/3780 at 2400 baud. Can perform editing sorting & printing of different documents simultaneously Add'l text entry station, \$9,900 can share printer in cluster configuration.		*NBI System I w/single disk, 30 cps printer.	



Standalone Word Processing Systems

COMPANY	NBI	NBI	Olivetti	Olivetti
<b>MODEL</b>	System II	3000*	TES-401	TES 501
<b>SYSTEM CONFIGURATION Configuration</b>	Keyboard, CRT, diskette console, printer	Keyboard, CRT, diskette console, printer	Keyboard, display/printer	Keyboard, display/diskette console
<b>Memory Size</b>	—	—	7500 chars	—
<b>Storage Media</b>	Single or dual diskette	Single or dual diskette	Mini-diskette	Dual diskette
<b>Storage Capacity</b>	173K chars, diskette	200K chars, diskette	7500 chars, diskette	325K chars, diskette
<b>DISPLAY STATION FEATURES</b>				
<b>Screen Size &amp; Type</b>	12" diagonal CRT	12" diagonal CRT	1" x 8" Gas plasma	1" x 8" Gas plasma
<b>Display Buffer Memory</b>	4K chars	16 lines x 80 chars (1280 chars total)	180 chars	180 chars
<b>Format &amp; Capacity</b>	9 x 16 dot matrix (1280 chars total)	9 x 16 dot matrix (1280 chars total)	1 line x 21 chars (21 chars total)	1 line x 21 chars (21 chars total)
<b>Character Generation</b>	Left, right, up, down, home, Standard	Left, right, up, down, next page, previous page, Standard	Left, right, Standard	Left, right, Standard
<b>Cursor Positioning</b>	Standard	Standard to 240 chars	None	None
<b>Vertical Scrolling</b>	None	Standard	Standard	Standard
<b>Horizontal Scrolling</b>	Standard	Standard	None	None
<b>Page Scrolling</b>	None	Standard, underscore	None	None
<b>Display Highlighting</b>	None	None	None	None
<b>Character Size Control</b>	None	None	None	None
<b>Character Pitch Display</b>	None	None	None	None
<b>Character Spacing Display</b>	None	Displays line count	None	None
<b>Line Spacing Display</b>	None	None	None	None
<b>Line Justify Display</b>	None	Standard	Standard	Standard
<b>Underscore Display</b>	Standard	Standard	Standard	Standard
<b>Sub-Superscript Display</b>	Code only	Standard	None	None
<b>Multi-Column Page Display</b>	Standard	Standard	Standard	Standard
<b>Stored Form Recall Display</b>	Standard	Standard	Standard	Standard
<b>Control Code Display</b>	Standard	Standard	Standard	Standard
<b>Format Statement Display</b>	Standard	Standard	Standard	Standard
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Daisy 30, 40 or 55 cps	Daisy wheel, 55 cps*	Olivetti daisy 30 cps	Olivetti daisy 55 cps
<b>Printer Buffer Memory</b>	Prints from diskette	—	—	—
<b>Character Pitch / Spacing</b>	10, 12, 15, 13.2", 17", 15"	10, 12, 15, 15", 17", 15"	10, 12, proportional, 15", 17"	10, 12, proportional, 15", 17"
<b>Writing Line Width</b>	Standard	Standard	Standard	Standard
<b>Carriage Paper Width</b>	Standard	Standard	Standard	Standard
<b>First Line Forms Advance</b>	Standard	Standard	Standard, interchar spac.	Standard, interchar sp
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub-Superscript Printout</b>	Standard	Standard	None	None
<b>Non-Adjust Printout</b>	None	Standard	None	None
<b>Bidirectional Printout</b>	None	Standard	None	None
<b>Simultaneous Printout</b>	None	Standard	None	None
<b>GEN. FUNCTIONAL FEATURES</b>				
<b>Media-Store Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog / Menu Prompt</b>	Status & error messages, cues displayed	Optional	Standard	Standard
<b>Forms Input</b>	Optional	Standard, up to 8 docs	Standard	Standard
<b>Control Character Printout</b>	Standard	Standard	None	None
<b>Printout Queuing</b>	Standard	Standard	None	Machine mode on display
<b>Revision &amp; Status Reporting</b>	None	Std. via document history directory, Diskette & document passwords	Machine mode on display	None
<b>System Security</b>	Keylock	Standard	Standard	Standard
<b>TEXT INPUT FEATURES</b>				
<b>Auto Carriage Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab Hyphenation</b>	Standard	Standard	Standard	Standard
	Ghost hyphens & manual, adjustable Hot Zone	Standard before print & operator decision	Standard Manual, full-line Hot Zone	Manual, full-line Hot Zone
<b>REMARKS &amp; OTHER FEATURES</b>	*Only on 40 cps printer Dual diskette optional, \$2,500	*System supports 2 keystations, 2 printers **40 cps proportional printer, Wide Track, Twin Track printers optional		

Standalone Word Processing Systems

COMPANY	NBI	NBI	Olivetti	Olivetti	COMPANY
<b>MODEL</b>	System II	3000	TES-401	TES-501	<b>MODEL</b>
<b>TEXT INPUT FEATURES (cont'd)</b>					<b>Auto Input Underline</b>
<b>Auto Centering</b>	Standard	Standard	Standard	Standard	<b>Auto Line Spacing</b>
<b>Auto Page Numbering</b>	Standard	Standard	Standard	Standard	<b>Auto Headers / Footers</b>
<b>Auto Pagination</b>	Standard	Standard	Standard	Standard	<b>Auto Edit &amp; MERGE FEATURES</b>
<b>Document Assembly / Merge</b>	Standard	Standard	Standard	Standard	<b>Document Assembly / Merge</b>
<b>Search Capability</b>	Stored text assembled & merged w/ keyboard text	Stored text assembled & merged w/ keyboard text	Stored text assembled & merged w/ keyboard text	Stored text assembled & merged w/ keyboard text	<b>Delete Capability</b>
<b>Delete Capability</b>	By page & line no., or by char string	By document, page no., char string & cursor	By skipping C, W, L, P, or by char string	By skipping C, W, L, P, or by char string	<b>Global Search &amp; Replace</b>
<b>Global Search &amp; Replace</b>	C, W, L, P, or char string	C, W, L, spec block	C, W, L, P	C, W, L, P	<b>Block Move / Copy</b>
<b>Block Move / Copy</b>	Next occurrence, manual replacement or deletion	Next occurrence, manual replacement or deletion	Next occurrence, manual replacement or deletion	Next or all occurrence manual replacement or deletion	<b>Column Move / Delete</b>
<b>Column Move / Delete</b>	Standard	Standard	None	None	<b>Auto Repagination</b>
<b>Auto Repagination</b>	Standard	Standard	Standard	Standard	<b>Auto Widow Adjust</b>
<b>Auto Widow Adjust</b>	Standard	Standard	Standard	Standard	<b>Auto File Sort</b>
<b>Auto File Sort</b>	Standard	Standard	Standard	Standard	<b>Auto Footnote Tie-In</b>
<b>Auto Footnote Tie-In</b>	6 searches on up to 90 fields simultaneously	6 searches on up to 90 fields simultaneously	6 searches on up to 90 fields simultaneously	6 searches on up to 90 fields simultaneously	<b>Term Dictionary / Glossary</b>
<b>Term Dictionary / Glossary</b>	None	None	None	None	<b>COMMUNICATIONS Availability</b>
<b>COMMUNICATIONS Availability</b>	Optional	Optional	Optional	Optional	<b>Format &amp; Speed</b>
<b>Format &amp; Speed</b>	Point-to-point	Point-to-point	Point-to-point	Point-to-point	<b>ARITHMETIC CAPABILITY</b>
<b>ARITHMETIC CAPABILITY</b>	Column addition	Column addition	Column addition	Column addition	<b>EDP CAPABILITY</b>
<b>EDP CAPABILITY</b>	None	None	None	None	<b>Multiprogramming</b>
<b>Multiprogramming</b>	None	None	None	None	<b>Compilers</b>
<b>Compilers</b>	None	None	None	None	<b>Applications Software</b>
<b>Applications Software</b>	Legal time accounting, insurance packages**	Legal time accounting, insurance packages**	Legal time accounting, insurance packages**	Legal time accounting, insurance packages**	<b>PERIPHERALS</b>
<b>PERIPHERALS</b>	Sheet feeder, education for administration & classroom	Sheet feeder, education for administration & classroom	Sheet feeder, education for administration & classroom	Sheet feeder, education for administration & classroom	<b>BACKGROUND INFORMATION</b>
<b>BACKGROUND INFORMATION</b>	—	—	—	—	<b>First Delivery Date</b>
<b>First Delivery Date</b>	May 1977	May 1977	May 1977	May 1977	<b>Country of Manufacture</b>
<b>Country of Manufacture</b>	Italy	Italy	Italy	Italy	<b>Installed Base Estimate</b>
<b>Installed Base Estimate</b>	—	—	—	—	<b>PRICING &amp; TERMS</b>
<b>PRICING &amp; TERMS</b>	—	—	—	—	<b>Purchase</b>
<b>Purchase</b>	\$14,690*	\$13,900**	\$5,990	\$8,950	<b>Rental</b>
<b>Rental</b>	\$7,470 (reconditioned)	—	—	—	<b>Lease</b>
<b>Lease</b>	—	—	—	—	<b>Maintenance</b>
<b>Maintenance</b>	\$265 (3-yr.) incl. maint.	\$485 (3-yr.) incl. maint.	\$80/mo	\$70/mo	<b>Warranty &amp; Support</b>
<b>Warranty &amp; Support</b>	\$80/mo	\$80/mo	90 day warranty	90 days, MSR support	—
—	90 days	90 day warranty	90 days, MSR support	90 days, MSR support	—
<b>REMARKS &amp; OTHER FEATURES</b>	*NBI System II w/ single disk, 30 cps printer, also system feature	*Arabic or Roman numbering, top or bottom of page **Includes single station, single diskette, printer	Leasing through Olivetti Leasing Corp.	*Line control unit, \$2,995 **Medical, Personnel packages also avail	<b>REMARKS &amp; OTHER FEATURES</b>

Standalone Word Processing Systems

COMPANY	Olivetti	Olympia	Olympia	Ontel
<b>MODEL</b>	TES-701	6010 Memory Typewriter	6020 Textsystem	OP-1
<b>SYSTEM CONFIGURATION</b>	Keyboard, CRT, diskette console, printer	Typewriter	Keyboard/printer, mini-diskette console	Keyboard, CRT, printer, diskette unit/disk unit, mini diskette
<b>Memory Size</b>	—	4K	7K	48K
<b>Storage Media</b>	Single or dual diskette	Internal tape loop*	Single or dual mini-diskette	Mini-standard diskette or 10MB hard disk
<b>Storage Capacity</b>	250K characters/diskette	200K characters	70K char./diskette	500K chars./diskette
<b>DISPLAY STATION FEATURES</b>	12" diagonal CRT	Not Available	One line	14 inch non glare CRT
<b>Screen Size &amp; Type</b>	16 lines x 80 chars (1280 characters total)	Not Available	1 line x 20 characters	7,200 characters
<b>Display Buffer Memory</b>	—	Not Available	—	24 lines x 80 chars (1920 chars total)
<b>Format &amp; Capacity</b>	—	Not Available	5 x 7 dot matrix	Dot matrix
<b>Character Generation</b>	Left, right, up, down, home	Not Available	Fixed	Standard
<b>Cursor Positioning</b>	Standard	Not Available	Standard	Standard
<b>Vertical Scrolling</b>	Standard, to 240 chars	Not Available	Standard	Standard
<b>Horizontal Scrolling</b>	Standard	Not Available	None	Standard
<b>Page Scrolling</b>	Standard	Not Available	None	Standard
<b>Display Highlighting</b>	Standard	Not Available	None	Standard
<b>Character Size Control</b>	None	Not Available	None	None
<b>Character Pitch Display</b>	None	Not Available	—	Not available
<b>Character Spacing Display</b>	None	Not Available	—	Not available
<b>Line Spacing Display</b>	Displays line count	Not Available	—	Not available
<b>Line Justify Display</b>	None	Not Available	None	Not available
<b>Underscore Display</b>	Standard	Not Available	Standard	Standard
<b>Sub/Superscript Display</b>	Standard	Not Available	Standard	Standard
<b>Multi-Column Page Display</b>	Standard	Not Available	Standard	Standard
<b>Stored Form Recall/Display</b>	Standard	Not Available	Standard	Standard
<b>Control Code Display</b>	Standard	Not Available	Standard	Standard
<b>Format Statement Display</b>	Standard	Not Available	Standard	Standard
<b>PRINTER STATION FEATURES</b>	Daisy wheel, 40 cps	Olympia 17.5 cps	Olympia 17.5 cps	Diablo 1345, 1355*
<b>Printer Type &amp; Speed</b>	—	6 characters	2 lines	Full page (90 lines)
<b>Printer Buffer Memory</b>	10/12/prop	10/12	10/12/15/prop	10/12/15 (prop./stand)
<b>Character Pitch/Spacing</b>	13.2"	10 3/4"	10 3/4"	13"
<b>Writing Line Width</b>	15"	14"	14"	15"
<b>Carnage Paper Width</b>	Standard	None	Standard	Standard
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End-Of-Page Stop</b>	Standard	None	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub/Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	None	None	Standard
<b>Bi-directional Printout</b>	Standard	None	None	Standard
<b>Simultaneous Printout</b>	Standard	None	None	Standard
<b>GEN FUNCTIONAL FEATURES</b>	Media-Stored Format	None	Standard	Standard
<b>Media-Stored Format</b>	Standard	None	Standard	Standard
<b>Default Format Statement</b>	Standard	None	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	None	Standard	Standard
<b>Machine Dialog/Menu Prompt</b>	Standard	None	Standard	Standard
<b>Forms Input</b>	None	None	Standard	Standard
<b>Control Character Printout</b>	—	None	None	None
<b>Printout Queuing</b>	Standard	None	None	None
<b>Revision &amp; Status Reporting</b>	Standard	None	None	Standard
<b>System Security</b>	Document, diskette passwords	Optional, keylock**	—	Standard (hard disk only)
<b>TEXT INPUT FEATURES</b>	Auto Carrier Return	None	Standard	Standard
<b>Auto Carrier Return</b>	Standard	None	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab Hyphenation</b>	Standard System scan before print, operator decision	Standard Manual and pre-hyphen 6-character hot zone	Standard	Standard
<b>REMARKS &amp; OTHER FEATURES</b>		*Multi-track store recall **\$55	*Qume Sprint	

Standalone Word Processing Systems

COMPANY	Olivetti	Olympia	Olympia	Ontel	COMPANY
<b>MODEL</b>	TES-701	6010 Memory Typewriter	6020 Textsystem	OP-1	<b>MODEL</b>
<b>SYSTEM CONFIGURATION</b>	Standard Standard	Standard Standard	Standard Standard	Standard Standard	<b>TEXT INPUT FEATURES (cont'd)</b> Auto Input Underline Auto Centering
<b>Memory Size</b>	Standard*	None	None	Standard	Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Page Number
<b>Storage Media</b>	Standard	None	Optional	Standard	TEXT EDIT & MERGE FEATURES Document Assembly/Merge
<b>Storage Capacity</b>	Stored paras assembled & merged w/glossary entries or keyboarded text	Stored text assembled & merged w/keyboarded text	Stored text assembled & merged w/keyboarded text	Multiple paragraphs assembled with variable text	<b>Search Capability</b>
<b>DISPLAY STATION FEATURES</b>	By document, page no., char. string & cursor C, W, L, spec., block	By skipping C, W, L, P Backspace & C, W, L	By char. string Backspace & C, W, L, P & Page Standard	Character string, page, document C, W, L, S, para, page	<b>Delete Capability</b>
<b>Screen Size &amp; Type</b>	Standard, auto or selective replacement or deletion	None	Standard	Manual or auto, replace of all occurrences of character string	<b>Global Search &amp; Replace</b>
<b>Display Buffer Memory</b>	Standard	None	Standard	Standard	<b>Block Move/Copy</b>
<b>Format &amp; Capacity</b>	Standard	None	Standard	Standard	<b>Column Move/Delete</b>
<b>Character Generation</b>	Standard	None	Optional	Standard	<b>Auto Repagination</b>
<b>Cursor Positioning</b>	Standard	None	Standard w/option	None	<b>Auto Widow Adjust</b>
<b>Vertical Scrolling</b>	Standard	None	None	None	<b>Auto File Sort</b>
<b>Horizontal Scrolling</b>	Standard	None	None	Standard	<b>Auto File Select</b>
<b>Page Scrolling</b>	Standard	None	None	None	<b>Auto Footnote Tie-In</b>
<b>Display Highlighting</b>	Standard	None	None	Standard	<b>Term Dictionary/Glossary</b>
<b>Character Size Control</b>	Standard	None	None	Standard	<b>COMMUNICATIONS</b> Availability Format & Speed
<b>Character Pitch Display</b>	Standard	None	None	Standard	<b>ARITHMETIC CAPABILITY</b> EDP CAPABILITY Multiprogramming Compilers
<b>Character Spacing Display</b>	Standard	None	None	Standard	<b>Applications Software</b>
<b>Line Spacing Display</b>	Standard	None	None	Standard	<b>PERIPHERALS</b>
<b>Line Justify Display</b>	Standard	None	None	Standard	<b>BACKGROUND INFORMATION</b> First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
<b>Underscore Display</b>	Standard	None	None	Standard	<b>Rental</b>
<b>Sub/Superscript Display</b>	Standard	None	None	Standard	<b>Lease</b>
<b>Multi-Column Page Display</b>	Standard	None	None	Standard	<b>Maintenance</b>
<b>Stored Form Recall/Display</b>	Standard	None	None	Standard	<b>Warranty &amp; Support</b>
<b>Control Code Display</b>	Standard	None	None	Standard	<b>REMARKS &amp; OTHER FEATURES</b>
<b>Format Statement Display</b>	Standard	None	None	Standard	
<b>PRINTER STATION FEATURES</b>	Optional Asynchronous ASCII, TWX, TTY	None	None	Standard Async 19200 Baud (max.)	
<b>Printer Type &amp; Speed</b>	Column & Row, Add/Sub/Mult/Div None None	None	None	Standard	
<b>Printer Buffer Memory</b>	Legal pkg., math pkg	None	None	Standard	
<b>Printer Character Pitch/Spacing</b>	Sprocket feed, sheet feeder	None	None	Standard	
<b>Writing Line Width</b>	August 1979 USA	July 1978 West Germany	April 1980 West Germany	Standard	
<b>Carnage Paper Width</b>	\$13,100** \$14,150*** \$846** \$695*** (12 mo.) \$585** \$635*** (24 mo.) Available	\$4,600	\$6,250	Standard	
<b>First Line Forms Advance</b>	—	—	—	Standard	
<b>End-Of-Page Stop</b>	\$142 (5-yr)	—	—	Standard	
<b>Justified Printout</b>	—	—	—	Standard	
<b>Sub/Superscript Printout</b>	—	—	—	Standard	
<b>Non-Adjust Printout</b>	—	—	—	Standard	
<b>Bi-directional Printout</b>	—	—	—	Standard	
<b>Simultaneous Printout</b>	—	—	—	Standard	
<b>GEN FUNCTIONAL FEATURES</b>	Avail. dependent upon configuration 90 days, parts & labor, MSR support	\$348/yr	\$468/yr	Standard	
<b>Media-Stored Format</b>	—	—	—	Standard	
<b>Default Format Statement</b>	—	—	—	Standard	
<b>Stored Multiple Formats</b>	—	—	—	Standard	
<b>Machine Dialog/Menu Prompt</b>	—	—	—	Standard	
<b>Forms Input</b>	—	—	—	Standard	
<b>Control Character Printout</b>	—	—	—	Standard	
<b>Printout Queuing</b>	—	—	—	Standard	
<b>Revision &amp; Status Reporting</b>	—	—	—	Standard	
<b>System Security</b>	—	—	—	Standard	
<b>TEXT INPUT FEATURES</b>	—	—	—	Standard	
<b>Auto Carrier Return</b>	—	—	—	Standard	
<b>Auto Word Wraparound</b>	—	—	—	Standard	
<b>Auto Margin Adjust</b>	—	—	—	Standard	
<b>Temporary Margins</b>	—	—	—	Standard	
<b>Auto Decimal Tab Hyphenation</b>	—	—	—	Standard	
<b>REMARKS &amp; OTHER FEATURES</b>	*Arabic Roman even **Cost for CRT, keyboard, single diskette drive, printer ***Cost for CRT, keyboard, dual diskette drives, printer	—	—	Standard	

### Standalone Word Processing Systems

COMPANY	Q1 Corporation	Qyx	Qyx	Qyx
<b>MODEL</b>	Lite & Microlite	Intelligent Typewriter Level 1	Intelligent Typewriter Level 1 Plus	Intelligent Typewriter Level 2
<b>SYSTEM CONFIGURATION</b>	Keyboard/display, diskette console, printer	Keyboard/printer	Keyboard/printer	Keyboard/printer
<b>Memory Size</b>	—	1K chars (phrase/format)	8K characters	10K chars
<b>Storage Media</b>	Dual diskette	—	—	—
<b>Storage Capacity</b>	1 Mb chars/diskette(Lite)*	1K chars (phrase/format)	8K characters	10K chars
<b>DISPLAY STATION FEATURES</b>	Gas plasma	Not Available	Optional 1" x 5" LED	Optional 1" x 5" LED
<b>Screen Size &amp; Type</b>	Not Available	Not Available	—	—
<b>Display Buffer Memory</b>	6 lines x 47 chars. or 12 lines x 47 chars	Not Available	1 line x 24 chars (24 chars. total)	1 line x 24 chars (24 chars. total)
<b>Format &amp; Capacity</b>	5 x 7 dot matrix	Not Available	5 x 7 dot matrix	5 x 7 dot matrix
<b>Character Generation</b>	Left, right, up, down	Not Available	Fixed	Fixed
<b>Cursor Positioning</b>	—	Not Available	—	—
<b>Vertical Scrolling</b>	Standard	Not Available	None	None
<b>Horizontal Scrolling</b>	None	Not Available	Standard	Standard
<b>Page Scrolling</b>	None	Not Available	None	None
<b>Display Highlighting</b>	None	Not Available	None	None
<b>Character Size Control</b>	None	Not Available	None	None
<b>Character Pitch Display</b>	None	Not Available	None	None
<b>Character Spacing Display</b>	None	Not Available	None	None
<b>Line Spacing Display</b>	None	Not Available	None	None
<b>Line Justify Display</b>	None	Not Available	None	None
<b>Underscore Display</b>	Codes only	Not Available	Codes only	Codes only
<b>Sub-Superscript Display</b>	Codes only	Not Available	Codes only	Codes only
<b>Multi-Column Page Display</b>	None	Not Available	None	None
<b>Stored Form Recall/Display</b>	None	Not Available	None	None
<b>Control Code Display</b>	Standard	Not Available	None	None
<b>Format Statement Display</b>	Standard	Not Available	Standard	Standard
<b>PRINTER STATIONS FEATURES</b>	—	—	—	—
<b>Printer Type &amp; Speed</b>	Diablo daisy 45 cps	Qyx daisy wheel 30 cps	Qyx daisy wheel, 30 cps	Qyx daisy wheel 30 cps
<b>Printer Buffer Memory</b>	10, 12/15/prop	one typing line	One typing line	One typing line
<b>Character Pch, Spacing</b>	13"	10, 12 prop	10, 12 pitch	10, 12 /prop
<b>Writing Line Width</b>	15"	13"	13"	134
<b>Carrage Paper Width</b>	15"	15 25"	15 25"	15 25"
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End-Of-Page Stop</b>	Standard	None	None	Standard
<b>Justified Printout</b>	Standard	None	None	Standard
<b>Sub-Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard
<b>Simultaneous Printout</b>	Standard	None	None	None
<b>GEN. FUNCTIONAL FEATURES</b>	—	—	—	—
<b>Media Stored Format</b>	Standard	None	None	None
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog/Menu Prompt</b>	Limited cueing	None	None	None
<b>Forms Input</b>	—	None	None	None
<b>Control Character Printout</b>	None	None	None	None
<b>Printout Queuing</b>	None	None	None	None
<b>Revision &amp; Status Reporting</b>	—	None	None	None
<b>System Security</b>	File protect	None	None	None
<b>TEXT INPUT FEATURES</b>	—	—	—	—
<b>Auto Carner Return</b>	—	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	None	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard
<b>Hyphenation</b>	Manual	Standard	Standard	Standard
<b>REMARKS &amp; OTHER FEATURES</b>	*400K chars/diskette (Microlite) Optional 27 or 54 Mb rigid disk avail for Lite	—	—	—

