

# model 43 buffered tabletop teleprinters

## tractor feed—pin feed—friction feed

### Much More For Your Investment

The Teletype model 43 BSR is a microprocessor-controlled high performance teleprinter engineered to fulfill your data communications needs for the 80's—and perhaps beyond. You'll find its simple, uncluttered design and reliable LSI/MOS circuitry results in greater throughput for your investment and lower cost of ownership.

### On-The-Job Adaptability

What's more, the 43 BSR series comes with an impressive array of standard features and options for on-the-job adaptability. You can use these versatile performers for switched network time sharing, message switching, data entry and data base inquiry applications.

### Reduces Transmission Costs

One of the ways the 43 is producing significant savings to industry is by reducing transmission costs and computer connect time. Information can be prepared off-line, edited for accuracy and, when it is convenient, sent on-line at high speed.

### Quiet—Lightweight—Compact

This attractively styled teleprinter series is truly in tune with communications needs of modern business. So economical to own, operate and maintain you can afford to locate one in the office, factory, or laboratory—wherever your business needs dictate. A 43 requires about as much space as an electric typewriter, and weighs less.



### Microprocessor Controlled Features

The microprocessor controlled 43 BSR provides 16,000 (16K) characters of solid-state internal buffer storage for sending, receiving and editing. Included are 30 options that can be activated directly from the keyboard, permitting the 43 to be quickly tailored to your system needs.

### Off-Line Data Preparation

Messages can be keyboarded off-line and stored in the buffer for later on-line transmission at maximum terminal speed—reduces transmission costs and computer connect time.

### Simple Text Editing

Editing capabilities permit data to be located by string searching, quickly retrieved and changed by character deletion and insertion—errors are caught and corrected off-line before they can enter your system.

### Automatic Send/Receive

This capability permits messages to be sent and received simultaneously on-line via the buffer while the operator prepares messages off-line—optimizes operator performance and maximizes system throughput.

### Unattended Operation

Automatic answer capability permits messages to be sent and received while the terminal is unattended—message traffic can be handled around the clock, when it is most convenient, or when line rates are lowest.

### True 30 CPS Throughput

Our impact printer provides true 30 character per second throughput and prints the full ASCII 94 character set—provides crisp, exceptionally easy to read multicopy print out.

### Choice Of Three Printers

**Tractor feed:** For preparing invoices, purchase orders, shipping documents, etc., the adjustable tractor feed model is an excellent choice. It can accept forms ranging from 3- to 12-inches wide, up to 14-inches long. Included are controls for horizontal and vertical alignment of characters on pre-printed forms.

**Pin feed:** Ideal for wide format computer reports and statistical information, the pin feed prints up to a 132 character line on 12-inch wide, 8½-inch long fanfold paper. When the ½-inch serrated feed margins are removed the paper converts to letter size that can easily be filed or duplicated on standard office equipment.

**Friction feed:** This version is suitable for message traffic and timesharing applications where text is of indeterminate length and format. Prints up to an 80-character line on 8½-inch wide roll paper 400 feet long.

### LSI Circuitry For Reliability

For the owner of a model 43 BSR terminal its initial low price is only the beginning of an outstanding value. Dependable LSI circuitry is used extensively for maximum reliability.

### Engineered For Maintainability

Powerful built-in diagnostic routines can check and isolate a failure to a component level. And modular design permits component change incredibly fast. So you can count on getting the most uptime operation from your model 43 BSR.

### Service And Support

Teletype Corporation products are backed by our nationwide service organization which provides fast field response time.

- Reduces transmission costs
- Reduces computer connect time
- Improves system efficiency
- Saves space with compact design.

