NOW... ANY BUSINESS CAN PROFIT FROM
ELECTRONIC DATA COMPUTING...WITH THE NEW

TYPETRONIC®
7816

AUTOMATED DATA COMPUTING SYSTEM

SCM® DATA PROCESSING SYSTEMS
DIVISION OF SCM CORPORATION

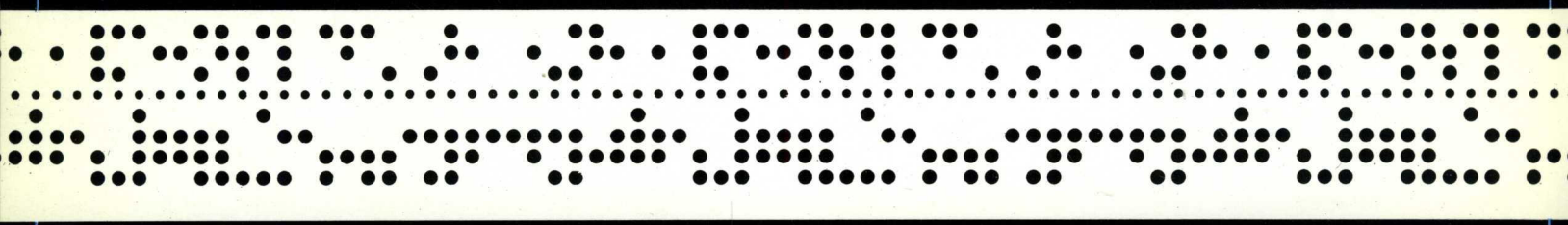
+IXIVA

AUTOMATE YOUR PAPER-WORK—COMPLETELY—AT LOW COST
with this high-speed electronic computer and data handling system.

Until now, the investment in Electronic Data Processing, despite its unquestioned efficiency, simply could not be justified for the smaller business. Capabilities of most EDP systems far exceed the requirements of any but the larger companies, and these capabilities are built into the equipment, hence into its cost. Small computers, though less costly, lack the over-all versatility to handle the diverse paper-work tasks of the average business. They, too, perform more economically in larger companies, where they can be fully utilized for special-purpose work.

Now, even the "small" business can effect dramatic reductions in data handling costs without buying excess capacity. The new SCM TYPETRONIC 7816 Automated Data Computing System provides full automation of business figure work—at low cost. Exclusive design features developed by SCM give the TYPETRONIC 7816 a degree of programming and computing versatility previously found only in systems costing far more. Numerous optional components and accessories further extend its capabilities.

The TYPETRONIC 7816 is fully transistorized for long-term reliability, compactness and low power requirements. Modular design and plug-in components permit the utmost flexibility in physical arrangement.



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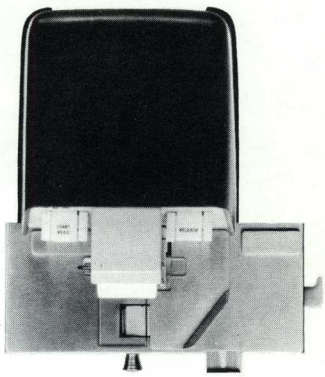
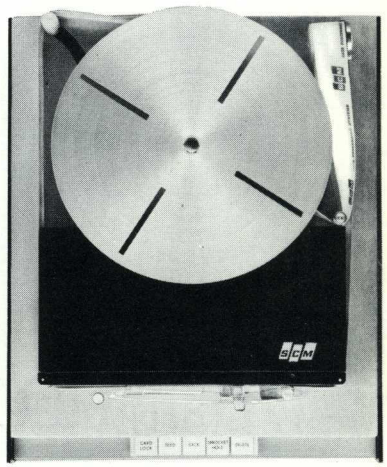
VERSATILITY BY DESIGN

The TYPETRONIC 7816 is a true Electronic Data Processing System. As input, it accepts alphabetic and numeric data entered at the Printer keyboard and coded information from one or more Readers. Arithmetic operations are performed by the Computing Processor, and computed results can be printed, punched or stored. Output media are printed forms and 8-channel punched tape or edge cards. By-product tapes may be used as input to other computers, wire data transmission systems, automatic machine tools and data collection systems.