### Standalone Word Processing Systems

COMPANY	Q1 Corporation	Qyx	Qyx	Qyx	COMPANY
<b>MODEL</b>	Lite & Microlite	Intelligent Typewriter Level 1	Intelligent Typewriter Level 1 Plus	Intelligent Typewriter Level 2	<b>TEXT INPUT FEATURES (cont'd)</b>
<b>SYSTEM CONFIGURATION</b>	Keyboard/display, diskette console, printer	Keyboard/printer	Keyboard/printer	Keyboard/printer	<b>Auto Input Underline</b>
<b>Memory Size</b>	—	1K chars (phrase/format)	8K characters	10K chars	<b>Auto Centering</b>
<b>Storage Media</b>	Dual diskette	—	—	—	<b>Auto Line Spacing</b>
<b>Storage Capacity</b>	1 Mb chars/diskette(Lite)*	1K chars (phrase/format)	8K characters	10K chars	<b>Auto Page Numbering</b>
<b>DISPLAY STATION FEATURES</b>	Gas plasma	Not Available	Optional 1" x 5" LED	Optional 1" x 5" LED	<b>Auto Headers/ Footers</b>
<b>Screen Size &amp; Type</b>	Not Available	Not Available	—	—	<b>Auto Pagination</b>
<b>Display Buffer Memory</b>	6 lines x 47 chars. or 12 lines x 47 chars	Not Available	1 line x 24 chars (24 chars. total)	1 line x 24 chars (24 chars. total)	<b>TEXT EDIT &amp; MERGE FEATURES</b>
<b>Format &amp; Capacity</b>	5 x 7 dot matrix	Not Available	5 x 7 dot matrix	5 x 7 dot matrix	<b>Document Assembly/ Merge</b>
<b>Character Generation</b>	Left, right, up, down	Not Available	Fixed	Fixed	<b>Search Capability</b>
<b>Cursor Positioning</b>	—	Not Available	—	—	<b>Delete Capability</b>
<b>Vertical Scrolling</b>	Standard	Not Available	None	None	<b>Global Search &amp; Replace</b>
<b>Horizontal Scrolling</b>	None	Not Available	Standard	Standard	<b>Block Move/ Copy</b>
<b>Page Scrolling</b>	None	Not Available	None	None	<b>Column Move/Delete</b>
<b>Display Highlighting</b>	None	Not Available	None	None	<b>Auto Repagination</b>
<b>Character Size Control</b>	None	Not Available	None	None	<b>Auto Widow Adjust</b>
<b>Character Pitch Display</b>	None	Not Available	None	None	<b>Auto File Sort</b>
<b>Character Spacing Display</b>	None	Not Available	None	None	<b>Auto File Select</b>
<b>Line Spacing Display</b>	None	Not Available	None	None	<b>Auto Footnote Tie-In</b>
<b>Line Justify Display</b>	None	Not Available	None	None	<b>Term Dictionary/ Glossary</b>
<b>Underscore Display</b>	Codes only	Not Available	Codes only	Codes only	<b>COMMUNICATIONS</b>
<b>Sub-Superscript Display</b>	Codes only	Not Available	Codes only	Codes only	<b>Availability</b>
<b>Multi-Column Page Display</b>	None	Not Available	None	None	<b>Format &amp; Speed</b>
<b>Stored Form Recall/Display</b>	None	Not Available	None	None	<b>ARITHMETIC CAPABILITY</b>
<b>Control Code Display</b>	Standard	Not Available	None	None	<b>EDP CAPABILITY</b>
<b>Format Statement Display</b>	Standard	Not Available	Standard	Standard	<b>Multiprogramming</b>
<b>PRINTER STATIONS FEATURES</b>	—	—	—	—	<b>Compilers</b>
<b>Printer Type &amp; Speed</b>	Diablo daisy 45 cps	Qyx daisy wheel 30 cps	Qyx daisy wheel, 30 cps	Qyx daisy wheel 30 cps	<b>Applications Software</b>
<b>Printer Buffer Memory</b>	10, 12/15/prop	one typing line	One typing line	One typing line	<b>PERIPHERALS</b>
<b>Character Pch, Spacing</b>	13"	10, 12 prop	10, 12 pitch	10, 12 /prop	<b>BACKGROUND INFORMATION</b>
<b>Writing Line Width</b>	15"	13"	13"	134	<b>First Delivery Date</b>
<b>Carrage Paper Width</b>	15"	15 25"	15 25"	15 25"	<b>Country of Manufacture</b>
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard	<b>Installed Base Estimate</b>
<b>End-Of-Page Stop</b>	Standard	None	None	Standard	<b>PRICING &amp; TERMS</b>
<b>Justified Printout</b>	Standard	None	None	Standard	<b>Purchase</b>
<b>Sub-Superscript Printout</b>	Standard	Standard	Standard	Standard	<b>Rental</b>
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard	<b>Lease</b>
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard	<b>Maintenance</b>
<b>Simultaneous Printout</b>	Standard	None	None	None	<b>Warranty &amp; Support</b>
<b>GEN. FUNCTIONAL FEATURES</b>	—	—	—	—	<b>REMARKS &amp; OTHER FEATURES</b>
<b>Media Stored Format</b>	Standard	None	None	None	<b>Upgradeable to all higher levels</b>
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard	<b>*Plus installation charge of \$35</b>
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard	<b>Upgradeable to all higher levels</b>
<b>Machine Dialog/Menu Prompt</b>	Limited cueing	None	None	None	<b>*Plus installation charge of \$60</b>
<b>Forms Input</b>	—	None	None	None	—
<b>Control Character Printout</b>	None	None	None	None	—
<b>Printout Queuing</b>	None	None	None	None	—
<b>Revision &amp; Status Reporting</b>	—	None	None	None	—
<b>System Security</b>	File protect	None	None	None	—
<b>TEXT INPUT FEATURES</b>	—	—	—	—	—
<b>Auto Carner Return</b>	—	Standard	Standard	Standard	—
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard	—
<b>Auto Margin Adjust</b>	Standard	None	Standard	Standard	—
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard	—
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard	—
<b>Hyphenation</b>	Manual	Standard	Standard	Standard	—
<b>REMARKS &amp; OTHER FEATURES</b>	*400K chars/diskette (Microlite) Optional 27 or 54 Mb rigid disk avail for Lite	—	—	—	—

### Standalone Word Processing Systems

COMPANY	Qyx	Qyx	Qyx	Radio Shack
<b>MODEL</b>	Intelligent Typewriter Level 3	Intelligent Typewriter Level 4	Intelligent Typewriter Level 5	TRS-80 Scriptit
<b>SYSTEM CONFIGURATION Configuration</b>	Keyboard/printer	Keyboard/printer	Keyboard/printer	Keyboard, VDT, diskette unit, printer
<b>Memory Size</b>	60K chars	60K chars	120K chars	64K
<b>Storage Media</b>	—	Single mini-diskette	Dual mini-diskette	Diskette
<b>Storage Capacity</b>	60K chars	60K chars / diskette	60K chars / diskette	350K chars / diskette
<b>DISPLAY STATION FEATURES</b>	Optional 1" x 5" LED	Optional 1" x 5" LED	Optional 1" x 5" LED	12" diagonal CRT
<b>Screen Size &amp; Type</b>	1 line x 24 chars (24 chars total)	1 line x 24 chars (24 chars total)	1 line x 24 chars (24 chars total)	8K
<b>Display Buffer Memory Format &amp; Capacity</b>	5 x 7 dot matrix Fixed	5 x 7 dot matrix Fixed	5 x 7 dot matrix Fixed	24 lines x 80 chars (1920 chars total)
<b>Character Generation</b>	None	None	None	5 x 7 dot matrix
<b>Cursor Positioning</b>	Standard	Standard	Standard	Left, right, up, down, end/start/top of text
<b>Vertical Scrolling</b>	None	None	None	Standard
<b>Horizontal Scrolling</b>	None	None	None	Standard
<b>Page Scrolling</b>	None	None	None	Standard
<b>Display Highlighting</b>	None	None	None	Standard
<b>Character Size Control</b>	None	None	None	Code only
<b>Character Pitch Display</b>	None	None	None	Code only
<b>Character Spacing Display</b>	None	None	None	Code only
<b>Line Spacing Display</b>	None	None	None	Code only
<b>Line Justify Display</b>	Standard	Standard	Standard	None
<b>Underscore Display</b>	Codes only	Codes only	Codes only	None
<b>Sub / Superscript Display</b>	Codes only	Codes only	Codes only	None
<b>Multi-Column Page Display</b>	None	None	None	Standard
<b>Stored Form Recall / Display</b>	None	None	None	Standard
<b>Control Code Display</b>	None	None	None	Standard
<b>Format Statement Display</b>	Standard	Standard	Standard	Standard
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Qyx daisy wheel 30 cps	Qyx daisy wheel 30 cps	Qyx daisy wheel 30 cps	43 cps daisywheel
<b>Printer Buffer Memory</b>	One typing line	One typing line	One typing line	—
<b>Character Pitch / Spacing</b>	10/12/prop	10/12/prop	10/12/prop	10/12/proportional
<b>Writing Line Width</b>	13"	13"	13"	15 1/8 chars
<b>Carriage Paper Width</b>	15.25"	15.25"	15.25"	15"
<b>First Line Forms Advance</b>	Standard	Standard	Standard	None
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub / Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard
<b>Simultaneous Printout</b>	None	None	None	Standard
<b>GEN. FUNCTIONAL FEATURES</b>				
<b>Media Stored Format</b>	None	None	None	Standard*
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog / Menu Prompt</b>	None	None	None	Standard
<b>Forms Input</b>	None	None	None	Standard, prompting and menus
<b>Control Character Printout</b>	None	None	None	Standard
<b>Printout Queuing</b>	None	None	None	Standard, fixed
<b>Revision &amp; Status Reporting</b>	None	None	None	None
<b>System Security</b>	None	None	None	Limited
<b>TEXT INPUT FEATURES</b>				
<b>Auto Corner Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard
<b>Hyphenation</b>	Standard	Standard	Standard	Standard
<b>REMARKS &amp; OTHER FEATURES</b>				Standard Highlighting, user select Hot Zone
				*Continuous form paper

### Standalone Word Processing Systems

Qyx	Qyx	Qyx	Radio Shack	COMPANY
Intelligent Typewriter Level 3	Intelligent Typewriter Level 4	Intelligent Typewriter Level 5	TRS 80 Scriptit	<b>MODEL</b>
Standard	Standard	Standard	Standard	<b>TEXT INPUT FEATURES (cont'd)</b>
Standard	Standard	Standard	Standard	Auto Input Underline
Standard	Standard	Standard	Standard	Auto Centering
None	None	Standard	Standard	Auto Line Spacing
None	None	Standard	Standard	Auto Page Numbering
None	None	Standard	Standard	Auto Headers/Footers
None	None	Standard	Standard	Auto Pagination
Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text or stored text	Stored text merged with keyboard text	<b>TEXT EDIT &amp; MERGE FEATURES</b>
By character string	By character string	By character string	Page, page range	Document Assembly/Merge
C. W. L. S. Para Page	C. W. L. S. Para Page	C. W. L. S. Para Page	Page, page range	Search Capability
Standard	Standard	Next or all occurrences	Text string, page	Delete Capability
Standard	Standard	Standard	Standard	Global Search & Replace
None	None	None	None	Block Move/Copy
Standard	Standard	Standard	Standard	Column Move/Delete
Standard	Standard	Standard	Standard	Auto Repagination
None	None	None	None	Auto Widow Adjust
None	None	None	None	Auto File Sort
None	None	None	None	Auto File Select
None	None	None	None	Auto Footnote Tie-In
None	None	None	None	Term Dictionary/Glossary
Optional Qyx-to-Qyx, Qyx-to-Vydec	Optional Qyx-to-Qyx, Qyx-to-Vydec	Optional Qyx-to-Qyx, Qyx-to-Vydec	Standard	<b>COMMUNICATIONS</b>
Asynch 1200 bps, Qyx-to-TTY, Asynch 110-300 bps	Asynch 1200 bps, Qyx-to-TTY, Asynch 110-300 bps	Asynch 1200 bps, Qyx-to-TTY, Asynch 110-300 bps	Transmit only up to 19600 baud	Availability
None	None	None	None	Format & Speed
None	None	None	None	<b>ARITHMETIC CAPABILITY</b>
None	None	None	None	EDP CAPABILITY
None	None	None	None	Multi-programming Compilers
None	None	LED display, communications	Accounting file maintenance	<b>Applications Software</b>
Mini-diskette drives, LED display communications	Second mini-diskette drive, LED display, communications	Second mini-diskette drive, LED display, communications	Up to 3 disk drives, printers	<b>PERIPHERALS</b>
USA	USA	USA	November 1980 USA	<b>BACKGROUND INFORMATION</b>
\$4,450*	\$5,950*	\$6,950*	\$6,158*	First Delivery Date
—	—	—	—	Country of Manufacture
Available	Available	Available	Available	Installed Base Estimate
\$384 / yr	\$576 / yr	\$780 / yr	Available	<b>PRICING &amp; TERMS</b>
90 days	90 days	90 days	90 days after purchase audio training course	Purchase
Upgradeable to all higher levels	Upgradeable to all higher levels	*Plus installation charge of \$60	*Includes TRS 80 printer & software	<b>Rental</b>
*Plus installation charge of \$60	*Plus installation charge of \$60			<b>Lease</b>
				<b>Maintenance</b>
				<b>Warranty &amp; Support</b>
				<b>REMARKS &amp; OTHER FEATURES</b>

### Standalone Word Processing Systems

COMPANY	Rothenberg Information Systems	Royal	Royal	Royal
<b>MODEL</b>	Rothenberg 1/25	SE 6000	SE 6000D	Royal 7000
<b>SYSTEM CONFIGURATION</b>	Keyboard, display, diskette console, printer	Keyboard printer diskette unit	Keyboard/printer, diskette unit	Non-integral keyboard, tiltable CRT and dual drives, printer
<b>Memory Size</b>	48K	4,000 characters	4,000 characters	96K
<b>Storage Media</b>	Dual diskette	Mini-diskette	Single mini-diskette	Dual mini-diskettes
<b>Storage Capacity</b>	250K char./diskette*	64K chars./diskette	64K chars./diskette	80K char./diskette
<b>DISPLAY SIZE &amp; Type</b>	12" diagonal CRT	Not Available	11" x 8 1/2" vacuum fluor	12" diagonal CRT
<b>Display Buffer Memory</b>	1920 chars	Not Available	4,000 chars	6,500 chars
<b>Format &amp; Capacity</b>	24 lines x 80 chars	Not Available	1 line x 40 characters (40 chars. total)	24 lines x 80 chars
<b>Character Generation</b>	9 x 12 dot matrix	Not Available	5 x 11 dot matrix	10 x 12 dot/12 x 14 frame
<b>Cursor Positioning</b>	Left, right, up, down	Not Available	Left, right	L, R, up, down, home & amount keys
<b>Vertical Scrolling</b>	Standard	Not Available	None	Standard
<b>Horizontal Scrolling</b>	Standard	Not Available	Standard	Standard (to 255 chars.)
<b>Page Scrolling</b>	Standard	Not Available	None	Standard
<b>Display Highlighting</b>	Standard	Not Available	None	Blinking, Reverse, Dim
<b>Character Size Control</b>	None	Not Available	None	None
<b>Character Pitch Display</b>	None	Not Available	None	None
<b>Character Spacing Display</b>	Standard	Not Available	None	None
<b>Line Spacing Display</b>	Standard	Not Available	None	Standard
<b>Line Justify Display</b>	Standard	Not Available	None	Standard
<b>Underscore Display</b>	Code only	Not Available	Standard	Standard
<b>Sub-Superscript Display</b>	Standard	Not Available	Standard	Codes only
<b>Multi-Column Page Display</b>	Standard	Not Available	None	Standard
<b>Stored Form Recall/Display</b>	Standard	Not Available	Standard	Standard
<b>Control Code Display</b>	Standard	Not Available	Standard	Standard
<b>Format Statement Display</b>	Standard	Not Available	Standard	Standard
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Daisy wheel 45 cps**	Single element, 20 cps	Single element, 20 cps	Qume, 45 cps
<b>Printer Buffer Memory</b>	168 chars	40 characters	40 chars	488 characters
<b>Character Pitch/Spacing</b>	8 thru 13 & proportional	10, 12, 15 prop	10/12/15/3 sizes prop	9/10/12/15
<b>Writing Line Width</b>	13.2"	13"	13"	13.2"
<b>Carriage Paper Width</b>	18"	15"	15"	13"
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End Of Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub-Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	None	None	Standard
<b>Bidirectional Printout</b>	Standard	None	None	None
<b>Simultaneous Printout</b>	Standard	None	None	None
<b>GEN FUNCTIONAL FEATURES</b>				
<b>Media Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog/Menu Prompt</b>	Standard	None	None	Prompting & cueing on display
<b>Forms Input</b>	Standard	Standard	Standard	Standard
<b>Control Character Printout</b>	Standard	None	None	Standard
<b>Printout Queuing</b>	Standard	Prints from diskette or keyboard	None	Standard*
<b>Revision &amp; Status Reporting</b>	Standard	Standard	Standard	Standard**
<b>System Security</b>	None	None	None	None
<b>TEXT INPUT FEATURES</b>				
<b>Auto Corner Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab Hyphenation</b>	Standard	Standard	Standard	Standard
	Uses optional hyphens	Manual, adjustable hot zone, 4-10 char. wide	Adjustable Hot Zone	Adjustable Hot Zone w/auto scan
<b>REMARKS &amp; OTHER FEATURES</b>	*Optional 1,000K chars./diskette **Line printer available			*Two documents (total 70 pages) may be queued **Automatically creates index and lists space available, date and time if system clock is set

### Standalone Word Processing Systems

COMPANY	Rothenberg Information Systems	Royal	Royal	Royal	COMPANY
<b>MODEL</b>	Rothenberg 1/25	SE 6000	SE 6000D	Royal 7000	<b>MODEL</b>
<b>TEXT INPUT FEATURES (cont'd)</b>					<b>Auto Input Underline</b> <b>Auto Centering</b>
<b>Auto Line Spacing</b>	Standard	Standard	Standard	Standard	<b>Auto Page Numbering</b>
<b>Auto Headers/Footers</b>	Standard	None	None	Standard	<b>Auto Pagination</b>
<b>TEXT EDIT &amp; MERGE FEATURES</b>	Standard	Standard	Standard	Standard	<b>Document Assembly/Merge</b>
<b>Stored text assembled &amp; merged w/keyboard text</b>	Standard	Standard	Standard	Standard	<b>Search Capability</b>
<b>By char. string or by skipping C, W, L, C, W, L</b>	Standard	By C, W, L, Para, Page character string C, W, L, P	By C, W, L, Para, Page character string C, W, L, P	By doc. page no., char string, cursor & amt. keys C, W, L, P, Page, Remainder to end buff. mem. Standard	<b>Delete Capability</b>
<b>Standard, manual replace</b>	Standard	Standard, manual replace	Next or all occurrences, manual replace or delete	Standard	<b>Global Search &amp; Replace</b>
<b>None</b>	Standard	None	None	Standard	<b>Block Move/Copy</b>
<b>Optional</b>	Standard	None	None	Standard	<b>Column Move/Delete</b>
<b>Standard</b>	Standard	Standard	Standard	Standard	<b>Auto Repagination</b>
<b>None</b>	Standard	Standard	Standard	None	<b>Auto Widow Adjust</b>
<b>Standard</b>	None	None	Standard	Standard	<b>Auto File Sort</b>
<b>Standard</b>	None	None	Standard	Standard	<b>Auto File Select</b>
<b>None</b>	None	None	Standard	None	<b>Auto Footnote Tie-In</b>
<b>Standard</b>	None	None	Standard	Standard	<b>Term Dictionary/Glossary</b>
<b>Standard, ASCII 110 to 9600 bps</b>	None	None	Optional	TTY, 2741, 2780, 110-19,200 baud	<b>COMMUNICATIONS Availability Format &amp; Speed</b>
<b>None</b>	None	None	Standard, algebraic	Standard, algebraic	<b>ARITHMETIC CAPABILITY</b>
<b>BASIC, FORTRAN IV, COBOL</b>	None	None	None	None	<b>EDP CAPABILITY</b>
<b>Payroll, legal billing, data base mgt, gen ledg, inven</b>	None	None	Math, Sort, Rec. Mgmt., all part of basic soft	None	<b>Multiprogramming Compilers</b>
<b>Additional input stations, sheet feeder, draft printer, tape</b>	Fully adjustable forms feed tractor	None	Intelligent copier, OCR, wide track ptr., tractor feed, twin sheet feed, RS 232 devices	None	<b>Applications Software</b>
<b>July 1977 USA</b>	March 1979 West Germany	July 1980 West Germany	November 1979 USA	—	<b>PERIPHERALS</b>
<b>\$11,995</b>	\$5,475	\$6,675	\$11,900	90 day trial \$400/mo 24 mo \$525/mo 3rd party	<b>BACKGROUND INFORMATION</b>
<b>—</b>	—	3rd party	—	—	<b>First Delivery Date</b>
<b>—</b>	3rd party	—	—	—	<b>Country of Manufacture</b>
<b>\$95/mo</b>	\$548/yr	90 days, MSR support	\$900/yr	—	<b>Installed Base Estimate</b>
<b>30 days warranty, 3 day N.C. operator training</b>	90 day warranty, MSR support	90 days, key operator training, MSR support	—	—	<b>PRICING &amp; TERMS</b>
					<b>Purchase</b>
					<b>Rental</b>
					<b>Lease</b>
					<b>Maintenance</b>
					<b>Warranty &amp; Support</b>
					<b>REMARKS &amp; OTHER FEATURES</b>
					Upgradeable to shared resource cluster system

Standalone Word Processing Systems

COMPANY	Savin	Savin	Shasta General Systems	Shasta General Systems
MODEL	900 Word Master	950 Veritext	Diablo 3000*	Diablo 3200*
SYSTEM CONFIGURATION Configuration	Typewriter, cassette console	Typewriter	Keyboard/CRT, console printer	Keyboard/CRT, console, printer
Memory Size	—	—	32K to 64K	32K to 64K
Storage Media	Cassette	3M tape cartridge	Dual diskette	Diskette and/or disk
Storage Capacity	50K or 100K chars /	61K chars / cartridge	620K to 1.3 Mb	620K to 20 Mb
DISPLAY STATION FEATURES Screen Size & Type	Not Available	Not Available	12" diagonal	12" diagonal
Display Buffer Memory	Not Available	Not Available	6K chars	6K chars
Format & Capacity	Not Available	Not Available	24 lines x 80 chars	24 lines x 80 chars
Character Generation	Not Available	Not Available	7 x 9 dot matrix	7 x 9 dot matrix
Cursor Positioning	Not Available	Not Available	Up, down, left, right, home	Up, down, left, right, home
Vertical Scrolling	Not Available	Not Available	Standard	Standard
Horizontal Scrolling	Not Available	Not Available	Standard	Standard
Page Scrolling	Not Available	Not Available	Standard	Standard
Display Highlighting	Not Available	Not Available	Standard	Standard
Character Size Control	Not Available	Not Available	Standard	Standard
Character Pitch Display	Not Available	Not Available	None	None
Character Spacing Display	Not Available	Not Available	None	None
Line Spacing Display	Not Available	Not Available	None	None
Line Justify Display	Not Available	Not Available	None	None
Underscore Display	Not Available	Not Available	None	None
Sub-Superscript Display	Not Available	Not Available	Standard	Codes & Reverse highlight
Multi-Column Page Display	Not Available	Not Available	Codes only	Codes only
Stored Form Recall / Display	Not Available	Not Available	None	None
Control Code Display	Not Available	Not Available	Standard	Standard
Format Statement Display	Not Available	Not Available	Standard	Standard
PRINTER STATIONS FEATURES Printer Type & Speed	IBM Selectric 15.5 cps 200 chars	Qume daisy 45 cps 4096 chars	Diablo daisy wheel, 45 cps Up to 600K chars	Diablo daisy wheel, 45 cps Up to 600K chars
Printer Buffer Memory	10/12	10/12	10/12/proportional	10/12/proportional
Character Pitch / Spacing	134	13.2"	13.2"	13.2"
Writing Line Width	15.5"	15"	15"	15"
Carnage Paper Width	—	Standard	Standard	Standard
First Line Forms Advance	Standard	Standard	Standard	Standard
End Of Page Stop	Standard	Standard	Standard	Standard
Justified Printout	None	Standard	Standard	Standard
Sub-Superscript Printout	None	Standard	Standard	Standard
Non-Adjust Printout	Standard	None	Standard	Standard
Bi-directional Printout	None	None	Standard	Standard
Simultaneous Printout	None	None	Standard	Standard
GEN. FUNCTIONAL FEATURES Media Stored Format	None	Standard	Standard	Standard
Default Format Statement	None	Standard	Standard	Standard
Stored Multiple Formats	None	None	Standard	Standard
Machine Dialog / Menu Prompt	None	None	Standard	Standard
Forms Input	None	None	Standard	Standard
Control Character Printout	Standard	Standard	Standard	Standard
Printout Queuing	None	None	Standard	Line numbers only Standard
Revision & Status Reporting	None	None	Standard	Standard
System Security	None	None	None	None
TEXT INPUT FEATURES Auto Corner Return	None	Standard	Standard	Standard
Auto Word Wraparound	Standard	Standard	Standard	Standard
Auto Margin Adjust	Standard	Left only	Standard	Standard
Temporary Margins	None	—	Standard	Standard
Auto Decimal Tab	None	Standard	Standard	Standard
Hyphenation	Manual, 4- or 8-char Hot Zone	Manual, adjustable Hot Zone	Standard Ghost hyphens & adjustable Hot Zone	Standard Ghost hyphens & adjustable Hot Zone
REMARKS & OTHER FEATURES	—	—	*Manufactured by Xerox and distributed in the U.S. exclusively by Shasta General Systems.	*Manufactured by Xerox and distributed in the U.S. exclusively by Shasta General Systems.

