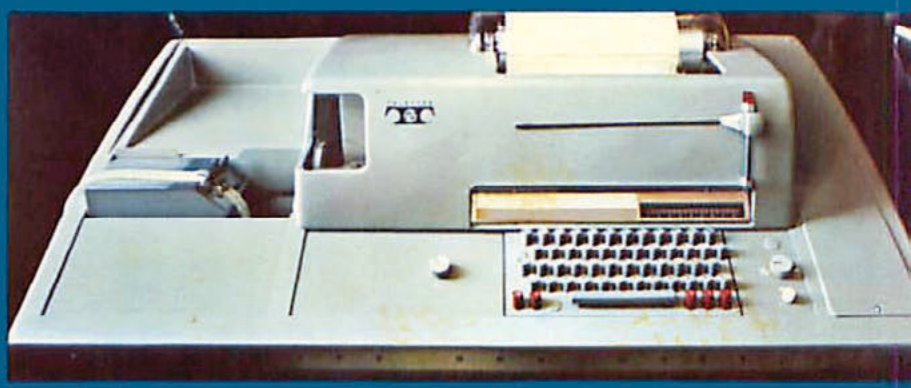
TELETYPE

TELETYPE MODEL 35 EQUIPMENT

for reliable, versatile 8-level data communications



the importance of
DATA COMMUNICATIONS
equipment!

TELETYPE

Today, data processing is accepted as a vital function of efficient business operations. In fact, there hardly exists a company of any size that does not have a data processing system of one kind or another. However, the more successful companies have realized that unless processed data is available in time for decisions it is practically useless.

That's why data communications has become so important and why virtually all new computer systems are including data communications equipment. And you'll find a number of these systems utilizing Teletype equipment because it is the most versatile, reliable, and economical for even the most sophisticated data processing operation.

the many benefits of
TELETYPE MODEL 35 equipment

MODULAR DESIGN

The modern, modular design of Teletype Model 35 heavy-duty equipment assures not only its compatibility with the latest business office decor, but also with most data processing systems. For instance, it uses the U.S.A. Standard Code for Information Interchange. ASCII is the language used by computers and other business machines.

Model 35 machines print on standard roll paper as well as nearly any single or multiple-copy business form. Streamlined cabinets equipped with rubber vibration isolators reduce operating sounds to a minimum.

EASY OPERATION

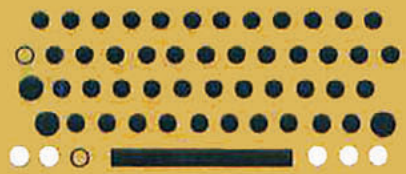
The 4-row keyboard of Model 35 sets is similar to that of an office typewriter, making it easy for all your typists to use. In addition, the keyboard has clearly marked controls and is electrically powered to provide a light, uniform touch for the operator. Printing is always sharp and clear with up to eight carbon copies easily produced.

SPEED AND ECONOMY

Teletype Model 35 equipment operates at 10 characters per second (100 words per minute) or less when required. Even at this speed, maintenance is kept to a minimum with lubrication required only once every six months or after 1500 operating hours, whichever occurs first. Servicing time itself is reduced with easy accessibility to the set's internal parts.

There are many features of Teletype Model 35 equipment that make it an important asset in fulfilling your data communication needs. Many of these, as well as several practical applications within data handling systems, are described on the following pages.

The many business applications of TELETYPE MODEL 35 equipment



The versatility and reliability of Teletype Model 35 sets are among the reasons why they are so proficient in collecting, integrating, forwarding, and disseminating data of all kind. Their data communications capabilities encompass inventory control, production control, order processing, administrative data processing, and telemetry as well as many others. Teletype Model 35 machines are found in use in nearly every business and industry in addition to the government and military as the following examples show.

IMPROVES DECISION-MAKING

A major producer of heating units uses Teletype Model 35 ASR (automatic send-receive) sets to link distributing facilities in New Jersey and Ohio directly with its home office computer center. This company not only has cut as much as four days off its order processing cycle, but also regularly supplies its management with up-to-date reports on company activities.

According to the company's marketing vice president, "this (system) enables better decision-making capabilities, permitting greater flexibility in dealing with customer demands."

SOLVES PROBLEMS IN MINUTES

Teletype Model 35 ASR machines are used by a major automobile manufacturer to put engineers in touch with a real-time computer on a time-sharing basis. This not only simplifies the solution of complex engineering problems, but enables engineers to gain immediate access to information stored in the computer's 2-million word memory.