INPUT/OUTPUT PRINTER

The TYPETRONIC I/O Printer supplies system input through the typewriter keyboard. Alpha-numeric characters and such functions as shifting, tabulating, carriage return, etc., are coded into paper tape or edge cards for subsequent processing within the system or by other equipment. Printout is automatic or manual, in accordance with the program. In automatic mode the I/O Printer operates at a minimum of 100 words per minute. Information may be manually entered at continuous speeds of 20 characters per second with two-character burst speeds up to 30 per second. A "disc interlock" prevents inadvertent depression of two keys at once, yet maintains the "free-keyboard" touch essential for speed typing.

OPTIMATIC READER

The standard SCM TYPETRONIC Optimatic Reader accepts *both* 8-channel paper tape and edge-punched cards. It is a light-sensing code reader capable of speeds up to 30 characters per second (300 words per minute) and can stop at that speed on a single character. Because it is cable-connected to the system, this compact Reader can be placed on the desk area in any convenient relation to the Printer. All Optimatic Readers are equipped with "Start Read" and "Media Release" controls and may be stopped by touching the "Reader Stop" control on the Printer console. Reader #1 may also be started at the I/O Printer console.

TYPETRONIC VERTIPUNCH

This SCM development provides many unusual performance and convenience features. Operating at 30 characters per second, it perforates all forms of punched tape media and can be readily equipped to edge-punch card stock. Pre-punched feed holes in cards are *not* required. Both tape and cards are punched "on edge," a unique method that insures complete ejection and disposal of all chad (confetti). Push-button controls permit tape to be fed, backed up, or codes deleted either at the punch or from console. "Parity check" feature automatically detects an imperfect punch and stops the system until a "Restore" key is operated.

COMPUTING PROCESSOR

This solid-state unit performs three basic functions: arithmetic, memory and control of its input and output. The Processor can compute in a virtually unlimited variety of formats. It can switch from program to program, application to application, with little or no change in "setup." The memory unit is a magnetic storage disc with nine registers and a buffer register. Seven of the registers accumulate automatically when entered. The 7816 can "branch," that is, select an alternate program when the mathematical sign of a register is negative, positive or neither. Data input and output is 30 digits per second. The Processor is housed in a compact modular cabinet.

MASTER CONTROL

The fully transistorized electronic circuits of the Master Control provide the functional logic of the system and activate its various components in accordance with the program. Modern printed-circuit boards combine with solid-state reliability to make the Master Control a thoroughly dependable, yet compact, element of the 7816 system. Completely new, the Master Control unit was engineered by SCM with system versatility and maximum "up time" as paramount design factors.

ONLY TYPETRONIC 7816 HAS ALL THESE FEATURES

PRODUCTIVITY

Paraprocessing—This outstanding feature can increase productivity as much as 40%. Briefly, it refers to the system's ability to read and respond to control codes during the fractions of a second that the Printer carriage is in motion (spacing, tabulating, carriage return). Any code that does not conflict operationally with Printer motion will be acted upon during carriage delay. During a carriage return, for example, it is possible to enter the Processor with digital factors and complete a computation for printout before the carriage has returned to the margin.

Quiet Operation—Compare with other systems for noise-free operation. The TYPETRONIC can be located adjacent to other accounting or communications activities without concern about distracting noise.

PROGRAMMING VERSATILITY

Code Control When this control is "on," no control code will punch even though a punch is "on." In "off" state, control codes will punch if a punch is "on." This feature permits selective punching of control codes in by-product tapes for later operations.

Code Skipping—May be initiated manually or automatically and proceeds at 30 characters per second. "Selective skip," another standard feature, permits selective skipping in response to a switch position.

Auto Print—It is frequently necessary to perpetuate printing codes into output tapes or cards without printing. The required printing modes are provided by two coded system controls: "Auto Print On" and "Auto Print Off." A unique feature is that the system can respond to control codes during high-speed duplication of non-printed information.