Standalone Word Processing Systems

COMPANY	Savin	Savin	Shasta General Systems	Shasta General Systems	COMPANY
MODEL	900 Word Master	950 Veritext	Diablo 3000*	Diablo 3200*	MODEL
TEXT INPUT FEATURES (cont'd) Auto Input Underline	Standard Manual	Words or continuous Standard	Words or continuous Standard	Words or continuous Standard	Auto Centering
Auto Line Spacing	None	Standard	Standard	Standard	Auto Page Numbering
Auto Headers / Footers	None	Standard**	Standard**	Standard**	Auto Pagination
Auto Merge	None	Standard	Standard	Standard	TEXT EDIT & MERGE FEATURES
Document Assembly / Merge	Stored text merged w/ keyboard text	Stored text assembled via linking	Stored text merged with boiler plate, keyboard text	Stored text merged with boiler plate, keyboard text	Search Capability
By line numbers	By line numbers	By file & char string	By page, line, up to 10 strings of up to 75 chars C, W, S, & cursor specified block	By page, line, up to 10 strings of up to 75 chars C, W, S, & cursor specified block	Delete Capability
C, W, L	None	C, W, S, P. Page	Auto or discretionary of up to 5 strings of 75 chars	Auto or discretionary of up to 5 strings of 75 chars	Global Search & Replace
None	None	Standard, manual replace	Standard	Standard	Block Move / Copy
None	None	None	None	None	Column Move / Delete
None	None	Standard	Automatic	Automatic	Auto Repagination
None	None	Standard	Standard	Standard	Auto Widow Adjust
None	None	Optional	Optional	Optional	Auto File Sort
None	None	Optional	Optional	Optional	Auto File Select
None	None	Standard**	Standard**	Standard**	Auto Footnote Tie-In Term Dictionary / Glossary
None	None	Standard	Standard	Standard	COMMUNICATIONS Availability
None	None	Optional	Optional	Optional	Format & Speed
None	None	—	Optional Asynch, ASR, 110-9600 baud, ASCII or Binary data	Standard	ARITHMETIC CAPABILITY EDP CAPABILITY
None	None	Standard	Standard	Standard	Multiprogramming Compilers
None	None	DP foreground/background Standard	Full data processing Standard	Standard	Applications Software
None	None	None	Extensive library or user programmable 200 cps matrix or 300 lpm printers, sheet feeder, Winchester Disk	Standard	PERIPHERALS
None	None	Forms Feed, Sheet Feed	Standard	Standard	BACKGROUND INFORMATION
December 1972 USA	July 1975* USA	February 1980 USA	December 1976 USA	December 1976 USA	First Delivery Date
—	—	—	—	—	Country of Manufacture
\$2,995	\$6,395	\$15,950	\$19,950	\$19,950	Installed Base Estimate
Not available	\$260 (24-mo.)	—	—	—	PRICING & TERMS
\$79.37 (5-yr.)	\$189.47 (5-yr.)	—	—	—	Purchase
\$360/yr	\$75 (one-time installation fee)	—	—	—	Rental
90 days	90 days N/C operator training	—	—	—	Lease
—	—	—	—	—	Maintenance
—	—	—	—	—	Warranty & Support
REMARKS & OTHER FEATURES	*Savin acquired the OCI Veritext in 1977	*Manufactured by Xerox & distributed in the US exclusively by Shasta General Systems **Available fourth qtr 1980	*Manufactured by Xerox & distributed in the US exclusively by Shasta General Systems **Available fourth qtr 1980	*Manufactured by Xerox & distributed in the US exclusively by Shasta General Systems **Available fourth qtr 1980	REMARKS & OTHER FEATURES

### Standalone Word Processing Systems

COMPANY	Syntax	3M	3M	Universal Microcommunications
<b>MODEL</b>	Aquarius	4000 Information Processor*	System 84 Information Processor*	Universal Office Machine
<b>SYSTEM CONFIGURATION Configuration</b>	CRT workstation dual diskette drives, and keyboard or interface to IBM Electronic 50/60/75/96K Dual diskettes	Keyboard/CRT, diskette console, printer	CRT display, keyboard, 1 to 4 diskette drives, printer	Keyboard/CRT, console, printer, MPU, hard disk
<b>Memory Size Storage Media</b>	320K chars / diskette	16K Single or dual diskette	32K Diskette (1 to 4)	48K up to 30Mb Diskette / hard disk
<b>Storage Capacity DISPLAY STATION FEATURES</b>	15" diagonal CRT 2000 chars	180K chars / diskette	250K chars / diskette	256K or 512K chars
<b>Screen Size &amp; Type Display Buffer Memory Format &amp; Capacity</b>	25 lines x 80 chars (2000 chars total) 7 x 9 dot matrix Up, down, left, right, word, sentence, para	11" diagonal CRT 1440 chars	11" diagonal CRT —	13" diagonal CRT 8K, 16K, or 32K 48 lines x 80 chars (3840 chars expandable) 8 x 14 dot matrix Left, right, up, down, home
<b>Character Generation Cursor Positioning</b>	Standard	Forward only	Standard, forward only	Standard
<b>Vertical Scrolling Horizontal Scrolling Page Scrolling</b>	Standard	Format line only	Format line only	Standard
<b>Display Highlighting Character Size Control Character Pitch Display Character Spacing Display Line Spacing Display Line Justify Display Underscore Display Sub / Superscript Display Multi Column Page Display Stored Form Recall / Display Control Code Display Format Statement Display</b>	Standard	None	Forward only	Standard
<b>PRINTER STATIONS FEATURES</b>	Printer Type & Speed 2000 chars	Daisy wheel 30-45 cps	Qume 45 cps daisywheel	Nec thimble, 55 cps** 256 chars
<b>Printer Buffer Memory Character Pitch / Spacing Writing Line Width Carriage Paper Width First Line Forms Advance End-Of-Page Stop Justified Printout Sub / Superscript Printout Non-Adjust Printout Bidirectional Printout Simultaneous Printout</b>	10/12/15, proportional 13.2" 15"	10/12/15 13" 15"	10/12/15 prop (Level 3) 13" 15"	10/12 13" 15"
<b>GEN FUNCTIONAL FEATURES</b>	Standard	Standard	Standard	Standard
<b>Media Stored Format Default Format Statement Stored Multiple Formats Machine Dialog / Menu Prompt</b>	Standard	Standard	Standard	Standard
<b>Forms Input Control Character Printout Printout Queuing</b>	Optional* None None	Standard	Standard	Standard
<b>Revision &amp; Status Reporting</b>	Optional**	None	None	Optional
<b>System Security</b>	Standard	None	Standard	Password
<b>TEXT INPUT FEATURES</b>	Standard	Standard	Standard	Standard
<b>Auto Carrier Return Auto Word Wraparound Auto Margin Adjust Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab Hyphenation</b>	Standard — manual	Standard Manual	Standard Manual	Standard
<b>REMARKS &amp; OTHER FEATURES</b>	*Basic software pkg **Advanced function pkg	*3M has discontinued manufacture of the 4000, but continues service & support.	*Available with three levels of word processing software	*512K chars / double density and 14.5 or 29Mb hard disk available **210 cps ink-jet spray printer also avail with 2K buffer Special order forms for Japanese, Chinese, Korean, Arabic & Hebrew available

### Standalone Word Processing Systems

Syntax	3M	3M	Universal Microcommunication	COMPANY
<b>Aquarius</b>	4000 Information Processor	System 84 Information Processor	Universal Office Machine	<b>MODEL</b>
<b>Standard Standard</b>	Standard Standard	Standard Standard	Standard Standard	<b>TEXT INPUT FEATURES (cont'd)</b> Auto Input Underline Auto Centering
<b>Standard Optional* Optional* Standard</b>	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard	Auto Line Spacing Auto Page Numbering Auto Headers / Footers Auto Pagination TEXT EDIT & MERGE FEATURES Document Assembly / Merge
<b>Optional**</b>	Stored text assembled & merged w/ keyboarded text to form new document	Standard (Level 2) stored text assembled & merged w/ keyboarded text, letter writing capability	Stored text assembled & merged w/ keyboarded text	<b>Search Capability</b>
<b>By page, doc, char string, and cursor pos C, W, L, S, para., page, document</b>	20 search & replace operations simultaneously	Standard, to 20 occurrences simultaneously	Doc. & page no., cursor control, & char. string C, L, document, specified block, file, disk Standard	<b>Delete Capability</b>
<b>Standard</b>	Standard	Standard	Standard	<b>Global Search &amp; Replace</b>
<b>Standard</b>	Standard	Standard	Standard	<b>Block Move / Copy</b>
<b>Standard</b>	Standard	Standard	Standard	<b>Column Move / Delete</b>
<b>Standard</b>	Standard	Standard	Standard	<b>Auto Repagination</b>
<b>Standard</b>	None	Standard (Level 3)	None	<b>Auto Widow Adjust</b>
<b>Optional***</b>	Optional	Standard (Level 2)	Standard	<b>Auto File Sort</b>
<b>Optional***</b>	Standard	Standard (Level 2)	Standard	<b>Auto File Select</b>
<b>Optional* Optional*</b>	None None	None None	Standard None	<b>Auto Footnote Tie-In Term Dictionary / Glossary</b>
<b>Standard</b>	Optional ASCII Telex, TWX, Syntrex to Syntrex	Optional Asynch 2741, TTY 110-1200 baud, Bisynch 2780 24800 baud	Standard 2770, 2780, or ASCII-compt. or videotype-to-videotype Standard Standard Optional	<b>COMMUNICATIONS Availability Format &amp; Speed</b>
<b>Optional*** None None None</b>	None Assembler	None Assembler	Standard Standard	<b>ARITHMETIC CAPABILITY EDP CAPABILITY Multiprogramming Compilers</b>
<b>None</b>	—	—	Gen'l Purpose Acctg., Legal Billing / Reporting*, Photocomp., hard disk, optical digitizer, digitizing tablet, paper tape punch and reader telex July 1979 USA	<b>Applications Software</b>
<b>Communications, Shared Device Interface, Adv Functions Software, Clustered Sys Connect August 1980 USA</b>	Mag card reader, computer tape interface RS-232 devices, photo-composer interface September 1975 USA	Sheet feeder, peripheral switch (4 workstations to 1 peripheral)* July 1979 USA	—	<b>PERIPHERALS</b>
<b>\$7,590**** \$5,990*****</b>	\$4,990 (single disk) \$5,990 (dual diskette) \$511*	\$10,595**	Pricing available	<b>BACKGROUND INFORMATION First Delivery Date Country of Manufacture Installed Base Estimate PRICING &amp; TERMS Purchase</b>
<b>\$372 (2-yr)**** \$294 (2-yr)***** \$80**** \$40**** 90 days parts and labor with classroom training</b>	\$577* \$360 (5-yr) \$407 \$95 / mo \$106 / mo 6 months N/C operator training	—	3rd party	<b>Rental Lease</b>
<b>*Adv Function Pkg **Separate Software Pkg ***Basic Software Pkg ****Aquarius workstation w/ IBM Electronic Typewriter, VDT, and keyboard *****Aquarius workstation, VDT, and keyboard or interface to IBM 50 or 60 Electronic Typewriter</b>	*Rental prices include maintenance.	*Mag Card reader, computer tape interface, RS-232 devices, photo-compt. interface **Cost for CRT, keyboard, printer, dual-diskette drives, Level 2 word processing software	Standard (swap-out, 3 hr. component replace) 60 days	<b>Maintenance Warranty &amp; Support</b>
			*Custom House Freight Forwarding, Drawback, Medical pkg., Legal Collection, others avail. incl. custom	<b>REMARKS &amp; OTHER FEATURES</b>

## Standalone Word Processing Systems

COMPANY	Vector Graphic	Vector Graphic	Vydec	Vydec
<b>MODEL</b>	MEMORITE 2	MEMORITE 3	1146	1200
<b>SYSTEM CONFIGURATION</b> Configuration	Keyboard/CRT, dual diskette console, printer	Keyboard/CRT, diskette console, printer	Keyboard/CRT, diskette console, printer	Keyboard/CRT, diskette console, printer
<b>Memory Size</b>	56K	56K	—	—
<b>Storage Media</b>	Dual diskette	Dual diskette	Diskette	Diskette
<b>Storage Capacity</b>	315K chars./diskette	315K chars./diskette	225K chars./diskette	250K chars./diskette
<b>DISPLAY STATION FEATURES</b>				
<b>Screen Size &amp; Type</b>	12" diagonal CRT 1920 characters	12" diagonal CRT 1920 characters	8" x 10.5" CRT 4093 chars	8" x 10.5" CRT 4093 chars
<b>Display Buffer Memory</b>	24 lines x 80 chars	24 lines x 80 chars	64 lines x 96 chars (4093 chars total)*	64 lines x 96 chars (4093 chars total)*
<b>Format &amp; Capacity</b>			Stroke writing	Stroke writing
<b>Character Generation</b>	7 x 9 dot matrix	7 x 9 dot matrix	Left, right, up, down, home	Left, right, up, down, home
<b>Cursor Positioning</b>	beg & end of screen*	beg & end of screen*	Standard	Standard
<b>Vertical Scrolling</b>	None	None	None	None
<b>Horizontal Scrolling</b>	Standard, fwd & bkwd	Standard, fwd & bkwd	Standard	Standard
<b>Page Scrolling</b>	None	None	Flash & intensify	Flash & intensify
<b>Display Highlighting</b>	None	None	Optional	Optional
<b>Character Size Control</b>	None	None	None	None
<b>Character Pitch Display</b>	None	None	None	None
<b>Character Spacing Display</b>	None	None	Standard	Standard
<b>Line Spacing Display</b>	None	None	None	None
<b>Line Justify Display</b>	None	None	Standard	Standard
<b>Underscore Display</b>	Codes only	Codes only	Code only	Code only
<b>Sub-Superscript Display</b>	Codes only	Codes only	Manual	Manual
<b>Multi-Column Page Display</b>	None	Optional	Standard	Standard
<b>Stored Form Recall/Display</b>	Standard	Standard	Space & return	Space & return
<b>Control Code Display</b>	Standard	Standard	—	—
<b>Format Statement Display</b>	Standard	Standard	—	—
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Qume daisy, 55 cps	Qume daisy, 55 cps	Daisy wheel 45 cps	Daisy wheel 45 cps**
<b>Printer Buffer Memory</b>	None	None	4093 chars	4093 chars
<b>Character Pitch/Spacing</b>	1 to 20 chars./inch	Variable/proportional	10/12	10/12
<b>Writing Line Width</b>	12 1/2"	12 1/2"	13"	13"
<b>Carnage Paper Width</b>	15"	15"	14"	14"
<b>First Line Forms Advance</b>	Standard	Standard	None	Standard
<b>End Of Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub-Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bi-directional Printout</b>	Standard	Standard	None	Standard
<b>Simultaneous Printout</b>	None	None	Standard	Standard
<b>GEN. FUNCTIONAL FEATURES</b>				
<b>Media-Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog/Menu Prompt</b>	Simple instruction format & cue	Simple instruction format	Communications & Text	Communications, AutoPrint, Text Printer
<b>Forms Input</b>	None	Standard	Printer	Standard
<b>Control Character Printout</b>	None	None	None	Standard
<b>Printout Queuing</b>	None	None	Optional**	Optional***
<b>Revision &amp; Status Reporting</b>	Standard	Standard	None	None
<b>System Security</b>	None	Standard	None	None
<b>TEXT INPUT FEATURES</b>				
<b>Auto Corner Return</b>	Standard	Standard	None	None
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	2-step command	2-step command
<b>Auto Decimal Tab</b>	None	None	None	None
<b>Hyphenation</b>	—	—	Manual, 8-char Hot Zone	Manual, 8-char Hot Zone
<b>REMARKS &amp; OTHER FEATURES</b>	*Beginning & end of text.	*Beginning & end of text.	*Optional 25 lines x 160 chars (4000 total) **With Text Printer	*Optional 25 lines x 160 chars (4000 total) **Optional wide document printer ***With AutoPrint & Text Printer

## Standalone Word Processing Systems

COMPANY	Vector Graphic	Vydec	Vydec	COMPANY
<b>MODEL</b>	MEMORITE 2	MEMORITE 3	1146	1200
<b>TEXT INPUT FEATURES (cont'd)</b>				
<b>Auto Input Underline</b>	Standard	Standard	None	Standard
<b>Auto Centering</b>	Standard	Standard	None	None
<b>Auto Line Spacing</b>	Standard	Standard	None	Standard
<b>Auto Page Numbering</b>	Standard	Standard	None	Optional*
<b>Auto Headers/Footers</b>	Standard	Standard	None	Optional*
<b>Auto Pagination</b>	Standard	Standard	None	Optional*
<b>TEXT EDIT &amp; MERGE FEATURES</b>				
<b>Document Assembly/Merge</b>	Stored text assembled & merged w/keyboard text, continuous document oriented*	Stored text assembled & merged w/keyboard text to form new document	Stored text assembled by para. & merged w/keyboard text to form new document	Stored text assembled by para. & merged w/keyboard text to form new document
<b>Search Capability</b>	C, W, L char string from cursor position*	C, W, L char string from cursor position	By page no. & cursor position	By page no. & cursor position
<b>Delete Capability</b>	C, W, S, partial/full line, para. specified block*	C, W, S, partial/full line, para. specified block*	Automatically through entire document	Automatically through entire document
<b>Global Search &amp; Replace</b>	None	None	None	None
<b>Block Move/Copy</b>	Standard*	Standard*	Standard, 1 page max	Standard, 1 page max
<b>Column Move/Delete</b>	None	None	Manual or via stored program	Manual or via stored program
<b>Auto Repagination</b>	Standard*	Standard*	Manual	Optional*
<b>Auto Widow Adjust</b>	None	None	None	Optional*
<b>Auto File Sort</b>	Standard	Standard	None	Optional*
<b>Auto File Select</b>	Standard	Standard	None	Optional*
<b>Auto Footnote Tie-In</b>	None	None	None	None
<b>Term Dictionary/Glossary</b>	None	None	None	None
<b>COMMUNICATIONS</b>				
<b>Availability</b>	Available	Available	Optional	Optional
<b>Format &amp; Speed</b>	Asynch ASCII, Memorite to Memorite	Asynch or Bisynch, Memorite to Memorite	Vydec internal at 1200 baud	Vydec internal at 1200 baud, 2780, 3780, 2741, TTY
<b>ARITHMETIC CAPABILITY</b>	None	None	None	None
<b>EDP CAPABILITY</b>	Standard**	Standard	None	None
<b>Multiprogramming</b>	Basic FORTRAN, COBOL, PASCAL	Basic FORTRAN, COBOL, PASCAL	None	None
<b>Compilers</b>	Mailing Lst, Data Mgmt., Gen Purpose Actng	Mailing Lst, Data Mgmt., Gen Purpose Actng	None	None
<b>Applications Software</b>	Additional disk storage, Auto Sheet Feeder	Additional disk storage, Auto Sheet Feeder	None	None
<b>PERIPHERALS</b>	Photocomposition interface, paper tape punch wide doc printer RS-232 devices	Photocomposition interface, paper tape punch wide doc printer RS-232 devices	Comp interface, mag card conv, paper tape punch, RS-232 devices**	Comp interface, mag card conv, paper tape punch, RS-232 devices**
<b>BACKGROUND INFORMATION</b>	December 1978 USA 3,000	November 1980 USA	October 1973 USA	June 1976 USA
<b>First Delivery Date</b>	\$8,400***	\$8,400**	\$7,500	\$12,200
<b>Country of Manufacture</b>	—	—	\$415 (24-mo)	\$505 (12-mo) \$445 (24-mo)
<b>Installed Base Estimate</b>	—	—	3rd party	3rd party
<b>PRICING &amp; TERMS</b>	Dealer maintenance	Dealer Maintenance	\$720	\$840
<b>Purchase</b>	90 day warranty	90 day warranty	60 days	60 days
<b>Rental</b>				
<b>Lease</b>				
<b>Maintenance</b>				
<b>Warranty &amp; Support</b>				
<b>REMARKS &amp; OTHER FEATURES</b>	*High Speed Search due to memory storage of 20 pages at one time **High Speed search due to memory storage of 20 pages at one time ***System comes with CP/M standard operating system	Spelling Correction Dictionary *High Speed search due to memory storage of 20 pages at one time **System comes with CP/M std operating sys	*With AutoPrint & Text Printer **Standalone Text Station & Text Printer available	*With AutoPrint & Text Printer **Standalone Text Station & Text Printer available