This has helped cut from weeks to minutes the time required to solve many difficult problems. Also, since Teletype sets are relatively inexpensive and the computer is preprogramed, each engineer is able to use the real-time computer to speed up solutions to a great variety of his problems.

REDUCES MANUFACTURING COSTS

Unlike the mass-production lines of most manufacturing plants, an aircraft factory is more like a number of job shops. Raw material needs, inventory levels, and work schedules may vary between shifts making it difficult to keep control over production operations. Data processing has helped to improve the flow of data, but a lag still exists between the time factory conditions are reported to and acted upon by management.

One large aircraft producer solved the problem by tieing into two real-time computers with Teletype Model 35 KSR (keyboard send-receive) sets in various plant locations. Thus, production data is instantly fed to the computer center. This not only enables plant supervisors to query the computers for job orders, production schedules or other operating information, but provides top management with the latest production and inventory data in order to make more accurate, timely decisions. The system has improved management's control over plant functions, shortened production time, and reduced overall manufacturing costs.

IMPROVES DATA FLOW

A sophisticated real-time data processing system of a large household appliance manufacturer absorbed data so quickly that the benefits derived from the computer's speed were lost because data was not being received fast enough. By installing Teletype Model 35 ASR sets at the firm's 18 district office-warehouses around the nation, the manufacturer assured the direct transmission of data to the computer center instantaneously.

The bulk of this data relates to some 2,000 different appliance models that are shipped from the warehouses to the firm's customers. After receiving this information, the computer prepares invoices and accounts receivable ledgers, reduces warehouse inventories, makes journal entries, and produces a variety of sales reports and analyses.

The district offices continually update the overall sales forecasts by using the Model 35 machines to transmit this data to the computer center. This results in fast production schedule changes to meet requirements and substantially reduce finished goods inventories. In addition, Teletype sets are used to transmit payroll information from the firm's Milwaukee plant to the computer center in Chicago, where the computer calculates the pay and writes the checks.

TELETYPE MODEL 35 ASR SETS automate your data communications

The Teletype Model 35 ASR (automatic send-receive) set provides further versatile data communications through the automatic operation of punched paper tape. Besides a page printer, the ASR set consists of both a paper tape punch and tape reader.

Paper tape provides many advantages for data users. It is easy to handle, accommodates data of any length, and is inexpensive and reliable.

COMBINES DATA

The paper tape punch and tape reader can be used to combine taped data from various sources into one error-free master tape. Then the tape reader can automatically send the data at maximum speed to other Teletype machines or computers.

The Model 35 ASR set is capable of sending data from the tape reader, while receiving information on the page printer. At the same time, the keyboard can be used to punch a completely independent tape.