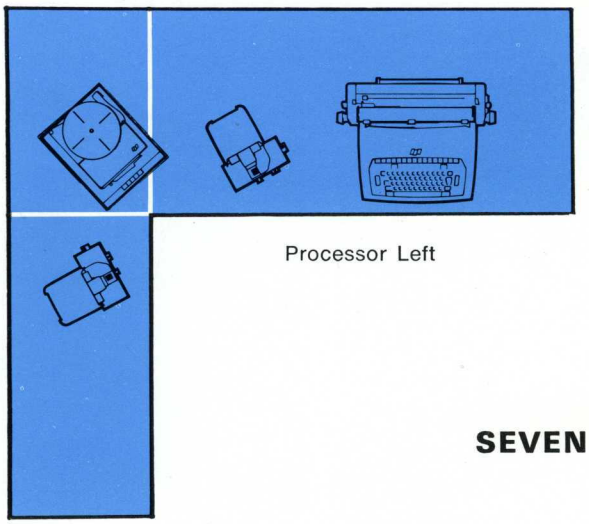
Multimode Field Control—The only field control to use punched tape as the control medium, "Multimode" is simple in design, reliable in operation. Control tapes utilize Printer carriage position to perform three functions—turn on Reader #1; turn off Punch #1; turn off Punch #2—in either or both of two modes. A third mode provides a Reader #1 "on" function or permits a Restore Entry operation when in an entry-to-computer sequence. Another exclusive feature of "Multimode Field Control": No matter how fast the operator "burst-types" across the predetermined carriage position, it is impossible to "beat" the field-control action. This assures unsurpassed operating reliability.

Register Flexibility—One or more registers may be programmed for temporary storage of factors, and they may then be used throughout the program for storing new factors. For example, it is practical to store the reciprocal for "per-dozen" computation, then use the same register for storing an intermediate result, and once again for storing a price until needed. Each of the seven 10-digit accumulating registers may be split, thus providing the equivalent of fourteen registers of individual word length (capacity.)

FLOOR PLAN FLEXIBILITY

These sketches illustrate a few of the numerous arrangements made possible by the modular design of the TYPETRONIC 7816.