## FEATURES

### General

- **Transmission**

Mode: Full duplex over point-to-point switched-network or private-line facilities

Technique: Asynchronous

Speeds: 110, 200, 300, 600, 1200 or 1800 bps

Code: 8 level, ASCII

- **Communications Interface:** EIA-RS232C (requires full duplex modem) 103, 108, 202T or 212 type data sets

- **Communication Function Controls:** Conversational or batch

- **Automatic answer:** Responds to incoming call while unattended

- **Answer back:** Up to 20 selectable characters (automatic operation optional)

- **Diagnostics:** Self-test capabilities are provided for each major component

### Printer

- **Print rate:** 47 characters per second provides true 30-character-per-second throughput including carriage return

- **Print line:**

Tractor feed: 100 char/line at 10 char/inch (can be modified for 132 char/line, 13 char/inch)

Pin feed: 132 char/line at 13 char/inch

Friction feed: 80 char/line at 10 char/inch

- **Vertical spacing:** 6 lines/inch

- **Line feed:** Single or double

- **Tractor feed:** 3 to 12 inches wide and up to 22 inches long

- **Pin feed:** 12 inches wide and up to 22 inches long

- **Friction feed:** 8½-inch wide 400-ft. roll

- **Copies:**

Tractor feed: One original and up to three copies are provided (depending upon paper/carbon weight)

Pin feed: Same as above

Friction feed: One original

- **Printing technique:** 7 X 9 dot matrix

- **Character set:** 128 ASCII plus parity error symbol

- **Horizontal and vertical tabs:** Tab set and clear, keyboard and on-line selectable

- **Top-of-form (form feed):** Any form length up to 14 inches, keyboard and on-line selectable

- **Margins:** Left and right set and clear, keyboard and on-line selectable



Pin feed model 43 BSR

- **Signal bell:** Activated before and at right margin during data entry and on receipt of BEL

- **Alarm:** Paper out (tractor and pin feed) low paper (friction feed)

- **Ribbon cartridge:** Three-million characters (nominal)—easy replacement

### Keyboard

- **Arrangement:** Typewriter-like with numeric pad; generates all 128 ASCII code combinations; includes N-key rollover feature

### Buffer

- **Buffer size:** 16K (16,000) characters

- **Send Buffer:** Dynamically divided into edit buffer, to-be-sent buffer, and already-sent buffer

- **Receive Buffer:** Accepts all data from line, holds until printer becomes available

- **Six buffer controls:** Buffer Enter, String Enter, Insert, Send Ready, Message Clear and Receive Message Waiting

### Electrical

- **Requirements:** 115 VAC ±10% 50/60 Hz

- **Power consumption:** 75 watts

- **Heat generation:** 255 BTU/hour

### Physical

- **Dimensions:**

Height 5½ in. (13.97 cm)

Width 20 in. (50.8 cm)

Depth 21 in. (53.3 cm)

- **Weight:** 31 lbs. (14.09 kg) (approx.)

For further information on any Teletype Corporation product lines, or for the location of your nearest sales or product service representative, please contact:

Sales Headquarters  
5555 Touhy Avenue  
Skokie, Illinois 60077  
Telephone 312/982-2000

Product Service Headquarters  
1325 Pratt Boulevard  
Elk Grove Village, IL 60007  
Call Toll Free 800/323-4226 (In Illinois 800/942-4192)  
In Canada, call 416/745-9474