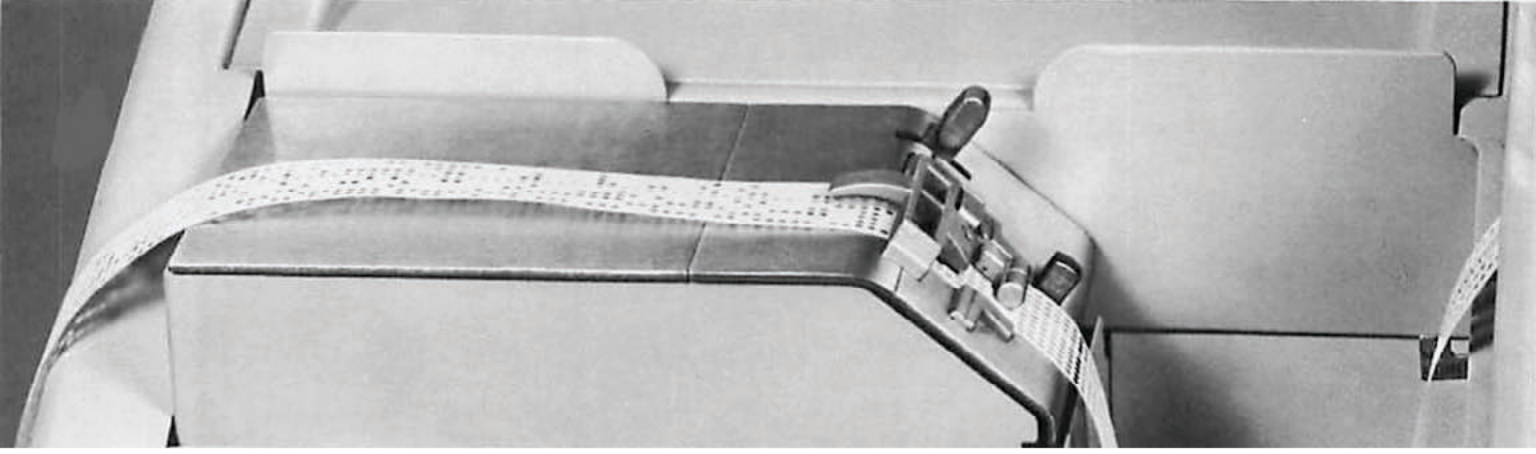
USES ASCII

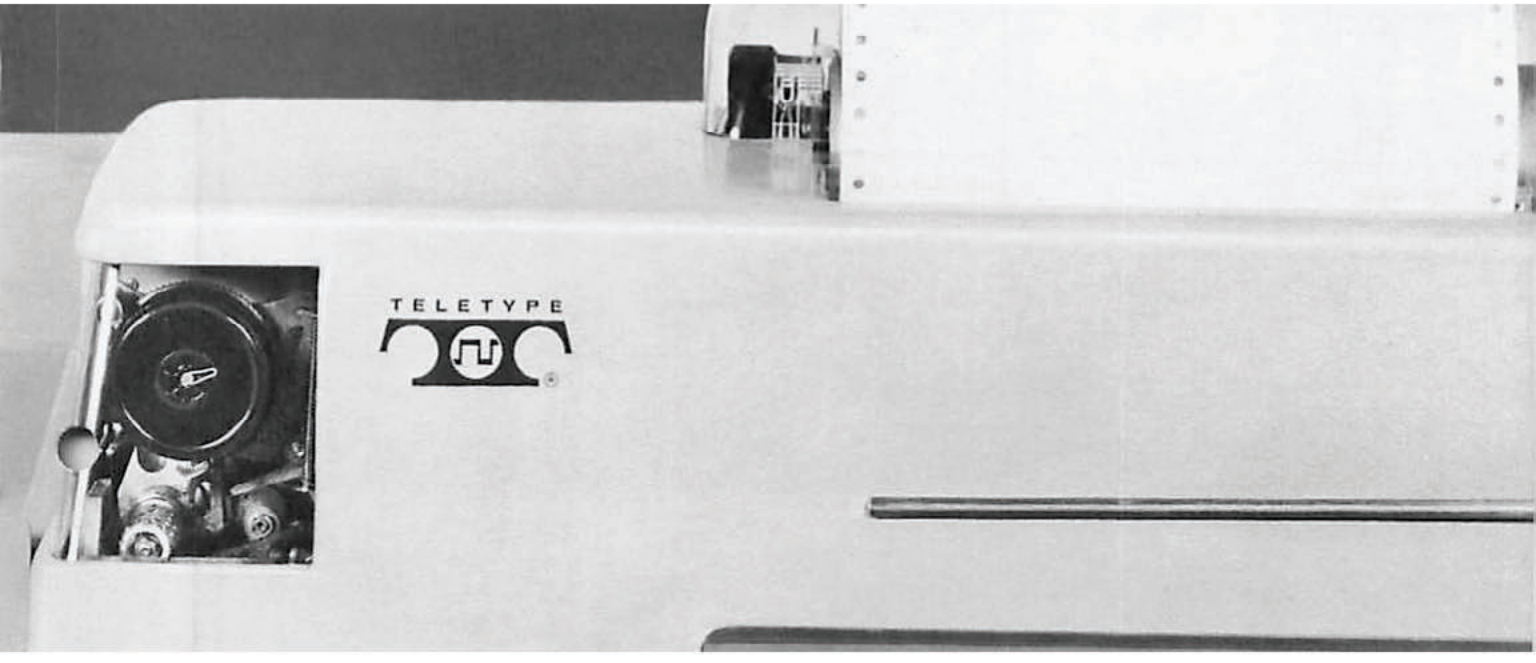
Model 35 equipment uses the U.S.A. Standard Code for Information Interchange (ASCII). ASCII is the code used by many computers and business machines. A parity bit is automatically added to provide "even" vertical parity across the eight levels of each code combination—for error control.