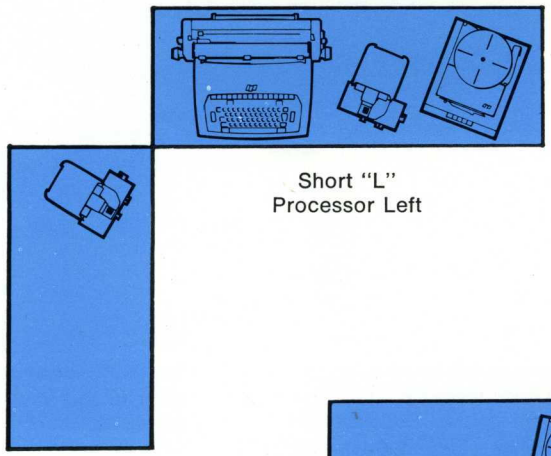
7816 With D Lux



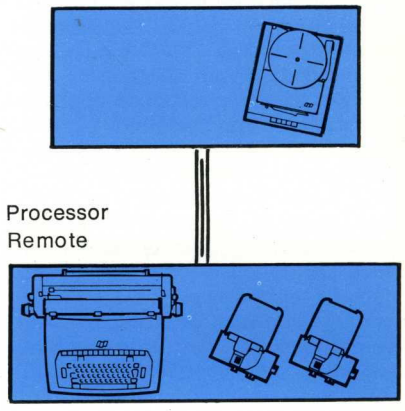
Processor Left

SEVEN TYPICAL

7816 With



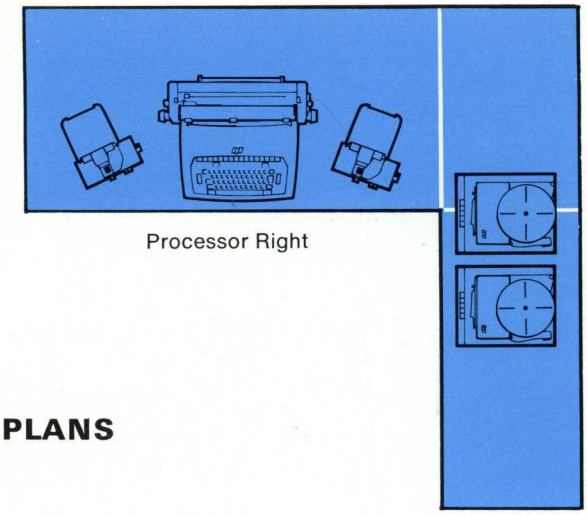
Short "L"
Processor Left



Processor
Remote

NOT

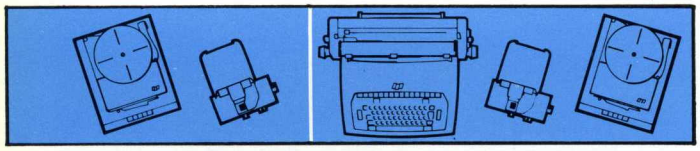
TYPETRONIC Desk



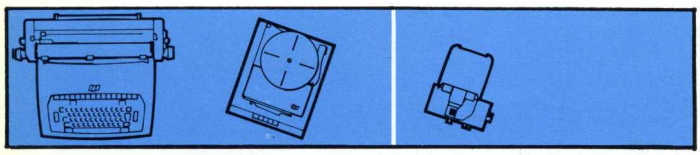
Processor Right

16 FLOOR PLANS

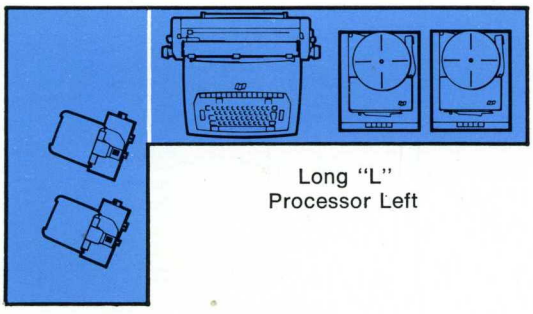
Impact Stand



Extended Processor Left—Operator Center



Extended Processor Right—Operator Left

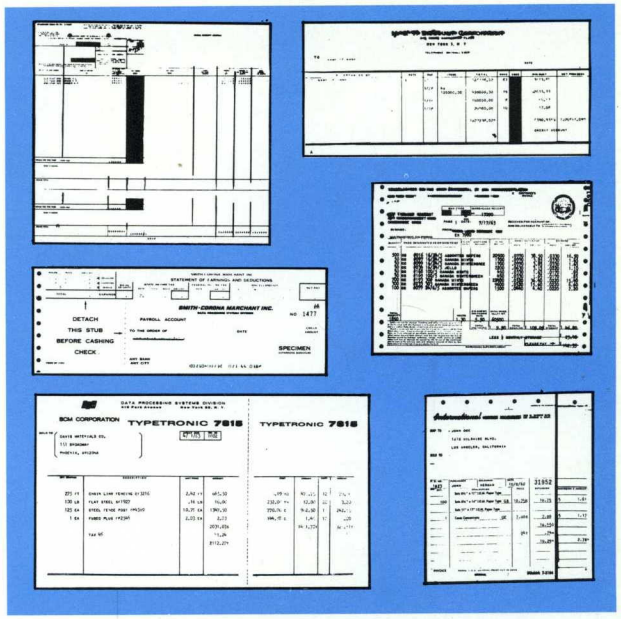


Long "L"
Processor Left

Readers and Punches may be positioned to suit individual requirements.

AREAS OF APPLICATION

Capabilities of the TYPETRONIC 7816 include literally thousands of applications. All typical input/output operations are readily performed by the system. In addition, automatic printing is combined with automatic computation. Just a few of the many potential printing-computing possibilities of the 7816 are outlined here.



Billing—Invoices, statements, ledger posting, sales distribution.

Payroll—Employee earnings records, payroll checks, government reports (including 941-A and W-2).

Accounts Payable—Checks, check registers, distributions.

Distribution—Examples: Sales can be separated into wholesale, retail and government groupings. Commission breakdowns for as many as 14 salesmen or offices can be made.