Standalone Word Processing Systems

COMPANY	Vydec	Vydec	Vydec	Vydec
MODEL	1400	1800	2000	4200
SYSTEM CONFIGURATION Configuration	Keyboard/CRT, diskette console, printer	Keyboard/CRT, diskette console, printer	Integral CRT/keyboard/printer	CRT/keyboard, dual mini-diskette drives, printer
Memory Size	24K+ editing firmware	24K+ editing firmware	64K	64K + 16K (comm)
Storage Media	Dual diskette	Dual diskette	Single mini-diskette	Dual mini-diskettes
Storage Capacity	250K chars / diskette	250 chars / diskette	150K chars / diskette	150K chars / diskette
DISPLAY SIZE & Type	8" x 10.5" CRT	8" x 10.5" CRT	8" CRT	19" CRT*
Display Buffer Memory	4093 chars	4093	16K	16K
Format & Capacity	64 lines x 96 chars (4093 chars total)* Stroke writing	64 lines x 96 chars (4093 chars total)* Stroke writing	12 lines x 80 chars	69 lines x 256 chars
Character Generation	Standard	Standard	Vector	Vector
Cursor Positioning	Left, right, up, down, home, reverse home	Left, right, up, down, home, reverse home	Left, right, up, down, home	Left, right, up, down, home
Vertical Scrolling	Standard	Standard	Standard	Standard
Horizontal Scrolling	None	None	Standard, to 256 chars	Standard, to 256 chars
Page Scrolling	Standard	Standard	Standard	Standard
Display Highlighting	Flash & intensify	Flash & intensify	Intensify	Intensify
Character Size Control	Optional	Optional	None	Standard
Character Pitch Display	None	None	None	Standard
Character Spacing Display	None	None	None	Standard
Line Spacing Display	Standard	Standard	None	Standard
Line Justify Display	None	None	None	Standard
Underscore Display	Standard	Standard	Standard	Standard
Sub-Superscript Display	Code only	Code only	Standard	Standard
Multi-Column Page Display	Manual	Manual	Standard	Standard
Stored Form Recall / Display	Standard	Standard	Standard	Standard
Control Code Display	Space & return	Space & return	Standard	Standard
Format Statement Display	—	—	Standard	Standard
PRINTER STATIONS FEATURES				
Printer Type & Speed	Daisy wheel 45 cps**	Daisy wheel 45 cps**	Vydec daisywheel, 30 cps 4K	Vydec daisywheel, 45 cps 4K
Printer Buffer Memory	4093 chars	4093 chars	8, 10, 12, 15, prop	8, 10, 12, 15, prop
Character Pitch / Spacing	10/12	10/12	13"	13.2" or 22"
Writing Line Width	13"	13"	14"	15" or 26"
Carriage Paper Width	14"	14"	15"	15"
First Line Forms Advance	Standard	Standard	Standard	Standard
End-Of-Page Stop	Standard	Standard	Standard	Standard
Justified Printout	Standard	Standard	Standard	Standard
Sub-Superscript Printout	Standard	Standard	Standard	Standard
Non-Adjust Printout	Standard	Standard	Standard	Standard
Bidirectional Printout	Standard	Standard	Standard	Standard
Simultaneous Printout	Standard	Standard	Standard	Standard
GEN. FUNCTIONAL FEATURES				
Media Stored Format	Standard	Standard	Standard	Standard
Default Format Statement	Standard	Standard	Standard	Standard
Stored Multiple Formats	Standard	Standard	Standard	Standard
Machine Dialog / Menu Prompt	Communications, AutoPrint	Communications & software packages	Standard	Standard
Text Printer	Standard	Standard	Standard	Standard
Forms Input	Standard	Standard	Standard	Standard
Control Character Printout	None	None	None	None
Printout Queuing	Optional***	Optional***	Standard, by document	Standard, by document
Revision & Status Reporting	None	None	Standard	Standard
System Security	None	None	Standard	Standard
TEXT INPUT FEATURES				
Auto Carriage Return	Standard	Standard	Standard	Standard
Auto Word Wraparound	Standard	Standard	Standard	Standard
Auto Margin Adjust	Standard	Standard	Standard	Standard
Temporary Margins	Standard	Standard	Standard	Standard
Auto Decimal Tab	Standard	Standard	Standard	Standard
Hyphenation	Manual, 8-char Hot Zone	Manual, 8-char Hot Zone	Standard Semi-automatic, adjustable hot zone	Standard Semi-automatic, adjustable hot zone
REMARKS & OTHER FEATURES	*Optional 25 lines x 160 chars (4000 total) **Optional wide document printer ***With AutoPrint & Text Printer	*Optional 25 lines x 160 chars (4000 total) **Optional wide document printer ***With Text Printer		*Wide screen may be used to show extra wide pages, may be split to show two consecutive pages of a document, or pages of different documents

Standalone Word Processing Systems

COMPANY	Vydec	Vydec	Vydec	Vydec
MODEL	1400	1800	2000	4200
TEXT INPUT FEATURES (cont'd)	Standard None	Standard None	Standard Standard	Standard Standard
Auto Input Underline	Standard	Standard	Standard	Standard
Auto Centering	Optional*	Standard	Standard	Standard
Auto Line Spacing	Optional*	Standard	Standard	Standard
Auto Page Numbering	Optional*	Standard	Standard	Standard
Auto Headers / Footers	Optional*	Standard	Standard	Standard
Auto Pagination	Optional*	Standard	Standard	Standard
TEXT EDIT & MERGE FEATURES				
Document Assembly / Merge	Stored text assembled by para. & merged w/ keyboarded text to form new document by page no. & cursor position C, L	Stored text assembled by para. & merged w/ keyboarded text to form new document by page no., cursor or record key C, L	Stored text assembled & merged w/ keyboarded text, or assembled in background by page no., paragraph, document, or char string C, W, L, Para., Page, Block, Document	Stored text assembled & merged w/ keyboarded text by page no., paragraph, document, or char string C, W, L, Para., Page, Block, Document
Search Capability	None	Std. up to 50 text strings	Standard	Standard
Delete Capability	None	None	Standard	Standard
Global Search & Replace	None	None	Standard	Standard
Block Move / Copy	Standard, 1 page max	Standard, 1 page max	Standard	Standard
Column Move / Delete	Manual or via stored program	Manual or through decimal alignment	Standard	Standard
Auto Repagination	Optional*	Standard	Standard	Standard
Auto Widow Adjust	Optional*	Standard	Standard	Standard
Auto File Sort	Optional*	Optional	Optional	Optional
Auto File Select	None	None	None	None
Auto Footnote Tie-In	None	None	None	None
Form Dictionary / Glossary	None	None	None	None
COMMUNICATIONS				
Availability	Optional	Optional	Optional	Optional
Format & Speed	Vydec internal at 1200 baud, 2780, 3780, 2741 baud, TTY	Optional internal at 1200 baud, 2780, 3780, 2741, TTY	Optional Int. modem, 300 bps, or ext. modem, 1200 bps, ASCII TTY, Telex, TWX*	Optional Int. modem, 300 bps, or ext. modem, 1200 bps, ASCII TTY, 2780, 3780
ARITHMETIC CAPABILITY	None	None	None	None
EDP CAPABILITY	None	None	None	None
Multiprogramming Compilers	None	None	None	None
Applications Software	None	None	None	None
PERIPHERALS	Comp. interface, mag card conv., paper tape punch, OCR, wide doc. printer, RS-232 devices** June 1976 USA	Comp. interface, mag card conv., paper tape punch, OCR, wide doc. printer, RS-232 devices* March 1980 USA	None	Wide Document Printer
BACKGROUND INFORMATION	\$12,400	\$13,700	\$9,990	\$14,900
First Delivery Date	May 1980 USA	September 1980 USA	—	—
Country of Manufacture	USA	USA	USA	USA
Installed Base Estimate	—	—	—	—
PRICING & TERMS	\$540 (12-mo) \$485 (24-mo) 3rd party	\$615 (12-mo) \$553 (24-mo) 3rd party	\$450 (12-mo) \$412 (24-mo) Available	\$645 (12-mo) \$590 (24-mo) Available
Purchase	\$960	\$1,360/yr	\$780/year	\$1,140/year
Rental	60 days	60 days	60 days	60 days
Lease	—	—	—	—
Maintenance	—	—	—	—
Warranty & Support	—	—	—	—
REMARKS & OTHER FEATURES	*With AutoPrint & Text Printer **Standalone Text Station & Text Printer available	*Standalone Text Station & Text Printer available	*Choice of one	

### Standalone Word Processing Systems

COMPANY	Wytec	Wang	Willow Associates	Willow Associates
<b>MODEL</b>	4400	WPS5	MT-100*	MC-100*
<b>SYSTEM CONFIGURATION</b>				
<b>Configuration</b>	CRT, keyboard, dual diskette drives, printer	Keyboard/CRT/diskette console, printer	Typewriter, tape console	Typewriter, card console
<b>Memory Size</b>	64K + 16K (comm.)	48K	—	—
<b>Storage Media</b>	Dual diskette	Dual diskette	Cassette	Magnetic card
<b>Storage Capacity</b>	250K chars./diskette	300K chars./diskette	80K chars./diskette	10K chars./card
<b>DISPLAY STATION FEATURES</b>				
<b>Screen Size &amp; Type</b>	19" CRT*	12" diagonal CRT	Not Available	Not Available
<b>Display Buffer Memory</b>	16K	—	Not Available	Not Available
<b>Format &amp; Capacity</b>	69 lines x 256 chars.	24 lines x 80 chars (1920 chars. total)	Not Available	Not Available
<b>Character Generation</b>	Vector	8 x 8 dot matrix	Not Available	Not Available
<b>Cursor Positioning</b>	Left, right, up, down, home	Left, right, up, down	Not Available	Not Available
<b>Vertical Scrolling</b>	Standard	Standard	Not Available	Not Available
<b>Horizontal Scrolling</b>	Standard to 256 chars.	Standard*	Not Available	Not Available
<b>Page Scrolling</b>	Standard	Standard	Not Available	Not Available
<b>Display Highlighting</b>	Intensity	Standard	Not Available	Not Available
<b>Character Size Control</b>	Standard	None	Not Available	Not Available
<b>Character Pitch Display</b>	Standard	None	Not Available	Not Available
<b>Character Spacing Display</b>	Standard	None	Not Available	Not Available
<b>Line Spacing Display</b>	Standard	None	Not Available	Not Available
<b>Line Justify Display</b>	Standard	None	Not Available	Not Available
<b>Underscore Display</b>	Standard	Standard	Not Available	Not Available
<b>Sub-Superscript Display</b>	Standard	Code only	Not Available	Not Available
<b>Multi-Column Page Display</b>	Standard	Manual	Not Available	Not Available
<b>Stored Form Recall/Display</b>	Standard	Standard	Not Available	Not Available
<b>Control Code Display</b>	Standard	Standard	Not Available	Not Available
<b>Format Statement Display</b>	Standard	Standard	Not Available	Not Available
<b>PRINTER STATION FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Wytec daisywheel, 45 cps	Wang daisy wheelprinter	IBM Selectric 15.5 cps	IBM Selectric 15.5 cps
<b>Printer Buffer Memory</b>	4K	—	—	—
<b>Character Pitch/Spacing</b>	8, 10, 12, 15 prop	10, 12, prop*	10/12	10/12
<b>Writing Line Width</b>	13.2" or 22"	13.2"	13"	13"
<b>Carriage Paper Width</b>	15" or 26"	15"	15.5"	15.5"
<b>First Line Forms Advance</b>	Standard	Standard	None	None
<b>End-Of-Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	None	None
<b>Sub-Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	None	None
<b>Bi-directional Printout</b>	Standard	Standard	None	None
<b>Simultaneous Printout</b>	Standard	Standard	None	None
<b>GEN. FUNCTIONAL FEATURES</b>				
<b>Media Stored Format</b>	Standard	Standard	None	None
<b>Default Format Statement</b>	Standard	Standard	None	None
<b>Stored Multiple Formats</b>	Standard	Standard	None	None
<b>Machine Dialog/Menu Prompt</b>	Standard	Start-Up Summary, Playout & Spec menus	Standard via Glossary*	Standard
<b>Forms Input</b>	Standard	Standard	Standard	Standard
<b>Control Character Printout</b>	None	None	None	None
<b>Printout Queuing</b>	Standard, by document	Document Index & list	None	None
<b>Revision &amp; Status Reporting</b>	Standard	Document summary gives revision status	None	None
<b>System Security</b>	Standard	Document password (Model 3 only)	—	—
<b>TEXT INPUT FEATURES</b>				
<b>Auto Carriage Return</b>	Standard	Standard	None	None
<b>Auto Word Wraparound</b>	Standard	Standard	None	None
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab Hyphenation</b>	Standard	Standard	None	None
	Semi-automatic, adjustable hot zone	Manual, adjustable Hot Zone	Manual, 7-char Hot Zone	Manual, 7-char Hot Zone
<b>REMARKS &amp; OTHER FEATURES</b>	*Wide screen may be used to show extra wide pages, may be split to show two consecutive pages of a document, or pages of different documents.	Models II & III	*Formerly marketed by Sperry Univac.	*Formerly marketed by Sperry Univac.

### Standalone Word Processing Systems

Wytec	Wang	Willow Associates	Willow Associates	COMPANY
4400	WPS 5	MT-100	MC-100	<b>MODEL</b>
Standard	Standard	Standard	Standard	<b>TEXT INPUT FEATURES (cont'd)</b>
Standard	Standard	Standard	Standard	Auto Input Underline
Standard	Standard	Standard	Standard	Auto Centering
Standard	Standard	None	None	Auto Line Spacing
Standard	Standard	None	None	Auto Page Numbering
Standard	Standard	None	None	Auto Headers/Footers
Standard	Standard	None	None	Auto Pagination
<b>Stored text assembled &amp; merged w/keyboarded text</b>	Assemble stored paragraphs by no. *	Stored text merged w/keyboarded text	Stored text merged w/keyboarded text	<b>TEXT EDIT &amp; MERGE FEATURES</b>
By page no., paragraph, document, or char string	By char string	By stop codes	By stop codes	Document Assembly/Merge
C, W, L, Para, Page, Block, Document	C, W, L, S, P	C, W, L	C, W, L	<b>Search Capability</b>
Standard	Standard, max. 40 char string, manual or auto replacement	Next occurrence, manual deletion or replacement	Next occurrence, manual deletion or replacement	<b>Delete Capability</b>
<b>Standard</b>	Standard*	None	None	<b>Global Search &amp; Replace</b>
Standard	Standard*	None	None	<b>Block Move/Copy</b>
Standard	Scan before printout, operator controlled	None	None	<b>Column Move/Deletes</b>
Standard	None	None	None	<b>Auto Repagination</b>
Optional	Standard*	None	None	<b>Auto Widow Adjust</b>
Optional	Standard*	None	None	<b>Auto File Sort</b>
Standard	Standard*	None	None	<b>Auto File Select</b>
Standard	Standard*	None	None	<b>Auto Footnote Tie-In</b>
Optional	—	Optional Synchronous EBCDIC, IBM 2741-compat. at 14.8 cps	Optional Synchronous EBCDIC, IBM 2741-compat. at 14.8 cps	<b>Term Dictionary/Glossary</b>
Optional	TTY 2741 Async at 300-1200 baud, 2780, 3780, Bsynch up to 2400 baud	None	None	<b>COMMUNICATIONS</b>
None	None	None	None	Availability
None	None	None	None	Format & Speed
None	None	None	None	<b>ARITHMETIC CAPABILITY</b>
None	None	None	None	EDP CAPABILITY
None	None	None	None	Multi-programming
None	None	None	None	Compilers
<b>Wide Document Printer</b>	Twin sheet feeder, wide carriage printer, shared printer interface	<b>Computer tape, photo-composition interfaces</b>	Computer tape interface	<b>Applications Software</b>
September 1980	—	1972* USA	1972* USA	<b>PERIPHERALS</b>
USA	—	—	—	<b>BACKGROUND INFORMATION</b>
\$15,500	\$5,900 (Model II), \$7,900 (Model III), \$8,400 (Mod. III)	\$3,500	\$3,500	First Delivery Date
\$670 (12 mo.)	\$278 (Model II), \$372 (Model III), \$466 (Model III) 3rd party	\$80**	\$80**	Country of Manufacture
\$613 (24 mo.)	—	—	—	Installed Base Estimate
—	—	—	—	<b>PRICING &amp; TERMS</b>
\$1,140/year	\$40 mo	\$52/mo. from Univac	\$52/mo. from Univac	Purchase
60 days	90 days	—	—	Rental
				Lease
				Maintenance
				Warranty & Support
	<b>*Models II &amp; III</b>	*Sperry sold remaining inventory to Willow in 1977. **80% rental credit avail. from Willow; dealer rates may differ	*Sperry sold remaining inventory to Willow in 1977. **80% rental credit avail. from Willow; dealer rates may differ	<b>REMARKS &amp; OTHER FEATURES</b>

Standalone Word Processing Systems

COMPANY	Willow Associates	Willow Associates	Wordplex	Wordplex
MODEL	MT-200*	MC 200*	Wordplex 1	Wordplex 2
SYSTEM CONFIGURATION Configuration	Typewriter, tape console	Typewriter, card console	Keyboard/CRT/diskette console, printer	Keyboard/CRT/mini-diskettes, printer
Memory Size	—	—	48K	48K
Storage Media	Dual cassette	Dual magnetic card	Dual diskette	Dual diskette
Storage Capacity	80K chars./cassette	10K chars./card	250K chars./diskette	161K chars./diskette
DISPLAY STATION FEATURES				
Screen Size & Type	Not Available	Not Available	12" diagonal CRT	12" diagonal CRT
Display Buffer Memory	Not Available	Not Available	24 lines x 80 chars (1920 chars, total)	24 lines x 80 chars (1920 chars, total)
Format & Capacity	Not Available	Not Available	7 x 11 dot matrix	7 x 11 dot matrix
Character Generation	Not Available	Not Available	Left, right, up, down, home	Left, right, up, down, home
Cursor Positioning	Not Available	Not Available	Standard	Standard
Vertical Scrolling	Not Available	Not Available	Up to 128-char line	Up to 128-char line
Horizontal Scrolling	Not Available	Not Available	Standard	Standard
Page Scrolling	Not Available	Not Available	None	None
Display Highlighting	Not Available	Not Available	None	None
Character Size Control	Not Available	Not Available	None	None
Character Pitch Display	Not Available	Not Available	None	None
Character Spacing Display	Not Available	Not Available	None	None
Line Spacing Display	Not Available	Not Available	Standard	Standard
Line Justify Display	Not Available	Not Available	Standard	Standard
Underscore Display	Not Available	Not Available	Standard	Standard
Sub-Superscript Display	Not Available	Not Available	Code only	Code only
Multi-Column Page Display	Not Available	Not Available	Standard	Standard
Stored Form Recall Display	Not Available	Not Available	Standard	Standard
Control Code Display	Not Available	Not Available	Standard	Standard
Format Statement Display	Not Available	Not Available	Standard	Standard
PRINTER STATIONS FEATURES				
Printer Type & Speed	IBM Selectric 15.5 cps	IBM Selectric 15.5 cps	Daisy wheel 45 or 55 cps	45/55 cps daisy wheel
Printer Buffer Memory	—	—	8K	8K
Character Pitch Spacing	10/12	10/12	10/12	10/12
Writing Line Width	13"	13"	13"	13"
Carriage Paper Width	15.5"	15.5"	15"	15"
First Line Forms Advance	None	None	Standard	Standard
End Of Page Stop	Standard	Standard	Standard	Standard
Justified Printout	None	None	Standard	Standard
Sub-Superscript Printout	None	None	Standard	Standard
Non-Adjust Printout	Standard	Standard	Standard	Standard
Bi-directional Printout	None	None	Standard	Standard
Simultaneous Printout	None	None	Standard	Standard
GEN. FUNCTIONAL FEATURES				
Media Stored Format	None	None	Standard	Standard
Default Format Statement	None	None	Standard	Standard
Stored Multiple Formats	None	None	Standard	Standard
Machine Dialog/Menu Prompt	None	None	Cue before deletion of document	Cue before deletion of document
Forms Input	—	—	—	—
Control Character Printout	Standard	Standard	Standard	Standard
Printout Queuing	None	None	Standard	Standard
Revision & Status Reporting	None	None	Standard	Standard
System Security	—	—	—	—
TEXT INPUT FEATURES				
Auto Carriage Return	None	None	Standard	Standard
Auto Word Wraparound	None	None	Standard	Standard
Auto Margin Adjust	Standard	Standard	Standard	Standard
Temporary Margins	Standard	Standard	Standard	Standard
Auto Decimal Tab	None	None	Standard	Standard
Hyphenation	Manual, 7-char Hot Zone	Manual, 7-char Hot Zone	Manual, adjustable Hot Zone	Manual, adjustable Hot Zone
REMARKS & OTHER FEATURES	*Formerly marketed by Sperry Univac.	*Formerly marketed by Sperry Univac.		

Standalone Word Processing Systems

Willow Associates	Willow Associates	Wordplex	Wordplex	COMPANY
MT-200	MC-200	Wordplex 1	Wordplex 2	MODEL
Standard Standard	Standard Standard	Standard Standard	Standard Standard	TEXT INPUT FEATURES (cont'd)
None	None	Standard	Standard	Auto Input Underline
None	None	Standard	Standard	Auto Centering
None	None	Standard	Standard	Auto Line Spacing
None	None	Standard	Standard	Auto Page Numbering
None	None	Standard	Standard	Auto Headers / Footers
None	None	Standard	Standard	Auto Pagination
None	None	Standard	Standard	TEXT EDIT & MERGE FEATURES
Stored text assembled & merged w/ keyboarded text	Text from each card assembled & merged w/ keyboarded text	Stored text assembled & merged w/ keyboarded text to form new document	Stored text assembled & merged w/ keyboarded text to form new document	Document Assembly/Merge
By stop codes	By stop codes	By doc. name, page no & cursor position	By doc. name, page no & cursor position	Search Capability
C. W. L	C. W. L	C. W. L, S, P	C. W. L, S, P	Delete Capability
Next occurrence, manual deletion or replacement	Next occurrence, manual deletion or replacement	Standard, search only w/in page, manual replacement	Standard, search only w/in page, manual replacement	Global Search & Replace
None	None	Standard	Standard	Block Move / Copy
None	None	Standard	Standard	Column Move / Delete
None	None	Standard	Standard	Auto Repagination
None	None	None	None	Auto Widow Adjust
None	None	Standard	Standard	Auto File Sort
None	None	Standard	Standard	Auto File Select
None	None	None	None	Auto Footnote Tie-In
None	None	None	None	Term Dictionary/Glossary
Optional Synchronous EBCDIC, IBM 2741-compat at 14.8 cps	Optional Synchronous EBCDIC, IBM 2741-compat at 14.8 cps	Standard IBM 2741-compat at 134 baud, IBM 2780-compat at up to 9600 baud	Standard IBM 2741-compat at 134 baud, IBM 2780 Ethernet compt at up to 9600 baud	COMMUNICATIONS Availability
None	None	Optional	Optional	Format & Speed
None	None	None	None	ARITHMETIC CAPABILITY
None	None	None	None	EDP CAPABILITY
None	None	None	None	Multiprogramming
None	None	None	None	Compilers
Computer tape photo-composition interfaces	Computer tape interface	OCR RS-232 devices	OCR, RS-232 devices	Applications Software
1972* USA	1972* USA	August 1976 USA	August 1978 USA	PERIPHERALS
\$4,500	\$4,000	Available upon request	Available upon request	BACKGROUND INFORMATION
\$150**	\$150**	—	—	First Delivery Date
—	—	Various lease plans available	Available	Country of Manufacture
\$62/mo from Univac	\$62/mo from Univac	—	—	Installed Base Estimate
—	—	—	—	PRICING & TERMS
—	—	—	—	Purchase
—	—	—	—	Rental
—	—	—	—	Lease
—	—	—	—	Maintenance
—	—	—	—	Warranty & Support
*Sperry sold remaining inventory to Willow in 1977	*Sperry sold remaining inventory to Willow in 1977	Can be used as editing terminal in Wordplex 7 or Wordplex 4 shared-logic configurations	Can be used as editing terminal in Wordplex 7 or Wordplex 4 shared-logic configurations	REMARKS & OTHER FEATURES
**60% rental credit avail from Willow, dealer rates may differ.	**60% rental credit avail from Willow, dealer rates may differ.			