## TELETYPE CORPORATION

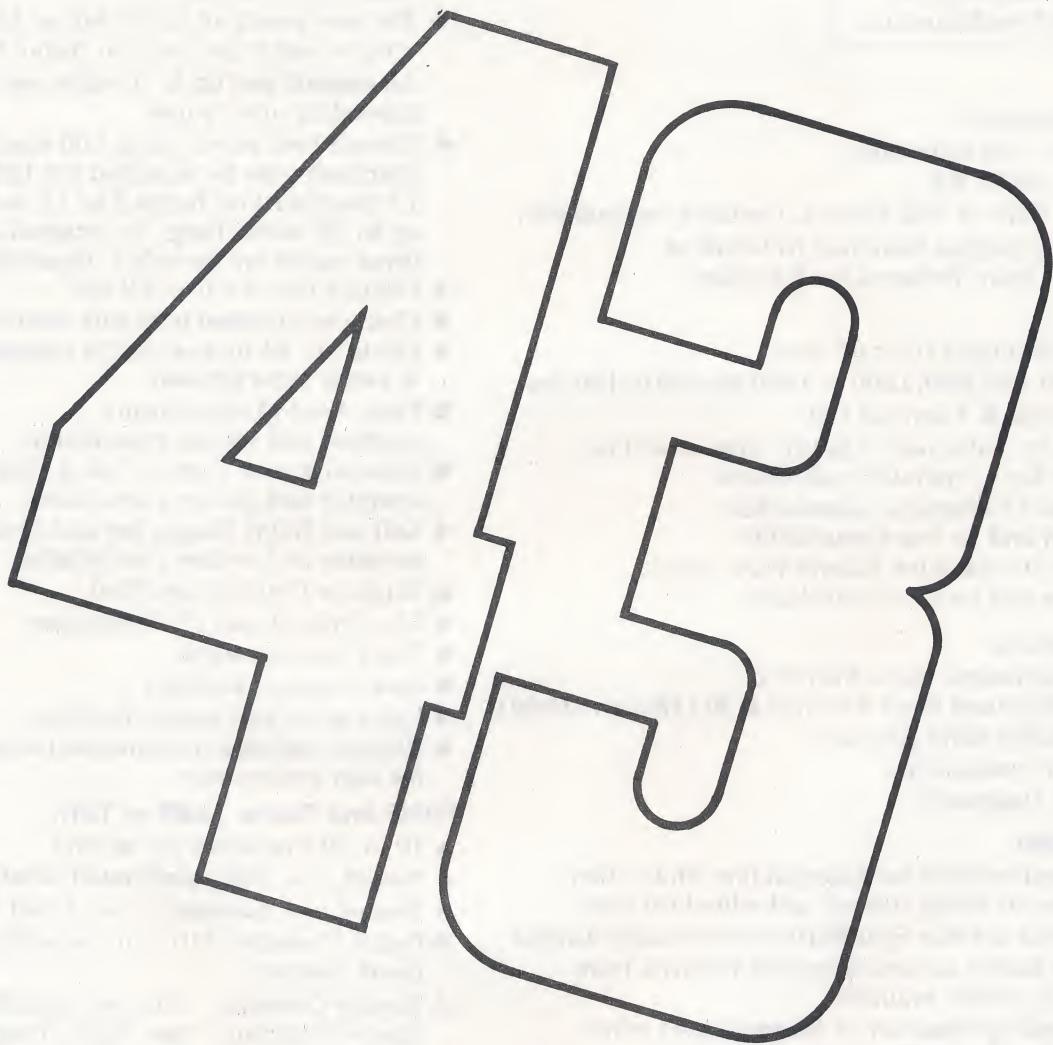
GENERAL OFFICES: 5555 Touhy Avenue, Skokie, Illinois 60077 Telephone: (312) 982-2000—TWX: 910-223-3611  
and TELEX: 25-4051 (both have 24 hour automatic answering service)





**Teletype Corporation**

**Model 43**



**Model 43 Terminals**

**Features & Prices**

**JANUARY 1, 1981**

## STANDARD FEATURES

- All configurations
- ▲ Basic configurations
- Buffered configurations

### General

#### Communications

- Method: Asynchronous
- Code: ASCII '68
- Mode: Half- or Full-Duplex, operator controllable; over Full-Duplex Switched-Network or Point-to-Point Private-Line Facilities

#### Speed:

- ▲ 110 or 300 bps (10 or 30 cps)
- 110, 200, 300, 600, 1200 or 1800 bps (10 to 180 cps)

#### Call Response & Terminal I.D.:

- Manual or Automatic-Answer, with or without Answer-Back, operator controllable
- ▲ Optional 31-character Answer-Back, operator and on-line controllable
- Built-in 20-character Answer-Back option, operator and on-line controllable

#### Configurations:

- ▲ ASR (Automatic Send-Receive), KSR (Keyboard Send-Receive) & RO (Receive-Only)
- BSR (Buffer Send-Receive)
- Modular components
- Built-In Diagnostics