Formulas—Computed results from pre-established formulas.

Freight Billing—Computation of cubic measures, tonnage, etc., is readily done. "Branching" ability of the 7816 makes it practical to determine minimum and maximum charges and apply the correct factor as determined by a previous result.

Insurance—Premium computation, invoicing, statements.

Finance—Mortgage loan amortization, banker's acceptances, capital equipment depreciation, stock transfers, fund billing.

AND—Eight-channel punched tapes, made as automatic by-products of TYPETRONIC 7816 operations, can be used directly as input to such equipment as data transmission systems, medium- and large-scale computers, punched tape to tabulating card converters, numerical control machines, and data collection devices.

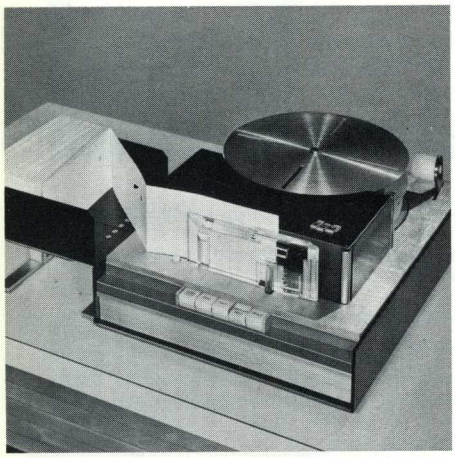
The format freedom permitted by SCM VERSATRONIC programing readily adapts the 7816 system to a host of business forms—including existing forms not specifically designed for the TYPETRONIC 7816.

OPTIONAL COMPONENTS EXTEND TYPETRONIC VERSATILITY

The data handling requirements of business range over a wide spectrum—and so do the built-in and optional features of the TYPETRONIC 7816. Briefly described, here are some of the add-on components which tailor the capabilities of the 7816 to many diverse applications.

SECOND PUNCH OR READER

Either or both a second TYPETRONIC Vertipunch or Optimatic Reader may be added to the system at any time. No modifications are required: plug-in modularity makes this expansion of the 7816 system as simple as installing an ordinary desk calculator.

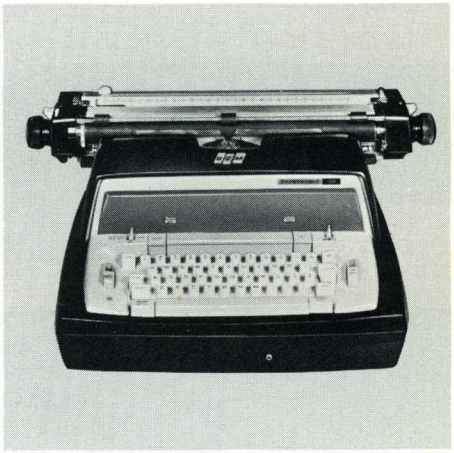


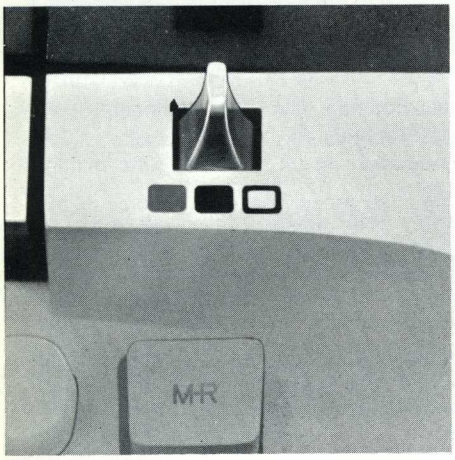
CARDABILITY Left

TYPETRONIC Vertipunches can be supplied with the ability to perforate unit and continuous edge cards. Punch accepts a wide variety of card stocks and punches its own feed holes. Since pre-punching is unnecessary, cards in present use for another purpose (e.g. record and ledger cards) may be punched without transferring written records to new cards.

AUXILIARY PRINTER Right

Similar to the I/O Printer supplied with the 7816 system, but without control panel or input capability, the Auxiliary Printer provides a second and simultaneously printed output, such as a sales-order register, as needed in programming.