### Standalone Word Processing Systems

COMPANY	Xerox	Xerox	Xerox	Xerox
<b>MODEL</b>	800 ETS, System 124	800 ETS, System 126	800 ETS System 122 & 800 CETS System 152	800 ETS System 128 & 800 CETS System 151
<b>SYSTEM CONFIGURATION</b>	Typewriter, single card console	Typewriter, dual card console	Typewriter, single tape console	Typewriter, dual tape console
<b>Memory Size</b>	—	—	—	—
<b>Storage Media</b>	Single magnetic card	Dual magnetic card	Single cassette tape	Dual cassette tape
<b>Storage Capacity</b>	10,800 chars./card	10,800 chars./card	17K or 35K chars./cass	17K or 35K chars./cass
<b>DISPLAY STATION FEATURES</b>				
<b>Screen Size &amp; Type</b>	Not Available	Not Available	Not Available	Not Available
<b>Display Buffer Memory</b>	Not Available	Not Available	Not Available	Not Available
<b>Format &amp; Capacity</b>	Not Available	Not Available	Not Available	Not Available
<b>Character Generation</b>	Not Available	Not Available	Not Available	Not Available
<b>Cursor Positioning</b>	Not Available	Not Available	Not Available	Not Available
<b>Vertical Scrolling</b>	Not Available	Not Available	Not Available	Not Available
<b>Horizontal Scrolling</b>	Not Available	Not Available	Not Available	Not Available
<b>Page Scrolling</b>	Not Available	Not Available	Not Available	Not Available
<b>Display Highlighting</b>	Not Available	Not Available	Not Available	Not Available
<b>Character Size Control</b>	Not Available	Not Available	Not Available	Not Available
<b>Character Pitch Display</b>	Not Available	Not Available	Not Available	Not Available
<b>Character Spacing Display</b>	Not Available	Not Available	Not Available	Not Available
<b>Line Spacing Display</b>	Not Available	Not Available	Not Available	Not Available
<b>Line Justify Display</b>	Not Available	Not Available	Not Available	Not Available
<b>Underscore Display</b>	Not Available	Not Available	Not Available	Not Available
<b>Sub Superscript Display</b>	Not Available	Not Available	Not Available	Not Available
<b>Multi Column Page Display</b>	Not Available	Not Available	Not Available	Not Available
<b>Stored Form Recall / Display</b>	Not Available	Not Available	Not Available	Not Available
<b>Control Code Display</b>	Not Available	Not Available	Not Available	Not Available
<b>Format Statement Display</b>	Not Available	Not Available	Not Available	Not Available
<b>PRINTER STATIONS FEATURES</b>				
<b>Printer Type &amp; Speed</b>	Daisy wheel 30 cps 256 chars (1 line)	Daisy wheel 30 cps 256 chars (1 line)	Daisy wheel 30 cps 256 chars (1 line)	Daisy wheel 30 cps 256 chars (1 line)
<b>Printer Buffer Memory</b>	10/12 /proportional	10/12 /proportional	10/12 /proportional	10/12 /proportional
<b>Character Pitch / Spacing</b>	13"	13"	13"	13"
<b>Writing Line Width</b>	15"	15"	15"	15"
<b>Carnage Paper Width</b>	Standard	Standard	Standard	Standard
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End Of Page Stop</b>	Standard	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard
<b>Simultaneous Printout</b>	Standard	Standard	Standard	Standard
<b>GEN. FUNCTIONAL FEATURES</b>				
<b>Media Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Margins only	Margins only	Margins only	Margins only
<b>Stored Multiple Formats</b>	None	None	None	None
<b>Machine Dialog / Menu Prompt</b>	None	None	None	None
<b>Forms Input</b>	None	None	None	None
<b>Control Character Printout</b>	Standard	Standard	Standard	Standard
<b>Printout Queuing</b>	None	None	None	None
<b>Revision &amp; Status Reporting</b>	None	None	None	None
<b>System Security</b>	None	None	None	None
<b>TEXT INPUT FEATURES</b>				
<b>Auto Corner Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	None	None	None	None
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	None	None	None	None
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard
<b>Hyphenation</b>	Manual, adjustable Hot Zone	Manual, adjustable Hot Zone	Manual, adjustable Hot Zone	Manual, adjustable Hot Zone
<b>REMARKS &amp; OTHER FEATURES</b>		Supplies include media, printwheels, ribbons, special platens, tractor feed, noise suppressors, other	Supplies include media, printwheels, ribbons, special platens, tractor feed, noise suppressors, other	Supplies include media, printwheels, ribbons, special platens, tractor feed, noise suppressors, other

### Standalone Word Processing Systems

Xerox	Xerox	Xerox	Xerox	COMPANY
800 ETS System 124	800 ETS System 126	800 ETS System 122 & 800 CETS System 152	800 ETS System 128 & 800 CETS System 151	<b>MODEL</b>
Standard Between margins or tab settings None None None	Standard Between margins or tab settings None None None	Standard Between margins or tab settings None None None	Standard Between margins or tab settings None None None	<b>TEXT INPUT FEATURES (cont'd)</b> Auto Input Underline Auto Centering  Auto Line Spacing Auto Page Numbering Auto Headers / Footers Auto Pagination <b>TEXT EDIT &amp; MERGE FEATURES</b> Document Assembly/ Merge
Text from card selected by line no. & merged w./keyboared text to form new document By line no	Stored text assembled & merged w./keyboared or stored text to form new document By line no	Stored text merged w./keyboared text to form new document By reference no. & char. string C. W. L. P	Stored text assembled & merged w./keyboared text or stored to form new document By reference no. & char. string C. W. L. P	<b>Search Capability</b>  <b>Delete Capability</b>  <b>Global Search &amp; Replace</b>
C. W. L. P	C. W. L. P	C. W. L. P	C. W. L. P	<b>Block Move/Copy</b>
None	None	Standard, non-global & manual replacement	Standard, non-global & manual replacement	<b>Column Move/Delete</b>
None	None	None	Standard	<b>Auto Repagination</b>
None	None	None	None	<b>Auto Widow Adjust</b>
None	None	None	None	<b>Auto File Sort</b>
None	None	None	By reference or code no	<b>Auto File Select</b>
None	None	None	None	<b>Auto Footnote Tie-In</b> Term Dictionary/Glossary
None	None	None	None	<b>COMMUNICATIONS</b> Availability Format & Speed
None	None	Standard (800C) Xerox WP, ASCII, IBM CMC & 2741-compatible	Standard (800C) Xerox, WP, ASCII, IBM CMC & 2741-compatible	<b>ARITHMETIC CAPABILITY</b> EDP CAPABILITY Multiprogramming Compilers
None	None	None	None	<b>Applications Software</b>
None	None	None	None	<b>PERIPHERALS</b>
None	None	None	None	<b>BACKGROUND INFORMATION</b> First Delivery Date Country of Manufacture Installed Base Estimate <b>PRICING &amp; TERMS</b> Purchase
October 1974 USA	October 1974 USA	October 1974* USA	October 1974* USA	<b>Rental</b>
\$4,500	\$5,500	\$4,500 (800) \$6,100 (800C) \$275 (6-mo.) \$360 (6-mo.) \$245 (2-yr.) \$320 (2-yr.) \$630	\$5,500 (800) \$6,600 (800C) \$355 (6-mo.) \$445 (6-mo.) \$315 (2-yr.) \$395 (2-yr.) \$740 \$815	<b>Lease</b>
\$245 (6 mo.)	\$345 (6-mo.)	\$305 (2-yr.)	\$315 (2-yr.)	<b>Maintenance</b>
\$220 (2 yr.)	\$305 (2-yr.)	\$320 (2-yr.)	\$395 (2-yr.)	<b>Warranty &amp; Support</b>
\$630	\$815	\$575	\$740	
\$630	\$630	\$630	\$815	
90 days	90 days	90 days	90 days	
Media conversion for IBM cards to tape or card free of charge.	Media conversion for IBM cards to tape or card free of charge	*800 CETS delivered March 1976 Media conversion for IBM cards to tape or card free of charge	*800 CETS delivered March 1976 Media conversion for IBM cards to tape or card free of charge	<b>REMARKS &amp; OTHER FEATURES</b>

Standalone Word Processing Systems

COMPANY	Xerox	Xerox	Xerox	Xerox
MODEL	850 Display Typewriter	850 Page Display	860	860 Partial Page Display
SYSTEM CONFIGURATION Configuration	Keyboard / printer, diskette console	CRT, keyboard, printer, diskette console	Controller, keyboard, display, printer	Controller, keyboard, display, printer
Memory Size	8K	16K	96K (expandable to 128K)	96K (expandable to 128K)
Storage Media	Dual diskette	Dual diskette	Dual diskettes*	Dual diskettes*
Storage Capacity	300K chars / diskette	300K chars / diskette	300K chars / diskette	300K chars / diskette
DISPLAY STATION FEATURES				
Screen Size & Type	17" x 8" gas plasma	8 1/2" x 11" CRT	7 1/4" x 10" CRT	7 1/4" x 10" CRT
Display Buffer Memory	1 line x 24 chars (24 chars total)	66 lines x 102 chars (6732 chars total)	66 lines x 85 chars (10) 9 x 14 dot matrix	25 lines x 122 chars (3050 chars total) 9 x 14 dot matrix
Format & Capacity	1 line x 24 chars (24 chars total)	66 lines x 102 chars (6732 chars total)	66 lines x 85 chars (10) 9 x 14 dot matrix	25 lines x 122 chars (3050 chars total) 9 x 14 dot matrix
Character Generation	Standard	Standard	Standard	Standard
Cursor Positioning	Left, right	360° electronic control	Up, down, left, right or diagonally	Optional, up, down, left, right or diagonally
Vertical Scrolling	None	Standard	Standard	Standard
Horizontal Scrolling	Standard	Std. to 156 chars	Standard (to 156 char.)	Standard (to 156 char.)
Page Scrolling	None	Standard	Standard	Standard
Display Highlighting	None	Standard	Standard	Standard
Character Size Control	None	Standard	Standard	Standard
Character Pitch Display	None	Standard	Standard	Standard
Character Spacing Display	None	Standard	Standard	Standard
Line Spacing Display	None	Standard	Standard	Standard
Line Justify Display	None	Standard	Standard	Standard
Underscore Display	Standard	Standard	Standard	Standard
Sub-Superscript Display	None	Standard	Standard	Standard
Multi-Column Page Display	None	Standard	Standard	Standard
Stored Form Recall / Display	Standard	Standard	Standard	Standard
Control Code Display	Standard	Standard	Standard	Standard
Format Statement Display	Standard	Standard	Standard	Standard
PRINTER STATIONS FEATURES				
Printer Type & Speed	Printer 35 cps	Daisy 35 cps	35 cps daisy wheelprinter	35 cps daisy wheelprinter
Printer Buffer Memory	10 / 12 / prop	10 / 12 / prop	10 / 12 / proportional	10 / 12 / proportional
Character Pitch / Spacing	13 2" / 15"	13 2" / 15"	13" / 15"	13" / 15"
Writing Line Width	Standard	Standard	Standard	Standard
Carriage Paper Width	Standard	Standard	Standard	Standard
First Line Forms Advance	Standard	Standard	Standard	Standard
End-Of-Page Stop	Standard	Standard	Standard	Standard
Justified Printout	Standard	Standard	Standard	Standard
Sub-Superscript Printout	Standard	Standard	Standard	Standard
Non-Adjust Printout	Standard	Standard	Standard	Standard
Bidirectional Printout	Standard	Standard	Standard	Standard
Simultaneous Printout	None	Standard	None	None
GEN. FUNCTIONAL FEATURES				
Media Stored Format	Standard	Standard	Standard	Standard
Default Format Statement	Standard	Standard	Standard	Standard
Stored Multiple Formats	Standard	Standard	Standard	Standard
Machine Dialog / Menu Prompt	Limited, document format menu	Limited, document format menu	Some employed for-matting is via full menu	Some employed for-matting is via full menu
Forms Input	None	Standard	Standard	Standard
Control Character Printout	Standard	Standard	Standard	Standard
Printout Queuing	None	None	None	None
Revision & Status Reporting	—	—	Optional	Optional
System Security	None	None	None	None
TEXT INPUT FEATURES				
Auto Carriage Return	Standard	Standard	Standard	Standard
Auto Word Wraparound	Standard	Standard	Standard	Standard
Auto Margin Adjust	Standard	Standard	Standard	Standard
Temporary Margins	—	—	—	—
Auto Decimal Tab	Standard	Standard	Standard	Standard
Hyphenation	Manual, adjustable Hot Zone	Manual, adjustable Hot Zone	Manual, Hot Zone	Manual, Hot Zone
REMARKS & OTHER FEATURES	Supplies include media, printwheels, ribbons, special platens, tractor feed, noise suppressors, other	Supplies include media, printwheels, ribbons, special platens, tractor feed, noise suppressors, other	*May be configured with single or dual sided, dual density diskettes or 1 8" Winchester fixed-disk drive with a 5Mb or 10Mb disk **66 lines x 102 chars (12 pitch) (6 732 total chars)	*May be configured with single or dual sided, dual density diskettes or 1 8" Winchester fixed-disk drive with a 5Mb or 10Mb disk

Standalone Word Processing Systems

COMPANY	Xerox	Xerox	Xerox	Xerox	COMPANY
MODEL	850 Display Typewriter	850 Page Display	860	860 Partial Page Display	MODEL
TEXT INPUT FEATURES (cont'd)					Auto Input Underline
Auto Centering	Standard	Standard	Standard	Standard	Auto Line Spacing
Auto Page Numbering	Standard	Standard	Standard	Standard	Auto Headers / Footers
Auto Pagination	Standard	Standard	Standard	Standard	Auto Line Spacing
TEXT EDIT & MERGE FEATURES					Document Assembly / Merge
Document Assembly / Merge	Standard	Standard	Standard	Standard	
Search Capability	Standard	Standard	Standard	Standard	Search Capability
Delete Capability	Standard	Standard	Standard	Standard	Delete Capability
Global Search & Replace	Standard	Standard	Standard	Standard	Global Search & Replace
Block Move / Copy	Standard	Standard	Standard	Standard	Block Move / Copy
Column Move / Delete	Standard	Standard	Standard	Standard	Column Move / Delete
Auto Repagination	Standard	Standard	Standard	Standard	Auto Repagination
Auto Widow Adjust	Standard	Standard	Standard	Standard	Auto Widow Adjust
Auto File Sort	Standard	Standard	Standard	Standard	Auto File Sort
Auto File Select	Standard	Standard	Standard	Standard	Auto File Select
Auto Footnote Tie-In	Standard	Standard	Standard	Standard	Auto Footnote Tie-In
Term Dictionary / Glossary	Standard	Standard	Standard	Standard	Term Dictionary / Glossary
COMMUNICATIONS					Availability
Availability	Standard	Standard	Standard	Standard	Format & Speed
Format & Speed	Standard	Standard	Standard	Standard	
ARITHMETIC CAPABILITY					EDP CAPABILITY
EDP CAPABILITY	Standard	Standard	Standard	Standard	Multiprogramming
Multiprogramming	Standard	Standard	Standard	Standard	Compilers
Compilers	Standard	Standard	Standard	Standard	
Applications Software	Standard	Standard	Standard	Standard	Applications Software
PERIPHERALS					PERIPHERALS
Background Information					Background Information
First Delivery Date	Standard	Standard	Standard	Standard	First Delivery Date
Country of Manufacture	Standard	Standard	Standard	Standard	Country of Manufacture
Installed Base Estimate	Standard	Standard	Standard	Standard	Installed Base Estimate
PRICING & TERMS					PRICING & TERMS
Purchase	\$7,600	\$12,200	\$14,850**	\$13,500**	Purchase
Rental	\$425 (6-mo.)	\$475 (6-mo.)	\$530/mo. (1-yr.) \$525/mo. (2-yr.)	—	Rental
Lease	\$400 (1-yr.) \$375 (2-yr.)	\$575 (1-yr.) \$545 (2-yr.)	\$1,050**	\$590 (1-yr.) \$565 (2-yr.)	Lease
Maintenance	\$950/yr.	\$1,130/yr.	—	\$1,300**	Maintenance
Warranty & Support	90 days	90 days	90 days parts & labor.	90 days parts & labor.	Warranty & Support
REMARKS & OTHER FEATURES	*800 ETS, IBM OS6 compatible. **Business applications supported by programming capability of sys. Media conversion for IBM cards to disk free of charge ***\$135 replace/remove.	*800 ETS, IBM OS6 compatible. **Business applications supported by programming capability of sys. Media conversion for IBM cards to disk free of charge ***\$135 replace/remove.	*Shared printer interface, memory. **Basic system: 860 Controller w/96K memory, 2, single sided diskette drives, keyboard, printer, \$30 license records processing, \$15-\$20 commun.	*Shared printer interface, memory. **Basic system: 860 Controller w/96K memory, 2, single sided diskette drives, keyboard, printer, Partial Page Display, \$135 installation/removal fee.	REMARKS & OTHER FEATURES

Standalone Word Processing Systems

COMPANY	XMark	XMark	Zenith
<b>MODEL</b>	Office Master	Office Mate	Z 89 Electronic Typing
<b>SYSTEM CONFIGURATION</b> Configuration	Keyboard CRT CPU dual diskette drive (8" drive)	Keyboard / CRT CPU dual diskette drive (5 1/2")	Keyboard console/ printer
<b>Memory Size</b>	32K to 64K	32K to 64K	48K characters
<b>Storage Media</b>	Dual diskette	Single or dual diskette	Mini-diskette
<b>Storage Capacity</b>	300K chars / diskette	300K chars / diskette	70K chars / diskette
<b>DISPLAY STATION FEATURES</b> Screen Size & Type	14" diagonal CRT	14" diagonal	12" diagonal CRT
<b>Display Buffer Memory</b>	90 lines	90 lines	24K chars
<b>Format &amp; Capacity</b>	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars
<b>Character Generation</b>	11 x 13 dot matrix	11 x 13 dot matrix	5 x 9 dot matrix
<b>Cursor Positioning</b>	Left, right, up, down, home, end, begin of line	Left, right, up, down, home, end, begin of line	Left, right, up, down, home, bottom
<b>Vertical Scrolling</b>	10 lines per command	10 lines per command	Paged
<b>Horizontal Scrolling</b>	To 160 chars / line	To 160 chars / line	None
<b>Page Scrolling</b>	None	None	Standard
<b>Display Highlighting</b>	Flash, intensify, reverse	Flash, intensify, reverse	None
<b>Character Size Control</b>	None	None	None
<b>Character Pitch Display</b>	None	None	None
<b>Character Spacing Display</b>	None	None	None
<b>Line Spacing Display</b>	None	None	None
<b>Line Justify Display</b>	None	Line & dotted line	Standard
<b>Underscore Display</b>	Line & dotted line	Highlighted	None
<b>Sub Superscript Display</b>	Highlighted	None	None
<b>Multi-Column Page Display</b>	None	Standard	Standard
<b>Stored Form Recall / Display</b>	Standard	Standard	Standard
<b>Control Code Display</b>	Operator option	Operator option	Standard
<b>Format Statement Display</b>	Standard	Standard	Standard
<b>PRINTER STATIONS FEATURES</b> Printer Type & Speed	Daisy wheel 45 / 55 cps*	Daisy wheel 45 / 55 cps*	Diablo, Xerox 38 cps
<b>Printer Buffer Memory</b>	160 chars	160 chars	1000 chars
<b>Character Pitch / Spacing</b>	10 / 12 / proportional	10 / 12 / proportional	10 / 12 / proportional
<b>Writing Line Width</b>	13"	13"	99 chars
<b>Carriage Paper Width</b>	15"	15"	16"
<b>First Line Forms Advance</b>	Standard	Standard	Standard
<b>End Of Page Stop</b>	Standard	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard
<b>Sub Superscript Printout</b>	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard
<b>Bi-directional Printout</b>	Standard	Standard	Standard
<b>Simultaneous Printout</b>	Standard	Standard	Standard
<b>GEN. FUNCTIONAL FEATURES</b> Media Stored Format	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard
<b>Machine Dialog / Menu Prompt</b>	Extensive displays of operator options	Extensive displays of operator options	Standard
<b>Forms Input</b>	Standard**	Standard**	Standard
<b>Control Character Printout</b>	None	None	Optional
<b>Printout Queuing</b>	Standard	Standard	None
<b>Revision &amp; Status Reporting</b>	—	—	Standard
<b>System Security</b>	—	—	None
<b>TEXT INPUT FEATURES</b> Auto Corner Return	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard
<b>Auto Decimal Tab</b>	Standard L, R, center	Standard L, R, Center	None
<b>Hyphenation</b>	Manual, adjustable Hot Zone	Manual, adjustable Hot Zone	Manual
<b>REMARKS &amp; OTHER FEATURES</b>	*Spinwriter printer also available **Forms package for data entry applications Additional memory & storage capacity avail	*Spinwriter printer also available **Forms package for data entry applications Additional memory & storage capacity avail	

Standalone Word Processing Systems

COMPANY	XMark	XMark	Zenith	COMPANY
	Office Master	Office Mate	Z 89 Electronic Typing	<b>MODEL</b>
	Standard	Standard	Standard	<b>TEXT INPUT FEATURES (cont'd)</b> Auto Input Underline Auto Centering
	Standard	Standard	Standard	Auto Line Spacing Auto Page Numbering Auto Headers / Footers Auto Repagination TEXT EDIT & MERGE FEATURES Document Assembly / Merge
	Operator coding Standard	Operator coding Standard	Standard	Search Capability
	Standard	Standard	None	Delete Capability
	Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	Stored text merged with keyboard and other stored text	Global Search & Replace
	By file name, page no & character string C, W, L, S, P, Page & specified block Next occurrence, manual or auto replacement	By file name, page no & character string C, W, L, S, P, Page & specified block Next occurrence, manual or auto replacement	Char string or variable text marker C, W, L, Page, cursor to end Char string automatic or with operator configuration	Block Move / Copy
	Standard	Standard	None	Column Move / Delete
	Standard	Standard	None	Auto Repagination
	Standard	Standard	Standard	Auto Widow Adjust
	Standard	Standard	None	Auto File Sort
	Standard	Standard	Optional	Auto File Select
	Standard	Standard	Optional	Auto Footnote Tie-In Term Dictionary / Glossary
	Standard	Standard	None	<b>COMMUNICATIONS</b> Availability Format & Speed
	Standard	Standard	None	<b>ARITHMETIC CAPABILITY</b> EDP CAPABILITY Multiprogramming Compilers
	Standard Asynch / Bisynch / Synch, ASCII, IBM 2741-compat. at 110 to 9600 baud*	Standard Asynch / Bisynch / Synch, ASCII, IBM 2741-compat. at 110 to 9600 baud*	Standard ASCII formatted, 1200 baud	Applications Software
	Full None Basic, BTL, Assembler, FORTRAN V, COBOL Assembler Available from XMark**	Full None Basic, BTL, Assembler, FORTRAN V, COBOL Assembler Available from XMark**	Optional FORTRAN, COBOL, PLI, PASCAL, FORTH, BASIC Optional (wide variety)	PERIPHERALS
	Printer, OCR, IBM Card Reader 2—192 Mb Win- chester and Cartridge	Paper Tape, OCR, Mag Tape Reader	Dual Diskettes	<b>BACKGROUND INFORMATION</b> First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
	Disk Storage March 1976 USA 220	USA	1980 USA Over 1000	Rental
	\$17,500	\$12,500	\$6,418	Lease
	\$700	\$500	30 day cancel, rental varies during term \$250 (30-mo.) \$180 (60-mo.) \$75/mo.	Maintenance
	\$460 (5-yr.)	\$290 (5-yr.)		Warranty & Support
	\$135/mo	\$100/mo	90 days parts and labor training classes, hot line	<b>REMARKS &amp; OTHER FEATURES</b>
	90 days	90 days	Additional stations \$3290	
	*Optional, IBM 2780/ 3270, 3780, TSO, ATS, ATMS, U-200, Burroughs compatible Synch at up to 50K baud **Including Data Entry, Letter Writing, Scienti- fic Calcul. Business Applications, and Payroll	*Optional, IBM 2780/ 3270, 3780, TSO, ATS, ATMS, U-200, Burroughs compatible Synch at up to 50K baud **Including Data Entry, Letter Writing, Scienti- fic Calcul. Business Applications, and Payroll		

## Multi-Terminal Word Processing Systems

The following tabulations cover the parameters, features and pricing of 50 shared-logic word processing systems currently marketed by 27 different vendors.