Paper Tape Reader Operates in conjunction with or independently of the other components of the Model 35 ASR set. It senses the data stored in 8-level, 1-inch wide tape and generates corresponding serial signals to send the data. The reader features a hinged tape lid for easy threading, as well as tape-out and taut-tape switches to automatically stop transmission when the tape ends or becomes snagged.

Paper Tape Punch Receives information in the form of serial signals from the set's own reader or keyboard, or from remote equipment. It fully perforates an 8-level, 1-inch wide tape with or without printing. Waste chad from the punch falls into an easily emptied bin. Completed tapes are removed with an adjustable metal tearing edge.

4-Row Keyboard Any typist can easily learn to use the 4-row keyboard of the Model 35 ASR and KSR sets since it is similar to that of a regular office typewriter. In addition, there is no need to shift between letters and numbers, which helps reduce the chances of errors.

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ESC
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SHIFT
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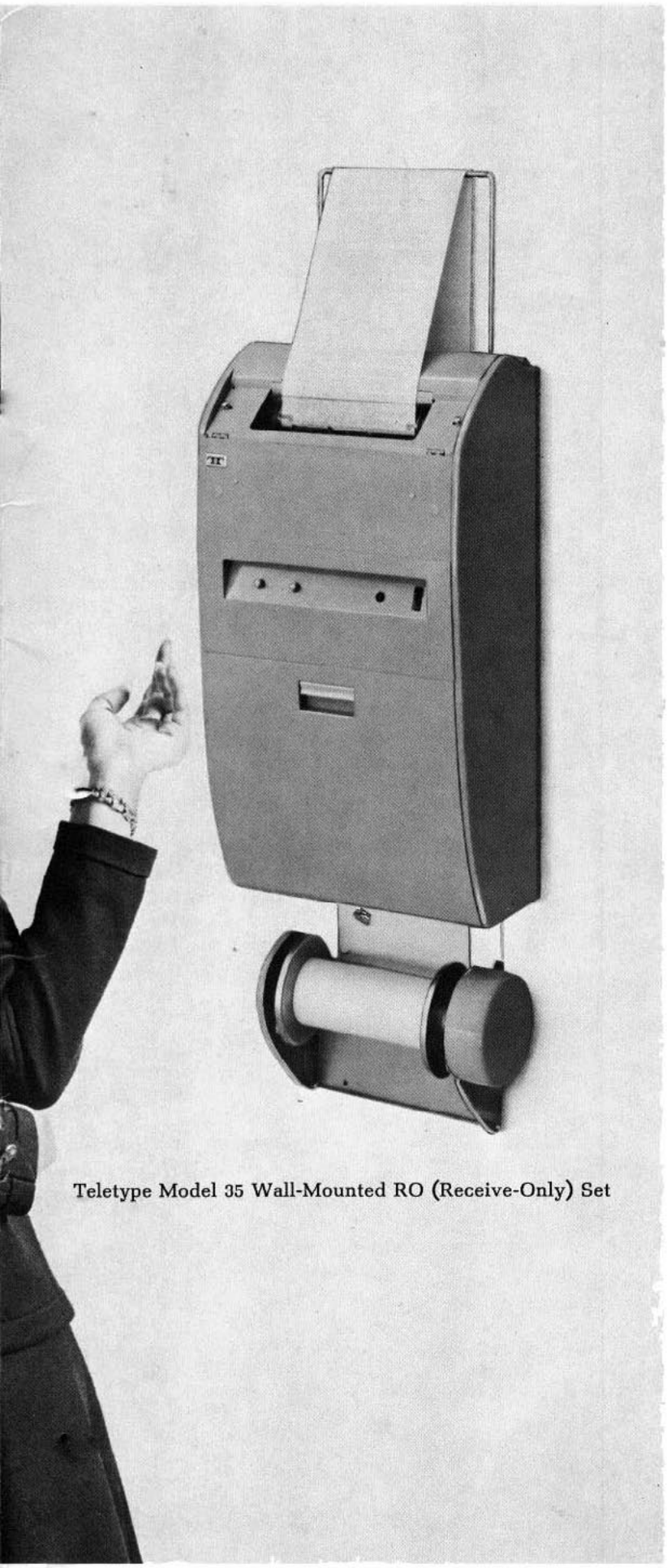
LOC
LF
LOC
LF

TELETYPE MODEL 35 PAGE PRINTERS

Teletype Model 35 KSR (Keyboard Send-Receive) Set



Teletype Model 35 Wall-Mounted RO (Receive-Only) Set

A UNIT FOR EVERY OFFICE

Besides the floor consoles, Teletype Model 35 page printers are available in both table model and wall-mounted sets. The table model fits easily on any standard desk top and can be used for both mobile and stationary applications.