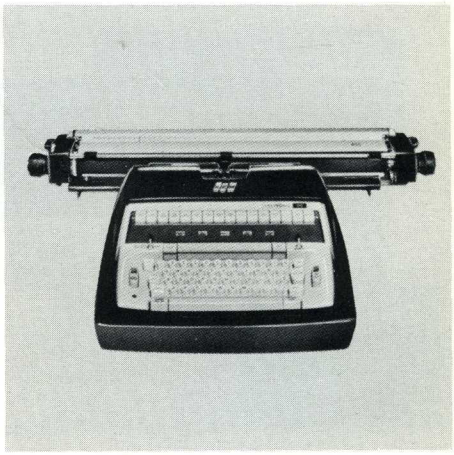


CODED RIBBON SHIFT Left

Permits automatic shifting from black to red (and vice versa) ribbon positions by code command. System control response of Ribbon Shift codes is the same as that of printing codes.

21-INCH CARRIAGE Right

Printers and Auxiliary Printers can be optionally equipped with 21-inch carriage to accommodate wide forms. A variety of line-space, platen and escapement arrangements is available.



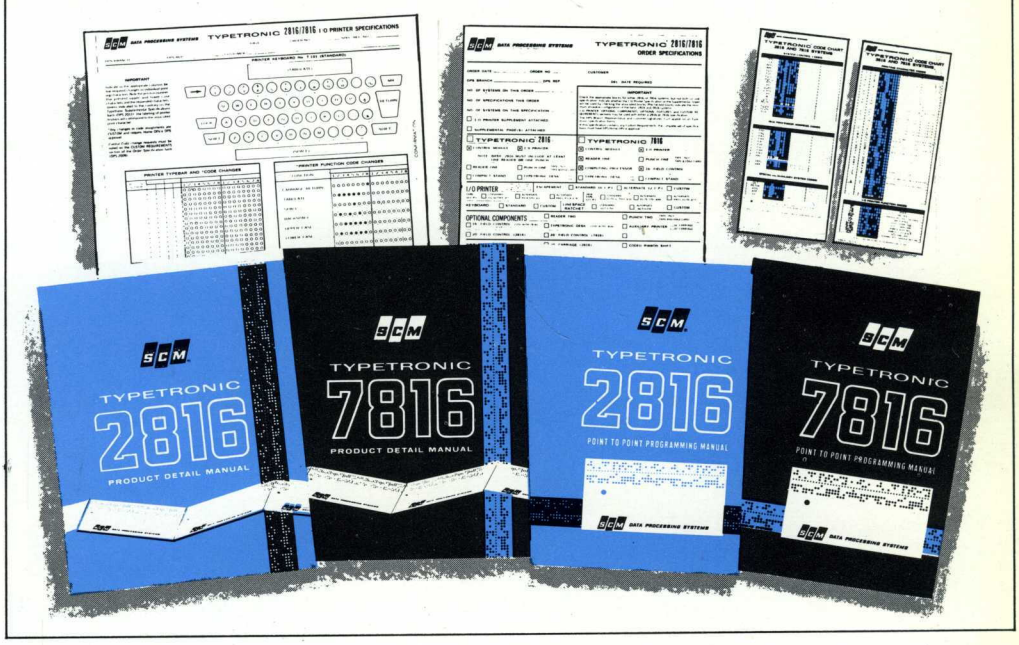
IF YOU'RE NOT READY FOR ELECTRONIC COMPUTING...

SCM's "building-block" concept makes it practical and economical to tailor TYPETRONIC systems to every requirement. If you're not quite ready for electronic computing—or if you have it now—you can still realize the savings and efficiency of data automation.

For applications where computing capability is not required, SCM makes the TYPETRONIC 2816 Automated Data System. Like the 7816, this high-speed automatic typing system utilizes 8-channel punched tape (or edge cards). The 2816 typically consists of an Input/Output Printer, Punch, Reader and Master Control Module. Applications include automatic typing of repetitive data (e.g., personalized letters, price lists) with manual entry of new information (as on sales or purchase orders), by-product typed data (for the preparation of various accounting records), and by-product data for computers or other machines which accept 8-channel punched tape.