The first or even-numbered pages cover System Configuration; Display Station Features; Printer Station Features; General Functional Features; and Text Input Features for each shared-logic system.

The second or odd-numbered pages continue the coverage of Text Input Features and also detail Text Edit & Merge Features; Communications; Arithmetic Capability; EDP Capability; Peripherals; Background Information; and Pricing & Terms.

Multi-Terminal Word Processing Systems

COMPANY	ACT/Office Automation	AM/Jacquard	Basic Four	Basic Four
MODEL	Ultra-Text II	J100 & AMtext 100	Dataword II	Wordstream 1200*
SYSTEM CONFIGURATION	Honeywell Level 6 128K to 2M 1 to 8 disks System Storage Media Storage Capacity File Organization	Jacquard J-100 96K to 128K Disk & diskette 320Mb disc, 250Kch disk By document name	Sys 200 410 610 730 40K Disk 14 Mb 75 Mb By document name & number 1 to 4 1 to 4	Wordstream 64K or 128K Diskette (2-4) 350K chars diskette by document & page
No Keystrokes Supported No Printers Supported DISPLAY FEATURES	to 20 to 20	to 16 to 10	to 16 1 to 4	4 3
Screen Size & Type Display Buffer Memory Format & Capacity	14 inch diagonal 232K 24 lines x 80 chars (1920 chars total) 7 x 9 dot matrix Left, right, up, down	12" diagonal CRT 1920 chars 24 lines x 80 chars (1920 chars total) 5 x 8 dot matrix Left, right, up, down	15" diagonal CRT 64K 64 lines x 80 chars 7 x 9 dot matrix Left, right, up, down, page para. sent word	8" x 10.5" CRT 4560 chars 57 lines x 80 chars (4560 chars total) 7 x 9 dot matrix Left, right, up, down, home
Character Generation Cursor Positioning	Standard Standard*	Standard to 450 chars	None Option Standard Standard	None Standard Standard Standard
Vertical Scrolling Horizontal Scrolling Page Scrolling	Standard Standard*	Standard Standard	Standard Standard	Standard Standard
Display Highlighting Character Size Control Character Pitch Display Character Spacing Display	Standard None None None	Standard None None None	Standard None None None	Standard None None None
Line Spacing Display Line Justify Display Undercore Display Sub-Superscript Display Multi-Column Page Display Stored Form Recall/Display Control Code Display Format Statement Display	Standard Standard Standard Standard*** Standard Standard Standard	Standard None Optional Standard Standard Standard Standard	Standard None Standard Standard Standard Standard Standard	Standard Standard Standard Codes only Standard Standard Standard None
PRINTER FEATURES	Diablo daisy 45 cps**	Daisy 30 45 55 cps*	Daisy wheel 45 cps*	Qume daisy 45 cps 4560 chars
Printer Type & Speed Printer Buffer Memory Character Pitch/Spacing Writing Line Width Carriage Paper Width First Line Form Advance End Of Page Stop Justified Printout Sub-Superscript Printout Non-Adjust Printout Bidirectional Printout Simultaneous Printout	10 12 13 2" 15" Standard Standard Standard Standard Standard Standard Standard Standard	Variable prop 13 2" 25" 15" 28" Standard Standard Standard Standard Standard Standard Standard Standard	10 12 13 2" 15" Standard Standard Standard Standard Standard Standard Standard Standard	10 12 proportional 13 2" 15" Standard Standard Standard Standard Standard Standard Standard Standard
GENERAL FEATURES	Standard Standard Standard Standard Standard	Standard Standard Standard Standard Standard	Standard Standard Standard Standard Standard	Standard None Standard Standard Standard
Media Stored Format Default Format Statement Stored Multiple Formats Machine Dialog/Menu Prompt	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard None Standard Standard
Forms Input Control Character Printout Printout Queuing	Standard Standard Standard	Standard Standard Standard	None None Standard	Standard Standard None
Revision & Status Reporting	Standard	Standard	Standard	Via Index entries
System Security	Document protection & log on passwords	Optional: 2 level log on passwords	Standard operator password & doc security no	Std thru Program Directory
TEXT INPUT FEATURES	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard
Auto Carrier Return Auto Word Wraparound Auto Margin Adjust Temporary Margins	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard
Auto Decimal Tab Hyphenation	Standard Automatic via algorithm	Standard Manual adjustable Hot Zone system scan discretionary hyphens	Standard Manual discretionary hyphens	Standard Manual 5 char Hot Zone
REMARKS & OTHER FEATURES	*To 160 chars./line **Optional NEC Spin-writer 55 cps or line printer up to 900 lpm ***Multiple margins set within text	*Qume Wide Track	*Line Printer DP & W/P can be accomplished on same (multi-function) terminal	*No longer in new production

Multi-Terminal Word Processing Systems

ACT/Office Automation	AM/Jacquard	Basic Four	Basic Four	COMPANY
Ultra-Text II	J100 & AMtext 100	Dataword II	Wordstream 1200	MODEL
Standard Standard	Standard Standard	Standard Standard	Standard Standard	TEXT INPUT (cont'd) Auto Input Underline Auto Centering
Standard Standard Standard	Standard Standard Standard	Standard Standard Standard	Standard Standard Standard	Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination TEXT EDIT & MERGE Document Assembly/Merge
Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	Stored text assembled & merged w/keyboard text	Search Capability
By document, page no, char string & ellipsis C, W, L, S, P. specified block	By document, page, cursor position & char string C, W, L, S, P	Standard C, W, S, P, page, selected block	By diskette no., page no & char string C, W, L, S, P, Page	Delete Capability
Next, specified no or all occurrences, auto replacement or deletion	Next or all occurrences, manual or auto replacement	Standard	Standard	Global Search & Replace
Standard	Standard	Standard	Standard	Block Move/Copy
Optional	Standard	Standard	Standard, also column duplicate	Column Move/Delete
Standard	Standard	Standard	Standard	Auto Repagination
Standard	None	Standard	Standard	Auto Widow Adjust
Optional*	Standard	With DP capabilities	Optional	Auto File Sort
Standard	None	With DP capabilities	By fields, max 80-char	Auto File Select
Standard None	None None	None None	None Optional, 30,000-word	Auto Footnote Tie-in Term Dictionary/Glossary
Optional Synchronous BSC or HDLC many asynch protocols, 1200 or 9600 baud** Standard	Optional Full duplex asynch EBCDIC, ASCII; 110 to 4800 bps, bisynch to 4800	Optional Bisynchronous to 9600 bps	Optional binary synchronous ASCII, EBCDIC transparent	COMMUNICATIONS Availability Format & Speed
Standard FORTRAN, BASIC, COBOL, Assembler Available	Standard BASIC, Assembly	Standard None	Col. verification	ARITHMETIC CAPABILITY EDP CAPABILITY Multiprogramming Compilers
Data Rte, Accounting	As a DP function	None	None	Applications Software
All Honeywell Level 6 peripherals	Line printers, disc storage, tape	Line printer	Mag card converter, wide and twin-track printers, hard disk file mgmt system	PERIPHERALS
August 1977 USA 5	February 1977 USA	June 1980 USA	USA	BACKGROUND INFO First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
\$88,000***	\$19,900*	\$12,500*	\$30,962*	Rental Rental & lease prices available on quotation
3rd party lease plans available Honeywell	Various rental & lease plans available	None	None	Lease
1 year warranty	AM Service	—	By Sorbus	Maintenance
90 days, training course	90 days, training course	90 day warranty, 3 days operator training	N/C operator training	Warranty & Support
*Using Honeywell GCOS **Also 3270, 2780, 3780 to host w same Ultra Text, Network Processor ***Basic system, 5 display stations, 1 printer, 1-10 Mb disk CPU with 192K w memory (CRT has 48K mem)	*Includes 96K CPU, dual diskette drive, display station & keyboard	*Includes terminal, printer & 40K memory	*Basic system, 2 display stations, 1 printer, 64K CPU, 2 diskette drives	REMARKS & OTHER FEATURES



Multi-Terminal Word Processing Systems

COMPANY	Basic Four	Comptek	Comptek	Comptek
MODEL	Wordstream 2200*	Accutext/ Barrister 100	Accutext/ Barrister 200	Accutext/ Barrister 300
SYSTEM CONFIGURATION	Wordstream To 128K Diskette (2 to 10) 350K chars diskette By document & page	Data General Nova 4/C 64KB Disk 10MB By document name page no or line number	Data General Nova 4/S 128KB Disk 30MB By document name page no or line no	Data General 4/X 128KB Disk 30MB or 74MB By document name, page no or line no
No Keystations Supported	12			
No Printers Supported	3			
DISPLAY FEATURES				
Screen Size & Type	8" x 10 5" CRT	12" diagonal CRT	12" diagonal CRT	12" diagonal CRT
Display Buffer Memory	4560 chars	1920 chars	1920 chars	1920 chars
Format & Capacity	57 lines x 80 chars (4560 chars total)	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars (1920 chars total)
Character Generation	5 x 8 dot matrix	5 x 8 dot matrix	5 x 8 dot matrix	5 x 8 dot matrix
Cursor Positioning	Left, right up, down, home	Left, right up, down, home	Left, right up, down, home	Left, right up, down, home
Vertical Scrolling	None	Standard	Standard	Standard
Horizontal Scrolling	Standard	Standard	Standard	Standard
Page Scrolling	Standard	Standard	Standard	Standard
Display Highlighting	Standard	None	None	None
Character Size Control	None	None	None	None
Character Pitch Display	None	None	None	None
Character Spacing Display	Standard	Standard	Standard	Standard
Line Spacing Display	Standard	Standard	Standard	Standard
Line Justify Display	Standard	Standard	Standard	Standard
Underscore Display	Standard	Codes Only	Codes Only	Codes Only
Sub-Superscript Display	Standard	Standard	Standard	Standard
Multi-Column Page Display	Standard	Standard	Standard	Standard
Stored Form Recall/Display	Standard	Standard	Standard	Standard
Control Code Display	None	Standard	Standard	Standard
Format Statement Display	None	Standard	Standard	Standard
PRINTER FEATURES				
Printer Type & Speed	45 cps Qume daisy w/h 4560 chars	Diablo 45/55 cps** 768 chars	Diablo 45/55 cps** 768 chars	Diablo 45/55 cps** 768 chars
Printer Buffer Memory	10/12 proportional	10/12/proportional	10/12/proportional	10/12/proportional
Character Pitch/Spacing	13", 15"	13"	13"	15"
Writing Line Width	Standard	Standard	Standard	Standard
Carriage Paper Width	Standard	Standard	Standard	Standard
First Line Forms Advance	Standard	Standard	Standard	Standard
End-Of-Page Stop	Standard	Standard	Standard	Standard
Justified Printout	Standard	Standard	Standard	Standard
Sub-Superscript Printout	Standard	Standard	Standard	Standard
Non-Adjust Printout	Standard	Optional	Optional	Optional
Bidirectional Printout	Standard	Standard	Standard	Standard
Simultaneous Printout	Standard	Standard	Standard	Standard
GENERAL FEATURES				
Media-Stored Format	Standard	Standard	Standard	Standard
Default Format Statement	None	Standard	Standard	Standard
Stored Multiple Formats	Standard	Standard	Standard	Standard
Machine Dialog/Menu Prompt	Standard	Standard	Standard	Standard
Forms Input	Standard	Standard	Standard	Standard
Control Character Printout	Standard	Standard	Standard	Standard
Printout Queuing	None	Standard	Standard	Standard
Revision & Status Reporting	Via Index entries	Standard	Standard	Standard
System Security	Std thru Program Directory	Docu protection & 2- level log on passwords	Docu protection & 2- level log on passwords	Docu protection & 2- level log on passwords
TEXT INPUT FEATURES				
Auto Carriage Return	Standard	Standard	Standard	Standard
Auto Word Wraparound	Standard	Standard	Standard	Standard
Auto Margin Adjust	Standard	Standard	Standard	Standard
Temporary Adjust	Standard	Standard	Standard	Standard
Auto Decimal Tab	Standard	Standard	Standard	Standard
Hyphenation	Manual, 5-char Hot Zone	Standard Automatic via algorithm & 50,000 word dictionary	Standard Automatic via algorithm & 50,000 word dictionary	Standard Automatic via algorithm & 50,000 word dictionary
REMARKS & OTHER FEATURES	*No longer in new production.	*Any comb of CRT's & daisy printers up to a max of 4 line printer may be added. **180, 200, 430, and 730 lpm line printers available	*Any comb of CRT's & daisy printers up to a max of 8 line printer may be added. **180, 200, 430, and 730 lpm line printers available	*Any comb of CRT's & daisy printers up to a max of 15 line printer may be added. **180, 200, 430, and 730 lpm line printers available

Multi-Terminal Word Processing Systems

Basic Four	Comptek	Comptek	Comptek	Comptek	COMPANY
Wordstream 2200	Accutext/Barrister 100	Accutext/Barrister 200	Accutext/Barrister 300	MODEL	TEXT INPUT (cont'd) Auto Input Underline Auto Centering
Standard Standard	Standard Standard	Standard Standard	Standard Standard		Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination TEXT EDIT & MERGE Document Assembly/Merge
Standard Standard Standard	Standard Standard Standard	Standard Standard Standard	Standard Standard Standard		Search Capability Delete Capability Global Search & Replace
Stored text assembled & merged w/keyboarded text	Stored text: assembled & merged w/keyboarded text	Stored text: assembled & merged w/keyboarded text	Stored text: assembled & merged w/keyboarded text		Block Move/Copy Column Move/Delete Auto Repagination
By diskette no, page no & char string C, W, L, S, P, Page	By document, page no, line no, char string C, W, L, S, P & document	By document, page no, line no, char string C, W, L, S, P & document	By document, page no, line no, char string C, W, L, S, P & document		Auto Widow Adjust Auto File Sort Auto File Select
Standard	Next, specified no. or all occurrences; auto replacement or deletion	Next, specified no. or all occurrences; auto replacement or deletion	Next, specified no. or all occurrences; auto replacement or deletion		Auto Footnote Tie-In Term Dictionary/Glossary
Standard	Standard	Standard	Standard		COMMUNICATIONS Availability Format & Speed
Standard; also column duplicate Standard	Standard; also column duplicate Standard	Standard; also column duplicate Standard	Standard; also column duplicate Standard		ARITHMETIC CAPABILITY EDP CAPABILITY Multiprogramming Compilers
Standard	Standard for text and footnotes Alphanumeric sort up to six levels Standard	Standard for text and footnotes Alphanumeric sort up to six levels Standard	Standard for text and footnotes Alphanumeric sort up to six levels Standard		Applications Software
Optional	Optional Asynchronous ASCII 300 to 9600 baud, bisyn- chronous 2770 Standard-Math Package	Optional Asynchronous ASCII 300 to 9600 baud, bisyn- chronous 2770 Standard-Math Package	Optional Asynchronous ASCII 300 to 9600 baud, bisyn- chronous 2770 Standard-Math Package		PERIPHERALS
By fields, max. 80-char	Standard None	Standard None	Standard None		BACKGROUND INFO. First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
None Standard, 30,000-word	None	None	None		Rental Lease Maintenance Warranty & Support
Opt. binary synch. trans- parent ASCII, EBCDIC, 300-4800 bps, 2770, 2780, 3770, 3780 Optional	Optional Asynchronous ASCII 300 to 9600 baud, bisyn- chronous 2770 Standard-Math Package	Optional Asynchronous ASCII 300 to 9600 baud, bisyn- chronous 2770 Standard-Math Package	Optional Asynchronous ASCII 300 to 9600 baud, bisyn- chronous 2770 Standard-Math Package		REMARKS & OTHER FEATURES
None None	Standard None	Standard None	Standard None		
None	Optional*	Optional*	Optional*		
Mag card converter, wide- and twin-track printers, hard disk file mgmt. sys	Line printer, OCR, magnetic tape drive	Line printer, OCR, magnetic tape drive	Line printer, OCR, magnetic tape drive		
1975* USA	— USA	— USA	— USA		
\$37,236*	\$26,100	\$52,800	\$69,800 or \$84,800		
Rental & lease prices available on quotation	—	—	—		
—	3rd party	3rd party	3rd party		
By Sorbus	By Comptek	By Comptek	By Comptek		
N/C operator training	30 day warranty; 40 hour training course	30 day warranty; 40 hour training course	30 day warranty; 40 hour training course		
*Basic system 2 display stations, 1 printer, 64K CPU, 2 diskette drives	*Legal financial man- agement package avail- as an option. **Includes CPU, 10 Mb disc, 1 CRT station, 1 daisy wheel printer	*Legal financial man- agement package avail- as an option. **Includes CPU, 30 Mb disc, 1 CRT station, 1 daisy wheel printer	*Legal financial man- agement package avail- as an option. **Includes CPU, 30 Mb disc, 1 CRT station, 1 daisy wheel printer.		





Multi-Terminal Word Processing Systems

COMPANY	Hazeltine	IBM/DPD	IBM/GSD	IBM/GSD
MODEL	OPUS 80	3730	5520/020	5520/030
<b>SYSTEM CONFIGURATION</b>	Multiple Microprocessor 98K Diskette, disk 800K / 14.5-29 MB By document	IBM 3791 208 to 256K Disk, diskette 8.5 to 24.1 Mb By document name	IBM 5525 Sys unit 29Mb Disk/Diskette 1Mb-diskette Document, page	IBM 5525 Sys unit 29Mb Disk/Diskette 1Mb-diskette Document, page
No Keystations Supported	6	12*	To 6	To 12
No Printers Supported	3	8*	3	6
<b>DISPLAY FEATURES</b>	15" diagonal CRT 16K 58 lines x 110 chars	15" diagonal CRT 1920 chars 24 lines x 80 chars	IBM 5253*-15" diagonal 8K buffer 24 line x 80 char (1920 chars total) 8 x 16 dot matrix Contextual C, W, L, P	IBM 5253*-15" diagonal 8K buffer 24 line x 80 char (1920 chars total) 8 x 16 dot matrix Contextual C, W, L, P
<b>Character Generation</b>	5 x 7 dot matrix* By grammatical increments	7 x 9 dot matrix Left, right, up, down.	Standard	Standard
<b>Cursor Positioning</b>	Standard	Standard	To 172 characters	To 172 characters
<b>Vertical Scrolling</b>	Standard	None	Standard	Standard
<b>Horizontal Scrolling</b>	Standard	Standard, intensify	Standard	Standard
<b>Page Scrolling</b>	Standard	None	None	None
<b>Display Highlighting</b>	Standard	None	None	None
<b>Character Size Control</b>	Standard	None	None	None
<b>Character Pitch Display</b>	Standard	None	None	None
<b>Character Spacing Display</b>	Standard	None	None	None
<b>Line Justify Display</b>	Standard	Standard	Standard	Standard
<b>Underscore Display</b>	Standard	Code only	Standard	Standard
<b>Sub/Superscript Display</b>	Standard	Standard	Standard	Standard
<b>Multi-Column Page Display</b>	Standard	None	Standard	Standard
<b>Stored Form Recall/Display</b>	Standard	Standard	Standard	Standard
<b>Control Code Display</b>	Standard	Standard	Standard	Standard
<b>Format Statement Display</b>	Standard	Standard	Standard	Standard
<b>PRINTER FEATURES</b>	40 or 55 cps daisy wh 2K	Daisy wheel 55 cps	55 cps Qume**	55 cps Qume**
<b>Printer Type &amp; Speed</b>	10/12 10/12/proportional	10/12 13.1"	10/12/proportional 13"	10/12/proportional 13"
<b>Printer Buffer Memory</b>	13.2"	15"	14"	14"
<b>Character Pitch/Spacing</b>	Standard	Standard	Standard	Standard
<b>Writing Line Width</b>	Standard	Standard	Standard	Standard
<b>Carnage Paper Width</b>	Standard	Standard	Standard	Standard
<b>First Line Forms Advance</b>	Standard	Standard	Standard	Standard
<b>End-Of-Page Stop</b>	Standard	Standard (interword sp.)	Standard	Standard
<b>Justified Printout</b>	Standard	Standard	Standard	Standard
<b>Sub/Superscript Printout</b>	Standard	Standard	Standard	Standard
<b>Non-Adjust Printout</b>	Standard	Standard	Standard	Standard
<b>Bidirectional Printout</b>	Standard	Standard	Standard	Standard
<b>Simultaneous Printout</b>	Standard	Standard	Standard	Standard
<b>GENERAL FEATURES</b>	Standard	Standard	Standard	Standard
<b>Media-Stored Format</b>	Standard	Standard	Standard	Standard
<b>Default Format Statement</b>	Standard	Standard	Standard	Standard
<b>Stored Multiple Formats</b>	Standard	Standard	Standard	Standard
<b>Machine Dialog/Menu Prompt</b>	Standard	Standard	Standard	Standard
<b>Forms Input</b>	None	None	Standard	Standard
<b>Control Character Printout</b>	Standard	Standard	Standard	Standard
<b>Printout Queuing</b>	Standard	Standard	Standard	Standard
<b>Revision &amp; Status Reporting</b>	Standard	Standard via index entries	Standard	Standard
<b>System Security</b>	Standard	Standard password sign- on by doc get/delete	Standard	Standard
<b>TEXT INPUT FEATURES</b>	Standard	Standard	Standard	Standard
<b>Auto Carriage Return</b>	Standard	Standard	Standard	Standard
<b>Auto Word Wraparound</b>	Standard	Standard	Standard	Standard
<b>Auto Margin Adjust</b>	Standard	Standard	Standard	Standard
<b>Temporary Margins</b>	Standard	Standard	Standard	Standard
<b>Auto Decimal Tab</b>	Standard	Standard	Standard	Standard
<b>Hyphenation</b>	Standard	Manual	Manual Adjustable hot zone	Manual Adjustable hot zone
<b>REMARKS &amp; OTHER FEATURES</b>	*Optional enlarged display	*To a maximum of 16 devices	*May also be configured with the 5254 dual dis- play which shows 12, 80 character lines **May also be con- figured with the 5258 ink jet printer with 92 cps speed	*May also be configured with the 5254 dual dis- play which shows 12, 80 character lines **May also be con- figured with the 5258 ink jet printer with 92 cps speed

Multi-Terminal Word Processing Systems

Hazeltine	IBM/DPD	IBM/GSD	IBM/GSD	COMPANY
OPUS 80	3730	5520/020	5520/030	MODEL
Standard	Standard	Standard	Standard	TEXT INPUT (cont'd) Auto Input Underline Auto Centering
Standard	Standard on printout	Standard	Standard	Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination TEXT EDIT & MERGE Document Assembly/Merge
Standard	Standard	Standard	Standard	Search Capability
Standard	Standard	Standard	Standard	Delete Capability
Standard	Standard	Standard	Standard	Global Search & Replace
Standard	Standard	Standard	Standard	Block Move/Copy
Standard	Standard	Standard	Standard	Column Move/Delete
Standard	Standard	Standard	Standard	Auto Repagination
Standard	Standard	Standard	Standard	Auto Widow Adjust
Standard	Standard	Standard	Standard	Auto File Sort
Standard	Standard	Standard	Standard	Auto File Select
Standard	Standard	Standard	Standard	Auto Footnote Tie-In Term Dictionary/Glossary
Standard	Standard	Standard	Standard	COMMUNICATIONS Availability Format & Speed
Optional 2780 3780, TTY	Standard SDLC, 1200 to 9600 bps	Std. Avail 11/80 Electronic Mail*	Standard	ARITHMETIC CAPABILITY EDP CAPABILITY Multiprogramming Compilers
None	None	None	None	Applications Software
None	Standard S 370 Macro Assembler	None	None	PERIPHERALS
None	Auto Correspondence, User Prgm., Host Attach Line Printer,* Mag Card II Attachment	5321 Mag card unit	5321 Mag card unit	BACKGROUND INFO. First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
None	February 1979 USA, UK	February 1980 USA	November 1980 USA	Rental
USA	..	..	..	Lease
\$21,900*-\$59,400	..	..	..	Maintenance
\$812 mo incl main*	..	..	..	Warranty & Support
..	..	..	..	REMARKS & OTHER FEATURES
\$230*	..	..	..	
*Includes CPU 14.5 Mb disk and diskette drive, 1 workstation, 1 daisy- wheel printer	**80- to 230-lpm **Varies by amount of storage & number of terminals.	*Rel 1 of Adminis- trative Processing Program will in- clude text processing and system mgmt software Rel 2, avail in Nov. will provide Electronic Mail and will be supplied to in- stalled base	*Rel 2 of Adminis- trative Processing Program will in- clude Electronic Mail Provides communications be- tween 5520s, OS6, M/CIL, 6240, 6640 Document printer, 6670 Information Dist., Sys/32, and Sys/370	