The wall-mounted page printer is only 16½ in. wide and does not require any floor space. Where space is at a premium, these units assure you of all the basic communication advantages of the console page printers but in far less space.

OPTIONAL FEATURES

Versatility has been the key word in describing Teletype Model 35 equipment. Yet, there are many optional features available that provide even more versatility to simplify and improve your data communications. Model 35 sets can be furnished with horizontal and vertical tabulators, different styles and sizes of type, a variety of platen widths, automatic carriage return-line feed, and many others including features that add to the automatic operation of Model 35 equipment. A few of these are listed below.

Automatic Answer-Back An answer-back drum on Model 35 equipment is triggered by a remote Teletype machine so the local unattended station automatically returns its identification call letters (up to 20 characters) to the sending station.

Automatic Reader Control Allows taped data to be transmitted automatically by the reader of an unattended Model 35 ASR set when called in by a remote Teletype machine.

Automatic Punch Control Allows data to be transmitted to the reperforator of an unattended set when called in by a remote Teletype machine.

Automatic Printer Control Allows printed data to be transmitted to the printer of an unattended set when called in by a remote Teletype machine. When these last three features are used on the same set, you can separate the tape punch, tape reader, and printer operations, enabling you to tape data without printing page copy or print copy without punching a duplicate tape.

Automatic Form Feed-Out One key stroke enables you to advance a business form, bringing the next one to the starting position automatically.

FOR INFORMATION ABOUT:

LEASED SERVICES featuring Teletype Model 35 equipment, consult your local telephone or telegraph company.

PURCHASING (or general information) about this or any Teletype equipment, contact our Sales Organization at the general offices address listed on the back cover.

When ordering input-output terminals for your DATA PROCESSING SYSTEM, be sure to specify Teletype equipment—your vital communications link.

TECHNICAL INFORMATION

SPEED	Characters Per Second	6	6.6	7.5	10
	Words Per Minute	60	66	75	100
	Bauds	66.0	74.0	82.5	110
CODE	8-level, 11 unit (ASCII)				
TAPE	8-level, 1-inch wide				
PRINTER	Friction feed platen for 8½ in. single or multiple-ply paper or pin feed platen for standard size forms from 2½ in. to 12 in. length, and up to 9½ in. width Horizontal spacing 10 characters per inch Vertical spacing single or double space (3 or 6 lines per inch)				
KEYBOARD	4-row, 8-level. Similar to typewriter				
POWER REQUIREMENTS	115 V AC ± 10%, 60 Hz ± .75 Hz, single phase synchronous motor 50 Hz motor also available				
MAINTENANCE INTERVAL	Once every six months or after 1500 operating hours, whichever occurs first				

DIMENSIONS AND WEIGHT

Unit	Height	Width	Depth	Approx. Weight
RO	38½ in.	20 in.	24 in.	130 lbs.
KSR	38½ in.	20 in.	24 in.	136 lbs.
ASR	38½ in.	40 in.	24 in.	225 lbs.

TELETYPE

Teletype Model 35 KSR (keyboard send-receive) sets are used for sending and receiving data in page copy form over any distance. Model 35 RO (receive-only) sets are used where only the reception of data is necessary.

These machines have a friction feed platen for handling single or multiple-ply paper. They can be furnished with a pin feed platen for standard size forms from 2½ in. to 12 in. length, and up to 9½ in. width.

STUNT BOX

All Teletype Model 35 sets are equipped with an automatic switching device—called a stunt box—that performs remote control functions. It will handle anything that can be electrically controlled—ranging from performing such non-typing functions as automatic carriage return and horizontal tabulation to activating remote apparatus, including tape punches and readers, computers, and other business machines.

Remote stations can be selectively called through the stunt box. Thus, one Model 35 set can call all others simultaneously, individually, or in predetermined groups.

OTHER FEATURES

There are many standard features that add to the efficient operation of Model 35 equipment, such as: a clear plastic bubble on top of the upper cover for viewing the paper supply and observing the operation of the typing unit; an end-of-line indicator that glows red as the type box nears the end of the line; a low paper alarm that operates when the paper supply is nearly exhausted; and a copyholder and line guide to hold short messages the typist is sending.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machines that make data move

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