EVERY TYPETRONIC INSTALLATION INCLUDES... PROGRAMMING AND OPERATOR TRAINING SERVICES

A TYPETRONIC 7816 system goes to work the moment it is installed. All SCM Data Processing Representatives are trained to analyze customer requirements, to aid in selecting the right system components for the job to be done and to install and program SCM equipment. They are backed by highly experienced Programming Assistants, who are also specialists in punched-tape automation techniques. These SCM people put the system into operation and thoroughly train your operators to utilize its capabilities to the fullest. In addition, SCM supplies a wide variety of programming and product manuals, instruction books for operators, code cards, layout sheets and allied material.



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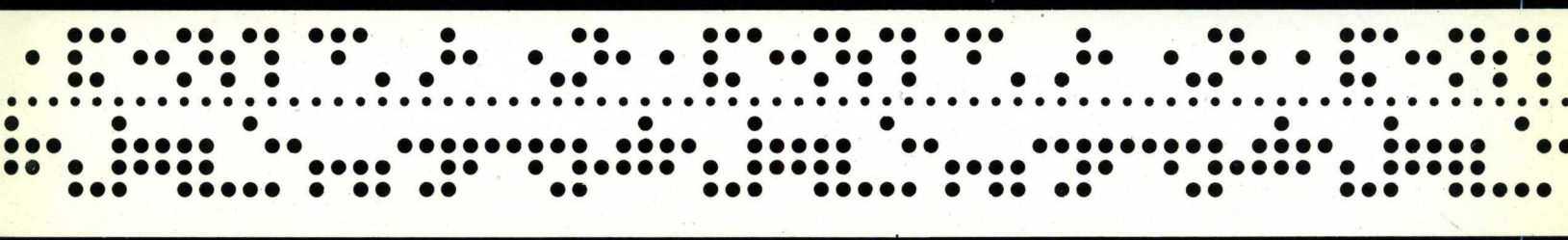
YOU CAN RELY ON SCM EXPERIENCE IN BUSINESS MACHINES

Over half a century of experience in precision manufacturing stands behind the Typetronic 7816 and other SCM business machines. The latter include . . .

- SCM Accounting and Bookkeeping Machines
- Smith-Corona Typewriters
- Marchant Calculators
- SCM Photocopy Machines
- Smith-Corona Adding Machines
- Kleinschmidt Communications Equipment and Systems
- Miller Line of Supplies

SCM SERVICE IS NATIONWIDE

The transistorized electronic design of SCM TYPETRONIC systems affords a high degree of equipment reliability. To insure maximum systems "up-time," SCM Data Processing equipment is backed by skilled, factory-trained service engineers.



SCM offices are strategically placed throughout the nation—and the world. For the location of your nearest office, please write or wire . . .

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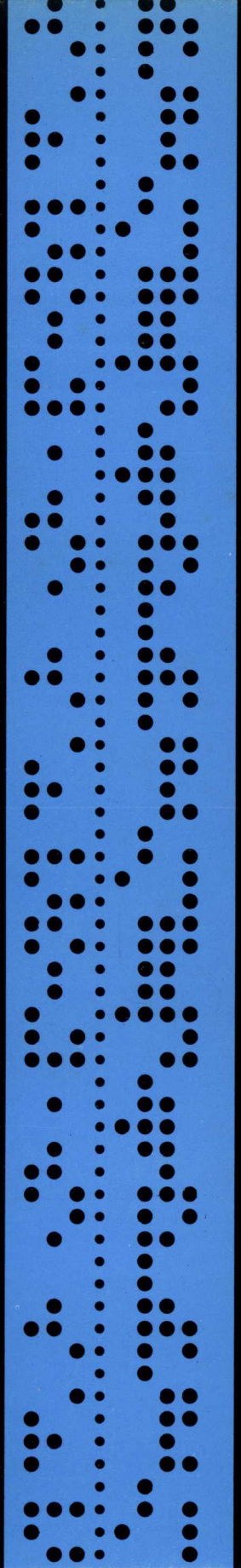

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