Multi-Terminal Word Processing Systems

COMPANY	IBM/GSD	IBM/GSD	Lanier	Lanier
MODEL	5520/040	5520/050	SS	SS-A
SYSTEM CONFIGURATION	IBM 5525 Sys unit 65Mb Disk/Diskette 1Mb-diskette Document, page	IBM 5525 Sys unit 130Mb 2 Diskette magazines & 1 Mb/diskette Document, page	— to 192K to 4 disks, opt disk to 600 chars /diskette By document name & page number to 1, 4 or 8 to 10	— to 192K to 4 disks, opt disk to 600 chars /diskette By document name & page number to 1, 4 or 8 to 10
No Keystations Supported No Printers Supported DISPLAY FEATURES Screen Size & Type Display Buffer Memory Format & Capacity	IBM 5253*-15" diagonal 8K buffer 24 line x 80 char (1920 chars total) 8 x 16 dot matrix Contextual C, W, L, P	IBM 5253*-15" diagonal 8K buffer 24 line x 80 char (1920 chars total) 8 x 16 dot matrix Contextual C, W, L, P	12" diagonal CRT 8,000 chars 28 lines x 80 chars (2240 chars total) Dot matrix Left, right, up, down, home, end Standard to 99 lines Standard to 254 chars	12" diagonal CRT 8,000 chars 28 lines x 80 chars (2240 chars total) Dot matrix Left, right, up, down, home, end Standard to 99 lines Standard to 254 chars
Character Generation Cursor Positioning	Standard To 172 characters	Standard To 172 characters	Standard None Standard to 254 chars	Standard None Standard to 254 chars
Vertical Scrolling Horizontal Scrolling Page Scrolling Display Highlighting Character Size Control Character Pitch Display Character Spacing Display Line Spacing Display Line Justify Display Underscore Display Sub/Superscript Display Multi-Column Page Display Stored Form Recall/Display Control Code Display Format Statement Display	Standard Standard Standard None None None None None Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard None None None None None Standard Standard Standard Standard Standard Standard Standard	Standard None Standard None None None Codes only Standard Standard Standard Standard Standard Standard Standard	Standard None Standard None None None Codes only Standard Standard Standard Standard Standard Standard Standard
PRINTER FEATURES Printer Type & Speed Printer Buffer Memory Character Pitch/Spacing Writing Line Width Carriage Paper Width First Line Forms Advance End-Of-Page Stop Justified Printout Sub/Superscript Printout Non-Adjust Printout Bidirectional Printout Simultaneous Printout	55 cps Qume** — 10/12 proportional 13" 14" Standard Standard Standard Standard Standard Standard Standard	55 cps Qume** — 10/12 proportional 13" 14" Standard Standard Standard Standard Standard Standard Standard	Qume 45 cps daisy wh — 6, 8, 10, 12, 15 13", 26" optional 15", 28" optional Standard Standard Standard Standard Standard Standard	Qume 45 cps daisy wh — 6, 8, 10, 12, 15, prop** 13", 26" optional 15", 28" optional Standard Standard Standard Standard Standard Standard
GENERAL FEATURES Media-Stored Format Default Format Statement Stored Multiple Formats Machine Dialog/Menu Prompt	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Status mess. on top line of disp command ver Standard Limited	Standard Standard Standard Status mess. on top line of disp command ver Standard Limited
Forms Input Control Character Printout Printout Queuing	Standard None Standard	Standard None Standard	Standard — Optional	Standard — Optional
Revision & Status Reporting	Standard	Standard	Optional	Optional
System Security	Standard	Standard	Optional	Optional
TEXT INPUT FEATURES Auto Carrier Return Auto Word Wraparound Auto Margin Adjust Temporary Margins	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard
Auto Decimal Tab Hyphenation	Standard Manual Adjustable hot zone	Standard Manual Adjustable hot zone	Standard Manual scan before printout, semi-auto	Standard Manual scan before printout, semi-auto
REMARKS & OTHER FEATURES	*May also be configured with the 5254 dual dis- play which shows 12, 80 character lines. **May also be con- figured with the 5258 ink jet printer with 92 cps speed.	*May also be configured with the 5254 dual dis- play which shows 12, 80 character lines. **May also be con- figured with the 5258 ink jet printer with 93 cps speed.	—	*Available w/ Advanced Scientific software pkg

Multi-Terminal Word Processing Systems

COMPANY	IBM/GSD	IBM/GSD	Lanier	Lanier	MODEL
	5520/040	5520/050	SS	SS-A	TEXT INPUT (cont'd) Auto Input Underline Auto Centering
	Standard Standard	Standard Standard	Standard Centers between margins*	Standard Centers between margins*	Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination TEXT EDIT & MERGE Document Assembly/Merge
	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard	Standard Standard Standard Standard	Search Capability Delete Capability Global Search & Replace
	Standard background or interactive	Standard background or interactive	Stored text assembled & merged w/ keyboarded text	Stored text assembled & merged w/ keyboarded text	Block Move/Copy Column Move/Delete Auto Repagination
	By document, page no, char string, C, W, L, P By document, page, block, C, W, L, P Standard	By document, page no, char string, C, W, L, P By document, page, block, C, W, L, P Standard	By document name, page no, cursor positioning C, W, L, P, remainder or specified block Optional	By document name, page no, cursor positioning C, W, L, P, remainder or specified block Optional	Auto Widow Adjust Auto File Sort Auto File Select
	Standard	Standard	Standard	Standard	Auto Footnote Tie-In Term Dictionary/Glossary
	None	None	Optional	Optional	COMMUNICATIONS Availability Format & Speed
	Standard	Standard	Standard	Standard	ARITHMETIC CAPABILITY EDP CAPABILITY Multiprogramming Compilers
	Standard	None	None	None	Applications Software
	Standard	None	None	None	PERIPHERALS
	None	None	Manual None	Optional w/ Adv Edit None	BACKGROUND INFO First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
	Std Avail 11/80 Electronic Mail*	Std Avail 11/80 Electronic Mail*	Optional Synchronous Textran (Lanier internal) half- duplex to 1200 bps** Optional	Optional Synchronous Textran (Lanier internal) half- duplex to 1200 bps** Optional	Rental Lease Maintenance
	Standard	Standard	None None	None None	Warranty & Support
	None	None	Search & Replace, Auto Repagination*** OCR Scanner, Wide Track printer, Communications Twin Track printer****	Adv Edit, Adv Print, Adv Scientific*** OCR Scanner, Wide Track printer, Communications, Twin Track printer****	REMARKS & OTHER FEATURES
	5321 Mag card unit	5321 Mag card unit	—	—	
	November 1980 USA	November 1980 USA	November 1979 USA	November 1979 USA	
	—	—	*****	*****	
	Dependent upon configuration	Dependent upon configuration	—	—	
	—	—	—	—	
	—	—	—	—	
	—	—	90 day warranty	90 day warranty	
	*Rel 2 of Adminis- trative Processing Program will in- clude Electronic Mail Provides communications be- tween 5520, 056, M. C. II, 6240, 6640 Document printer, 6670 Information Dist. Sys. 32, and Sys. 370	*Rel 2 of Adminis- trative Processing Program will in- clude Electronic Mail Provides communications be- tween 5520, 056, M. C. II, 6240, 6640 Document printer, 6670 Information Dist. Sys. 32, and Sys. 370	**Multiple lines may be entered w/ 1 command **Async TTY ASCII full duplex to 9600 bps ***Line drawing, Statis- tical, Building Blocks, List Merge ****300 lpm printer, fixed & floppy disk storage & others *****See pg S13-564-301	**Multiple lines may be entered w/ 1 command **Async TTY ASCII full duplex to 9600 bps ***Search & Replace, Augo Repagination, Statistical & others ****300 lpm printer, fixed & floppy disk storage & others *****See pg S13-564- 301	



Multi-Terminal Word Processing Systems

COMPANY	Nixdorf	Q1 Corporation	Royal	Syntax
MODEL	Multi-Text 8840	Q1/Lite	7000 Shared System	Shared System
SYSTEM CONFIGURATION	Nixdorf 600/30 System CPU / Controller CPU Controller Memory System Storage Media Storage Capacity File Organization	Q1/Lite 64K Disk and/or diskette 5Mb, 25Mb, 54Mb disk By document	Royal CPU 256K Diskette/Disk 85,000 char / disk, 5Mb By document	Syntax 256K Winchester Disk 5 Mb - 120 Mb
No Keystations Supported	2 (min), 4 (max)	16 16	6 6	4, 14 2
No Printers Supported	12" diagonal CRT	Gas plasma 9" diag	10 1/2" x 8"	15" diagonal screen
DISPLAY FEATURES	1920 chars	12 lines x 40 chars	1920 chars	25 line by 80 char
Screen Size & Type	24 lines x 80 chars (1920 chars total)	5 x 7 dot matrix	24 lines x 80 chars	2000 char total
Display Buffer Memory	8 x 8 dot matrix	5 x 7 dot matrix	10 x 12 dot matrix	7 x 9 dot matrix
Format & Capacity	Left, right, up, down	Left, right, up, down	L, R, up, down, home	Up, down, left, right, word, sentence, para
Character Generation	Standard	Standard	Standard	Standard
Cursor Positioning	Standard	Standard	Standard	Standard
Vertical Scrolling	Standard	Standard	Standard	Standard
Horizontal Scrolling	Standard	Standard	Standard	Standard
Page Scrolling	Standard	Standard	Standard	Standard
Display Highlighting	Standard	Standard	Standard	Standard
Character Size Control	None	Standard	Standard	Standard
Character Pitch Display	Standard	Standard	Standard	Standard
Character Spacing Display	None	Standard	Standard	Standard
Line Spacing Display	Standard	Standard	Standard	Standard
Line Justify Display	Standard	Code only	Standard	Standard
Underscore Display	Standard	Code only	Standard	Standard
Sub-Superscript Display	Manual	Standard	Standard	Standard
Multi-Column Page Display	Limited	Standard	Standard	Standard
Stored Form Recall/Display	Standard	Standard	Standard	Standard
Control Code Display	Standard	Standard	Standard	Standard
Format Statement Display	Standard	Standard	Standard	Standard
PRINTER FEATURES	Diablo daisy 45 cps	Daisy wh 40 or 45 cps	Daisy wheel, 45 cps	Qume 55 cps daisy wh
Printer Type & Speed	138 chars	10/11/12 prop	10/12/15/proportional	10/12/15/proportional
Printer Buffer Memory	10/12	13 1/2"	13"	13 2"
Character Pitch Spacing	13"	15"	15"	15"
Writing Line Width	Standard	Standard	Standard	Standard
Carrriage Paper Width	Standard	Standard	Standard	Standard
First Line Forms Advance	Standard	Standard	Standard	Standard
End-Of-Page Stop	Standard	Standard	Standard	Standard
Justified Printout	Standard	Standard	Standard	Standard
Sub-Superscript Printout	Standard	Standard	Standard	Standard
Non-Adjust Printout	Standard	Standard	Standard	Standard
Bidirectional Printout	Standard	Standard	Standard	Standard
Simultaneous Printout	Standard	Standard	Standard	Standard
GENERAL FEATURES	Standard	Standard	Standard	Standard
Media-Stored Format	Standard	Standard	Standard	Standard
Default Format Statement	Standard	Limited cueing	Standard	Standard
Stored Multiple Formats	Standard	Standard	Standard	Standard
Machine Dialog / Menu Prompt	None	Standard	Standard	Standard
Forms Input	Standard	Standard	Standard	Standard
Control Character Printout	Standard	Standard	Standard	Standard
Printout Queuing	Optional	None	Standard	Optional**
Revision & Status Reporting	Standard	File protect	None	Standard
System Security	Standard	Standard	Standard	Standard
TEXT INPUT FEATURES	Standard	Standard	Standard	Standard
Auto Carriage Return	Standard	Standard	Standard	Standard
Auto Word Wraparound	Standard	Standard	Standard	Standard
Auto Margin Adjust	Standard	Standard	Standard	Standard
Temporary Margins	Standard	Standard	Standard	Standard
Auto Decimal Tab	Standard	Standard	Standard	Standard
Hyphenation	2 to 10 char adjustable Hot Zone	Manual	Manual, adjustable hot zone	Manual, hyphenation dictionary optional***
REMARKS & OTHER FEATURES	*1 standard, 2 optional 250K char / diskette			*Syntax Gemini and Capricorn **Basic software option ***Advanced Function package

Multi-Terminal Word Processing Systems

COMPANY	Nixdorf	Q1 Corporation	Royal	Syntax	COMPANY
MODEL	Multi-Text 8840	Q1/Lite	7000 Shared System	Shared System	MODEL
SYSTEM CONFIGURATION	Nixdorf 600/30 System CPU / Controller CPU Controller Memory System Storage Media Storage Capacity File Organization	Q1/Lite 64K Disk and/or diskette 5Mb, 25Mb, 54Mb disk By document	Royal CPU 256K Diskette/Disk 85,000 char / disk, 5Mb By document	Syntax 256K Winchester Disk 5 Mb - 120 Mb	TEXT INPUT (cont'd) Auto Input Underline Auto Centering
No Keystations Supported	2 (min), 4 (max)	16 16	6 6	4, 14 2	Auto Line Spacing Auto Page Numbering Auto Headers / Footers Auto Repagination TEXT EDIT & MERGE Document Assembly/Merge
No Printers Supported	12" diagonal CRT	Gas plasma 9" diag	10 1/2" x 8"	15" diagonal screen	Search Capability
DISPLAY FEATURES	1920 chars	12 lines x 40 chars	1920 chars	25 line by 80 char	Delete Capability
Screen Size & Type	24 lines x 80 chars (1920 chars total)	5 x 7 dot matrix	24 lines x 80 chars	2000 char total	Global Search & Replace
Display Buffer Memory	8 x 8 dot matrix	5 x 7 dot matrix	10 x 12 dot matrix	7 x 9 dot matrix	Block Move/Copy
Format & Capacity	Left, right, up, down	Left, right, up, down	L, R, up, down, home	Up, down, left, right, word, sentence, para	Column Move/Delete
Character Generation	Standard	Standard	Standard	Standard	Auto Repagination
Cursor Positioning	Standard	Standard	Standard	Standard	Auto Widow Adjust
Vertical Scrolling	Standard	Standard	Standard	Standard	Auto File Sort
Horizontal Scrolling	Standard	Standard	Standard	Standard	Auto File Select
Page Scrolling	Standard	Standard	Standard	Standard	Auto Footnote Tie-In
Display Highlighting	Standard	Standard	Standard	Standard	Term Dictionary/Glossary
Character Size Control	None	Standard	Standard	Standard	COMMUNICATIONS
Character Pitch Display	Standard	Standard	Standard	Standard	Availability
Character Spacing Display	None	Standard	Standard	Standard	Format & Speed
Line Spacing Display	Standard	Standard	Standard	Standard	ARITHMETIC CAPABILITY
Line Justify Display	Standard	Code only	Standard	Standard	EDP CAPABILITY
Underscore Display	Standard	Code only	Standard	Standard	Multiprogramming
Sub-Superscript Display	Manual	Standard	Standard	Standard	Compilers
Multi-Column Page Display	Limited	Standard	Standard	Standard	Applications Software
Stored Form Recall/Display	Standard	Standard	Standard	Standard	PERIPHERALS
Control Code Display	Standard	Standard	Standard	Standard	Comm. Shared Device Interface, Clustered Sys Connect, Adv Functions Pkg., Doc.***
Format Statement Display	Standard	Standard	Standard	Standard	First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
PRINTER FEATURES	Diablo daisy 45 cps	Daisy wh 40 or 45 cps	Daisy wheel, 45 cps	Qume 55 cps daisy wh	\$25,500****
Printer Type & Speed	138 chars	10/11/12 prop	10/12/15/proportional	10/12/15/proportional	—
Printer Buffer Memory	10/12	13 1/2"	13"	13 2"	To be announced
Character Pitch Spacing	13"	15"	15"	15"	To be announced
Writing Line Width	Standard	Standard	Standard	Standard	To be announced
Carrriage Paper Width	Standard	Standard	Standard	Standard	To be announced
First Line Forms Advance	Standard	Standard	Standard	Standard	To be announced
End-Of-Page Stop	Standard	Standard	Standard	Standard	To be announced
Justified Printout	Standard	Standard	Standard	Standard	To be announced
Sub-Superscript Printout	Standard	Standard	Standard	Standard	To be announced
Non-Adjust Printout	Standard	Standard	Standard	Standard	To be announced
Bidirectional Printout	Standard	Standard	Standard	Standard	To be announced
Simultaneous Printout	Standard	Standard	Standard	Standard	To be announced
GENERAL FEATURES	Standard	Standard	Standard	Standard	To be announced
Media-Stored Format	Standard	Standard	Standard	Standard	To be announced
Default Format Statement	Standard	Limited cueing	Standard	Standard	To be announced
Stored Multiple Formats	Standard	Standard	Standard	Standard	To be announced
Machine Dialog / Menu Prompt	None	Standard	Standard	Standard	To be announced
Forms Input	Standard	Standard	Standard	Standard	To be announced
Control Character Printout	Standard	Standard	Standard	Standard	To be announced
Printout Queuing	Optional	None	Standard	Optional**	To be announced
Revision & Status Reporting	Standard	File protect	None	Standard	To be announced
System Security	Standard	Standard	Standard	Standard	To be announced
TEXT INPUT FEATURES	Standard	Standard	Standard	Standard	To be announced
Auto Carriage Return	Standard	Standard	Standard	Standard	To be announced
Auto Word Wraparound	Standard	Standard	Standard	Standard	To be announced
Auto Margin Adjust	Standard	Standard	Standard	Standard	To be announced
Temporary Margins	Standard	Standard	Standard	Standard	To be announced
Auto Decimal Tab	Standard	Standard	Standard	Standard	To be announced
Hyphenation	2 to 10 char adjustable Hot Zone	Manual	Manual, adjustable hot zone	Manual, hyphenation dictionary optional***	To be announced
REMARKS & OTHER FEATURES	*1 standard, 2 optional 250K char / diskette			*Syntax Gemini and Capricorn **Basic software option ***Advanced Function package	To be announced

Multi-Terminal Word Processing Systems

COMPANY	Telex Terminal Comm.	Wang	Wang	Wang
MODEL	2100 GAT*	WPS 20	WPS 25	WPS 30
SYSTEM CONFIGURATION				
System CPU / Controller	Dual Intel 8080A	8080 microprocessors	8080 microprocessors	8080 microprocessors
CPU Controller Memory	88K	16K station, 32K CPU	16K station, 32K CPU	16K station, 32K CPU
System Storage Media	Diskette	Disk & diskette	Disk & diskette	Disk & diskette
Storage Capacity	250K chars / diskette	300K chars / diskette	1.25, 2.5 or 5 Mb disc*	10Mb&2.75Mb to 825Mb*
File Organization	By document (max 30)	By document & page no.	By document & page no.	By document & page no.
No Keystations Supported	3	3	6 I/O devices (Mod 1)	14 workstations / printers
No Printers Supported	1	3	14 I/O dev. (Mod 2 & 3)	14 workstations / printers
DISPLAY FEATURES				
Screen Size & Type	15" diagonal CRT	12" diagonal CRT	12" diagonal CRT	12" diagonal CRT
Display Buffer Memory	1920 chars	8K	8K	8K
Format & Capacity	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars (1920 chars total)
Character Generation	7 x 8 dot matrix	8 x 8 dot matrix	8 x 8 dot matrix	8 x 8 dot matrix
Cursor Positioning	Left, right, up, down, top, bottom of page	Left, right, up, down, home, rev home	Left, right, up, down, home, rev home	Left, right, up, down, home, rev home
Vertical Scrolling	Standard	Standard	Standard	Standard
Horizontal Scrolling	None	Standard	Standard	Standard
Page Scrolling	Standard	Standard	Standard	Standard
Display Highlighting	Intensify, reverse	Intensify	Intensify	Intensify
Character Size Control	None	None	None	None
Character Pitch Display	None	None	None	None
Character Spacing Display	None	None	None	None
Line Spacing Display	None	None	None	None
Line Justify Display	Standard	Standard	Standard	Standard
Underscore Display	Standard	Standard	Standard	Standard
Sub-Superscript Display	Codes only	Codes only	Codes only	Codes only
Multi-Column Page Display	None	Standard	Standard	Standard
Stored Form Recall / Display	Standard	Standard	Standard	Standard
Control Code Display	Standard	Standard	Standard	Standard
Format Statement Display	Standard	Standard	Standard	Standard
PRINTER FEATURES				
Printer Type & Speed	Daisy wheel 30 cps	Daisy wheel 40 cps*	Daisy wheel 40 cps**	Daisy wheel 40 cps*
Printer Buffer Memory	4560 chars	16K	16K	16K
Character Pitch / Spacing	Proportional	10 / 12 / prop	10 / 12 / prop	10 / 12 / prop
Writing Line Width	13 2"	15"	13 2"	15"
Carriage Paper Width	15"	15"	15"	15"
First Line Forms Advance	Standard	Standard	Standard	Standard
End-Of-Page Stop	Standard	Standard	Standard	Standard
Justified Printout	Standard	Standard (interword sp.)	Standard (interword sp.)	Standard (interword sp.)
Sub-Superscript Printout	Standard	Standard	Standard	Standard
Non-Adjust Printout	Standard	Standard	Standard	Standard
Bidirectional Printout	None	Standard	Standard	Standard
Simultaneous Printout	Standard	Standard	Standard	Standard
GENERAL FEATURES				
Media Stored Format	Standard	Standard	Standard	Standard
Default Format Statement	Standard	Standard	Standard	Standard
Stored Multiple Formats	Standard	Standard	Standard	Standard
Machine Dialog / Menu Prompt	Standard	Standard	Standard	Standard
Forms Input	Standard	Standard	Standard	Standard
Control Character Printout	Standard	None	None	None
Printout Queuing	Standard	Standard	Standard	Standard
Revision & Status Reporting	Via Index & File directory	Via Index entries	Via Index entries	Via Index entries
System Security	Diskette assigned to specific terminal	Optional 3-level password	Optional 3-level password	Optional 3-level password
TEXT INPUT FEATURES				
Auto Carrier Return	Standard	Standard	Standard	Standard
Auto Word Wraparound	Standard	Standard	Standard	Standard
Auto Margin Adjust	Standard	Standard	Standard	Standard
Temporary Margins	Standard	Standard	Standard	Standard
Auto Decimal Tab Hyphenation	None	Standard	Standard	Standard
	Discretionary dictionary** & algorithm	System scan before printout, operator decision	System scan before printout, operator decision	System scan before printout, operator decision
REMARKS & OTHER FEATURES	*Graphic Arts Terminal **3,000 word standard, can be edited & printed.	**120 cps, 200 cps, & 40 cps wide carriage also available	*300 char / diskette Model 1 1.25 Mb disc, Model 2 2.5 Mb disc, Model 3 5 Mb disc, all single diskette **120 cps, 200 cps, 425 lpm & 40 cps wide carriage also available	*120 cps, 200 cps, 425 lpm & 40 cps wide carriage also available

Multi-Terminal Word Processing Systems

Telex Terminal Comm.	Wang	Wang	Wang	COMPANY
2100 GAT	WPS 20	WPS 25	WPS 30	MODEL
None	Standard	Standard	Standard	TEXT INPUT (cont'd)
Standard	Centers between margins	Centers between margins	Centers between margins	Auto Input Underline
Standard	Standard	Standard	Standard	Auto Centering
None	Standard	Standard	Standard	Auto Line Spacing
None	Standard	Standard	Standard	Auto Page Numbering
None	Standard	Standard	Standard	Auto Headers / Footers
None	Standard	Standard	Standard	Auto Pagination
Stored text merged with keyboarded text to form new document	Stored text assembled & merged w/keyboarded text to form new document	Stored text assembled & merged w/keyboarded text to form new document	Stored text assembled & merged w/keyboarded text	TEXT EDIT & MERGE
By document, char string & cursor pos. C. W. L. S. P. document	By document & page no. char string C. W. L. S. P.	By document & page no. char string C. W. L. S. P.	By document & page no. char string C. W. L. S. P.	Document Assembly / Merge
Next, specified no. or all occurrences, auto replacement or deletion	Next or all occurrences, manual or auto replacement or deletion	Next or all occurrences, manual or auto replacement or deletion	Next or all occurrences, manual or auto replacement or deletion	Search Capability
Standard	Standard	Standard	Standard	Delete Capability
None	Standard	Standard	Standard	Global Search & Replace
None	System scan before printout, operator decision	System scan before printout, operator decision	System scan before printout, operator decision	Block Move / Copy
None	Manual	Manual	Manual	Column Move / Delete
None	Optional	Optional	Optional	Auto Repagination
Standard	Standard	Standard	Standard	Auto Widow Adjust
Standard	Standard	Standard	Standard	Auto File Sort
Standard	Standard	Standard	Standard	Auto File Select
Standard	Standard (virtually unlimited)	Standard (virtually unlimited)	Standard	Auto Footnote Tie-In
Standard	Standard (virtually unlimited)	Standard (virtually unlimited)	Standard	Term Dictionary / Glossary
To be announced	Optional IBM 2741, 2780, or 3780. TTY-compatible, 134.5 to 9600 baud	Optional IBM 2741, 2780, 3780. TTY-compatible, 134.5 to 9600 baud	Optional IBM 2741, 2780, 3780. TTY-compatible, 134.5 to 9600 baud	COMMUNICATIONS
None	Optional	Optional	Optional	Availability
None	Standard	Standard	Standard	Format & Speed
None	None	Standard	Standard	ARITHMETIC CAPABILITY
None	None	Standard	Standard	EDP CAPABILITY
None	None	Standard	Standard	Multi-programming
None	None	Standard	Standard	Compilers
Phototypesetting, H & J	Math Support, Sort, System Security	Math Support, Sort, System Security	Math Support, Sort, System Security	Applications Software
On-line photocomposer, forms tractor, line printer	120 / 200 cps, paper tape punch, photocomp. OCR, mag card reader	120 / 200 cps, 425 lpm line printers, paper tape punch, photocomp., OCR*	120 / 200 cps, 425 lpm line printers, paper tape punch, photocomp., OCR*	PERIPHERALS
1977	September 1976	May 1978	September 1976	BACKGROUND INFO.
USA	USA	USA	USA	First Delivery Date
25	50,000 + workstations*	50,000 + workstations**	50,000 + workstations**	Country of Manufacture
\$17,800**	\$16,600**	\$22,100 (Model 1)*** \$25,600 (Model 3)*** \$1,039*** (incl maint.) (1 yr terms)	\$27,100***	Installed Base Estimate
Not Available	\$781** incl maint (1 yr terms)	\$1,274*** incl maint (1 yr terms)	\$1,274*** incl maint (1 yr terms)	PRICING & TERMS
3rd party only	Available upon request	Available upon request	Available upon request	Purchase
By mfr	\$101 mo. leased or purchased systems**	\$211-\$239/mo., leased or purchased systems***	\$250 mo. leased or purchased systems***	Rental
90 days	90 day warranty, on-going support	90 day warranty, on-going support	90 day warranty, on-going support	Lease
3 days N.C. operator training	*For Wang WP/OIS series **Includes work station, printer, CPU & dual diskette drives	*Archiving Workstation, mag card reader **For Wang WP/OIS series ***Includes work station, printer, CPU, disk controller & single diskette	*Archiving Workstation, mag card reader **For Wang WP/OIS series ***Includes workstation, printer, CPU, disk controller & single diskette	Maintenance
				Warranty & Support
				REMARKS & OTHER FEATURES



Multi-Terminal Word Processing Systems

COMPANY	Wang	Wang	Wang	Wang
MODEL	OIS 105	OIS 115	OIS 125A	OIS 130A
SYSTEM CONFIGURATION				
System CPU: Controller	Z80 microprocessors	Z80 microprocessors	Z80 microprocessors	Z80 microprocessors
CPU: Controller Memory	64K CPU, 32K worksta	64K CPU, 32K worksta	64K CPU, 32K worksta	64K CPU, 32K worksta
System Storage Media	Disk & diskette	Disk & diskette	Disk & diskette	Disk & diskette
Storage Capacity	2.5 Mb disk*	4.2 or 8.4 Mb disk*	5 Mb disk, 300K dskt	2 to 20 Mb disk*
File Organization	By document & page	By document & page	By document & page	By document & page
No Keystations Supported	2	8	16 worksta./printers	16 worksta./printers
No Printers Supported	2	8	16 worksta./printers	16 worksta./printers
DISPLAY FEATURES				
Screen Size & Type	12" diagonal CRT	12" diagonal CRT	12" diagonal CRT	12" diagonal CRT
Display Buffer Memory	8K	8K	8K	8K
Format & Capacity	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars (1920 chars total)	24 lines x 80 chars (1920 chars total)
Character Generation	8 x 8 dot matrix	8 x 8 dot matrix	8 x 8 dot matrix	8 x 8 dot matrix
Cursor Positioning	Left, right, up, down, home, rev home	Left, right, up, down, home, rev home	Left, right, up, down, home, rev home	Left, right, up, down, home, rev home
Vertical Scrolling	Standard	Standard	Standard	Standard
Horizontal Scrolling	Standard	Standard	Standard	Standard
Page Scrolling	Standard	Standard	Standard	Standard
Display Highlighting	Intensity	Intensity	Intensity	Intensity
Character Size Control	None	None	None	None
Character Pitch Display	None	None	None	None
Character Spacing Display	None	None	None	None
Line Spacing Display	None	None	None	None
Line Justify Display	None	None	None	None
Underscore Display	Standard	Standard	Standard	Standard
Sub/Superscript Display	Codes only	Codes only	Codes only	Codes only
Multi-Column Page Display	Standard	Standard	Standard	Standard
Stored Form Recall/Display	Standard	Standard	Standard	Standard
Control Code Display	Standard	Standard	Standard	Standard
Format Statement Display	Standard	Standard	Standard	Standard
PRINTER FEATURES				
Printer Type & Speed	Daisy wheel 40 cps**	Daisy wheel 40 cps*	Daisy wheel 40 cps*	Daisy wheel 40 cps**
Printer Buffer Memory	16K	16K	16K	16K
Character Pitch/Spacing	10/12/prop	10/12/prop	10/12/prop	10/12/prop
Writing Line Width	13 2"	13 2"	13 2"	13 2"
Carriage Paper Width	15"	15"	15"	15"
First Line Forms Advance	Standard	Standard	Standard	Standard
End-Of-Page Stop	Standard	Standard	Standard	Standard
Justified Printout	Standard (interword sp)	Standard (interword sp)	Standard (interword sp)	Standard (interword sp)
Sub/Superscript Printout	Standard	Standard	Standard	Standard
Non-Adjust Printout	Standard	Standard	Standard	Standard
Bidirectional Printout	Standard	Standard	Standard	Standard
Simultaneous Printout	Standard	Standard	Standard	Standard
GENERAL FEATURES				
Media-Stored Format	Standard	Standard	Standard	Standard
Default Format Statement	Standard	Standard	Standard	Standard
Stored Multiple Formats	Standard	Standard	Standard	Standard
Machine Dialog/Menu Prompt	Standard	Standard	Standard	Standard
Forms Input	Standard	Standard	Standard	Standard
Control Character Printout	None	None	None	None
Printout Queuing	Standard	Standard	Standard	Standard
Revision & Status Reporting	Via Index entries	Via Index entries	Via Index entries	Via Index entries
System Security	Standard, 3-level password	Standard, 3-level password	Standard, 3-level password	Standard, 3-level password
TEXT INPUT FEATURES				
Auto Carrier Return	Standard	Standard	Standard	Standard
Auto Word Wraparound	Standard	Standard	Standard	Standard
Auto Margin Adjust	Standard	Standard	Standard	Standard
Temporary Margins	Standard	Standard	Standard	Standard
Auto Decimal Tab	Standard	Standard	Standard	Standard
Hyphenation	System scan before printout	System scan before printout	System scan before printout	System scan before printout
REMARKS & OTHER FEATURES	*300K char./diskette **Also 120- or 200-cps line printer, 425-lpm printer, Twin Head printer, Image Printer, Wide Carriage Printer.	*Also 120- or 200-cps line printer, 425-lpm printer, Twin Head printer, Image Printer, Wide Carriage Printer.	*Also 120- or 200-cps line printer, 425-lpm printer, Twin Head printer, Image Printer, Wide Carriage Printer.	*Also 120- or 200-cps line printer, 425-lpm printer, Twin Head printer, Image Printer, Wide Carriage Printer.

Multi-Terminal Word Processing Systems

Wang	Wang	Wang	Wang	COMPANY
OIS 105	OIS 115	OIS 125	OIS 130	MODEL
Standard Centers between margins	Standard Centers between margins	Standard Centers between margins	Standard Centers between margins	TEXT INPUT (cont'd) Auto Input Underline Auto Centering
Standard	Standard	Standard	Standard	Auto Line Spacing Auto Page Numbering Auto Headers/Footers Auto Pagination TEXT EDIT & MERGE Document Assembly/Merge
Standard	Standard	Standard	Standard	Search Capability
Standard	Standard	Standard	Standard	Delete Capability
Standard	Standard	Standard	Standard	Global Search & Replace
Stored text assembled & merged w/keyboarded text to form new document By document & page no. char string C. W. L. S. P.	Stored text assembled & merged w/keyboarded text to form new document By document & page no. char string C. W. L. S. P.	Stored text assembled & merged w/keyboarded text to form new document By document & page no. char string C. W. L. S. P.	Stored text assembled & merged w/keyboarded text to form new document By document & page no. char string C. W. L. S. P.	Block Move/Copy
Next or all occurrences, manual or auto replacement or deletion	Next or all occurrences, manual or auto replacement or deletion	Next or all occurrences, manual or auto replacement or deletion	Next or all occurrences, manual or auto replacement or deletion	Column Move/Delete
Standard	Standard	Standard	Standard	Auto Repagination
Standard	Standard	Standard	Standard	Auto Widow Adjust
System scan before printout; operator decision Manual	System scan before printout; operator decision Manual	System scan before printout; operator decision Manual	System scan before printout; operator decision Manual	Auto File Sort
Standard	Standard	Standard	Standard	Auto File Select
Standard	Standard	Standard	Standard	Auto Footnote Tie-In Term Dictionary/Glossary
Optional IBM 2740, 2780, 3780, 3270, TTY-compat., 134.5 to 9600 bps Standard	Optional IBM 2741, 2780, 3780, 3270, TTY-compat., 134.5 to 9600 baud Standard	Optional IBM 2741, 2780, 3780, 3270, TTY-compat., 134.5 to 9600 baud Standard	Optional IBM 2741, 2780, 3780, 3270, TTY-compat., 134.5 to 9600 bps Standard	COMMUNICATIONS Availability Format & Speed
Standard BASIC	Standard BASIC	Standard BASIC	Standard BASIC	ARITHMETIC CAPABILITY EDP CAPABILITY Multiprogramming Compilers
Forms Mgmt., Sort, Sys Security, Math Supp., Image Printer, 120, 200 cps, 425 lpm printers, photocomp., paper tape*	Forms Mgmt., Sort, Sys Security, Math Supp., Image Printer, 120, 200 cps, 425 lpm printers, photocomp., paper tape*	Forms Mgmt., Sort, Sys Security, Math Supp., Image Printer, 120, 200 cps, 425 lpm printers, photocomp., paper tape*	Forms Mgmt., Sort, Sys Security, Math Supp., Image Printer, 120, 200 cps, 425 lpm printers, photocomp., paper tape**	Applications Software
December 1980 USA 50,000**	December 1980 USA 50,000**	September 1979 USA 50,000 + workstations***	March 1979 USA 50,000 + workstations***	PERIPHERALS
\$9,300	\$13,400 to \$15,400	\$19,600	\$22,600	BACKGROUND INFO First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
\$515/mo (1-yr) \$465/mo (2-yr) Available upon request	\$740-\$850/mo (1-yr)*** \$670-\$770/mo (2-yr)*** Available upon request	\$1,000/mo (1 year)**** \$735/mo (2-year)**** Available upon request	\$1,150/mo (1-year)**** \$1,085/mo (2-year)**** Available upon request	Rental
95\$	\$120 to \$132/mo	\$198/mo	\$198/mo	Lease
90 day warranty, on-going support	90 day warranty, on-going support	90 day warranty, on-going support	90 day warranty, on-going support	Maintenance
**OCR, mag card reader, typesetter 48, wide carriage printer, Archiving Workstation, WISE, Mailways, Twin Head Printer	**OCR, mag card reader, typesetter 48, Archiving Workstation, Wide carriage, Twin Head printers, Forms Management, WISE, Mailways.	**OCR, mag card reader, typesetter 48, Archiving Workstation, Wide Carriage, Twin Head printers, WISE, Mailways, 48K, 64K, V/S	**OCR, mag card reader, typesetter 48, wide carriage printer, Archiving Workstation, WISE, Mailways, Twin Head Printer, 48K, 64K, V/S	Warranty & Support
**For Wang WP/OIS Series.	**For Wang WP/OIS Series.	**For Wang WP/OIS Series.	**For Wang WP/OIS Series.	REMARKS & OTHER FEATURES

Multi-Terminal Word Processing Systems

COMPANY	Wang	Wang	Wordplex	Wordplex*
MODEL	OIS 140	OIS 145	Wordplex /4	Wordplex /7
SYSTEM CONFIGURATION	Z80 microprocessors 64K CPU, 32K worksta CPU, Controller Memory Disk & diskette 26.8 to 80 Mb disk* By document & page	Z80 microprocessors 64K CPU, 32K worksta Disk & diskette 10Mb&2.75Mb to 825Mb* By document & page	Wordplex /4 CPU 64K Disk cartridge 16Mb fixed** Document & page no	Wordplex /7 CPU 128K Disc 80-300 Mb /disk By document & page no
No Keystations Supported	24	24	6	24
No Printers Supported	8	8	4	12
DISPLAY FEATURES	12" diagonal CRT 8K 24 lines x 80 chars (1920 chars total) 8 x 8 dot matrix Left, right, up, down, home, rev home	12" diagonal CRT 8K 24 lines x 80 chars (1920 chars total) 8 x 8 dot matrix Left, right, up, down, home, rev home	12" diagonal 10,000 chars 24 lines x 80 chars (1920 chars total) 7 x 11 dot matrix Left, right, up, down, home	12" diagonal CRT 10,000 chars 24 lines x 80 chars (1920 chars total) 7 x 11 dot matrix Left, right, up, down, home
Character Generation	Standard	Standard	Standard	Standard
Cursor Positioning	Standard	Standard	Standard (to 254 chars)	Standard (to 254 chars)
Vertical Scrolling	Standard	Standard	Standard	Standard
Horizontal Scrolling	Standard	Standard	None	None
Page Scrolling	Standard	Standard	None	None
Display Highlighting	None	None	None	None
Character Size Control	None	None	None	None
Character Pitch Display	None	None	Standard	Standard
Character Spacing Display	None	None	Standard	Standard
Line Spacing Display	None	None	Standard	Standard
Line Justify Display	None	None	Standard	Standard
Underscore Display	Standard	Standard	Codes only	Codes only
Sub / Superscript Display	Standard	Standard	Standard	Standard
Multi-Column Page Display	Standard	Standard	Standard	Standard
Stored Form Recall / Display	Standard	Standard	Standard	Standard
Control Code Display	Standard	Standard	Standard	Standard
Format Statement Display	Standard	Standard	Standard	Standard
PRINTER FEATURES	Daisy wheel 40 cps** 16K 10 / 12 / prop 13 2" 15"	Daisy wheel 40 cps* 16K 10 / 12 / prop 13 2" 15"	Daisy wheel 45 / 55 cps 256 chars 10 / 12 / 15 13 2" 15"	Daisy wheel 45 / 55 cps 256 chars 10 / 12 / 15 13 2" 15"
Printer Type & Speed	Standard	Standard	Standard	Standard
Printer Buffer Memory	Standard	Standard	Standard	Standard
Character Pitch / Spacing	Standard	Standard	Standard	Standard
Writing Line Width	Standard	Standard	Standard	Standard
Carriage Paper Width	Standard	Standard	Standard	Standard
First Line Forms Advance	Standard	Standard	Standard	Standard
End Of Page Stop	Standard (interword sp.)	Standard (interword sp.)	Standard	Standard
Justified Printout	Standard	Standard	Standard	Standard
Sub / Superscript Printout	Standard	Standard	Standard	Standard
Non Adjust Printout	Standard	Standard	Standard	Standard
Bidirectional Printout	Standard	Standard	Standard	Standard
Simultaneous Printout	Standard	Standard	Standard	Standard
GENERAL FEATURES	Standard	Standard	Standard	Standard
Media-Store Format	Standard	Standard	Standard	Standard
Default Format Statement	Standard	Standard	Standard	Standard
Stored Multiple Formats	Standard	Standard	Standard	Standard
Machine Dialog / Menu Prompt	Standard	Standard	Standard	Standard
Forms Input	Standard	Standard	Standard	Standard
Control Character Printout	None	Standard	Standard	Standard
Printout Queuing	Standard	Standard	Standard	Standard
Revision & Status Reporting	Via Index entries	Via Index entries	2-level log-on password	2-level log-on password
System Security	Standard, 3-level pass- word	Standard, 3-level pass- word	Standard	Standard
TEXT INPUT FEATURES	Standard	Standard	Standard	Standard
Auto Carner Return	Standard	Standard	Standard	Standard
Auto Word Wraparound	Standard	Standard	Standard	Standard
Auto Margin Adjust	Standard	Standard	Standard	Standard
Temporary Margins	Standard	Standard	Standard	Standard
Auto Decimal Tab	Standard	Standard	Standard	Standard
Hyphenation	System scan before printout	System scan before printout	Manual scan before printout	Manual, adjustable Hot Zone
REMARKS & OTHER FEATURES	*300K char /diskette **Also 120- or 200-cps line printer, 425-lpm printer, Twin Head printer, Image Printer, Wide Carriage Printer	*300K chars /diskette **Also 120- or 200-cps line printer, 425-lpm printer, Twin Head printer, Image Printer, Wide Carriage Printer	*Dist in US by Lanier ***16Mb removable Optional: 2 x 80 Mb disk	*Dist in US by Lanier

Multi-Terminal Word Processing Systems

Wang	Wang	Wordplex*	Wordplex*	COMPANY
OIS 140	OIS 145	Wordplex /4	Wordplex /7	MODEL
Standard Centers between margins	Standard Centers between margins	Standard Standard	Standard Standard	TEXT INPUT (cont'd) Auto Input Underline Auto Centering
Standard Standard Standard	Standard Standard Standard	Standard Standard Standard	Standard Standard Standard	Auto Line Spacing Auto Page Numbering Auto Headers /Footers Auto Pagination TEXT EDIT & MERGE Document Assembly/Merge
Stored text assembled & merged w /keyboared text to form new document By document & page no char string C W L S P	Stored text assembled & merged w /keyboared text to form new document By document & page no char string C W L S P	By document name, page no, character string C, W, L, S, P	By document name, page no, character string C, W, L, S, P	Search Capability
Next or all occurrences, manual or auto replace- ment or deletion	Next or all occurrences, manual or auto replace- ment or deletion	Standard	Standard	Delete Capability
Standard	Standard	Standard	Standard	Global Search & Replace
Standard	Standard	Standard	Standard	Block Move /Copy
System scan before printout operator Manual	System scan before printout operator Manual	Manual	Manual	Column Move /Delete
Standard	Standard	Standard	Standard	Auto Repagination
Standard	Standard	Standard	Standard	Auto Widow Adjust
Standard	Standard	Standard	Standard	Auto File Sort
Standard	Standard	Standard	Standard	Auto File Select
Standard	Standard	Standard	Standard	Auto Footnote Tie-In Term Dictionary /Glossary
Standard	Standard	None	None	COMMUNICATIONS Availability Format & Speed
Standard (virtually unlimited)	Standard (virtually unlimited)	Standard 2741, 1780, 3275- TTY-compat., 134 5 to 9600 baud	Standard 2741, 2780-, 3275- TTY-compat., 134 5 to 9600 baud Optional	ARITHMETIC CAPABILITY EDP CAPABILITY Multiprogramming Compilers
Optional IBM 2740- 2780- 3780- 3270- TTY-compat. 134 5 to 9600 bps Standard	Optional IBM 2741- 2780- 3780- 3270- TTY-compat. 134 5 to 9600 baud Standard	None	None	Applications Software
Standard BASIC	Standard BASIC	None	None	PERIPHERALS
Forms Mgmt. Sort Sys Security Math Supp. Image Printer, 120, 200 cps, 425 lpm printers, photocomp. paper tape**	Forms Mgmt. Sort Sys Security Math Supp. Image Printer, 120, 200 cps, 425 lpm printers, photocomp. paper tape**	Wordplex /1 & 2, 300- & 600 lpm printers, OCR, RS-232 devices	Wordplex /1 & 2, 300- & 600-lpm line printers, OCR, RS-232 devices	BACKGROUND INFO. First Delivery Date Country of Manufacture Installed Base Estimate PRICING & TERMS Purchase
May 1979 USA 50,000-***	September 1979 USA 50,000-***	July 1979 USA	May 1976 USA 2000 terminals	Rental
\$26,000 to \$30,000****	\$52,000	Varies by amt. of stor- age & no. of terminals	Varies by amt. of stor- age & no. of terminals	Lease
\$1,222 1,410 mo 1 yr**** \$1,196 1,380 mo 2 yr**** Available upon request	\$2,444 /mo (1 year)**** \$2,392 /mo (2 year)**** Available upon request	Various plans avail	Various lease plans avail	Maintenance
\$215 to \$246 /mo ****	\$605 /mo	Varies by configuration	Varies by configuration	Warranty & Support
90 day warranty, on- going support	90 day warranty, on- going support	—	—	REMARKS & OTHER FEATURES
*List Process, Calc. Auto Para No. Table Contents /Index Gen- erator **OCR mag card reader typesetter 48 wide car- riage printer, Archiving Workstation, WISE Mailways, Twin Head Printer, 48K & 64K, WS ***For Wang WP OIS ****Depends on model	*List Process, Calc. Auto Para No. Table Contents /Index Gen- erator **OCR mag card reader typesetter 48 Archiv- ing Workstation, Wide carriage Twin Head printers, 48K & 64K, WS WISE Mailways ***For Wang WP OIS ****Includes maint	*Dist in US by Lanier	*Dist in US by Lanier	



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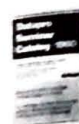
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