### Buffer (BSR)

- Sends and receives messages on-line while other messages are being entered and edited off-line
- Edit, Send and Was-Sent Buffers dynamically divided
- Receive Buffer accumulates data received from line until printer available
- Stop-sending character or Interrupt sent when data in Receive Buffer approaches full
- Edit Buffer permits any text to be found, by string searching for up to 16-characters, and easily corrected by character replacement, deletion or insertion

### Keyboard (not RO)

- Typewriter-like keyboard generates all 128 ASCII code combinations.
- Back Space, operator and on-line controllable
- N-Key Rollover: 8-character burst buffer.
- Caps Lock, Repeat, Return, Line Feed, Shift and Control keys.
- External Numeric Pad

### Printer

- Friction feed prints up to 72 or 80 char/line at 10 char/inch and 6 line/inch on standard 8-1/2 inch wide 400 ft roll-paper.
- Pin feed prints up to 72, 80, or 132 char/line at 13 char/in and 6 line/inch on forms 12 inches wide. An original and up to 3 copies are provided depending upon paper
- Tractor feed prints up to 100 char/line at 10 char/inch (can be modified for 132 char/line, 13 char/inch) on forms 3 to 12 inches wide and up to 22 inches long. An original and up to three copies are provided depending on paper
- Printing rate is a true 30 cps
- Characters formed by 9-wire matrix impact print head
- Prints full 94 up-low ASCII character set & parity error symbol
- Form Feed (Top-of-form), operator and on-line controllable.
- Horizontal and Vertical Tab & Tab Set and Clear, operator and on-line controllable
- Left and Right Margin Set and Clear, operator and on-line controllable
- Single or Double Line Feed
- Line feeds at rate of 30 lines/sec
- Paper low/out alarm
- Last character visibility
- Paper guide and supply facilities
- Ribbon cartridge (continuous inking) for easy replacement

### Punch and Reader (ASR or TSR)

- ▲ 10 or 30 characters per second
- ▲ 8-level, 1 in. fully perforated oiled paper tape
- ▲ Manual and Automatic Punch and Reader Controls
- ▲ Punch Controls: Off, On, Auto/Start, Back-space, Blank feedout
- ▲ Reader Controls: Off, On, Auto/Start, Single Step/Skip; Tape Tight, Tangled, or Out
- ▲ Motor Control with motor start buffer
- ▲ 1000 ft Paper Tape supply
- ▲ Chad Box

### Electrical & Physical Facts

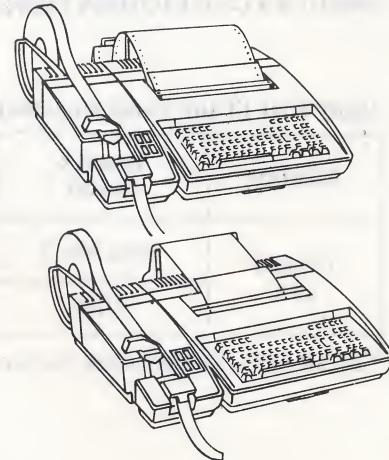
- Input Voltage: 115 VAC @ 50/60 Hz.
- Environmental Requirements:
  - Temperature — Operating +32 to 110° F
  - Relative Humidity — 5% to 95% (non-condensing)

### Dimensions & Weight (approx.):

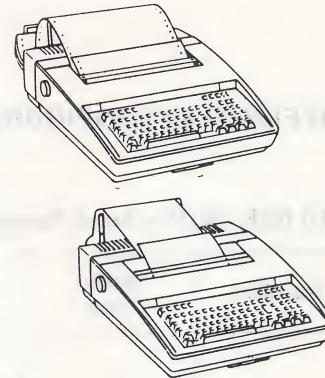
	Height	Width	Depth	Weight
▲ ASR	10 in.	27 in.	28 in.	52 lbs.
▲ KSR	6 in.	20 in.	27 in.	32 lbs.
▲ RO	6 in.	20 in.	27 in.	30 lbs.
■ BSR	6 in.	20 in.	27 in.	32 lbs.
▲ TSR	10 in.	8 in.	28 in.	20 lbs.
● add 2"	to height for friction feed printer			
■ add 25"	to height for pedestal-based BSR			

**BASIC 43 CONFIGURATIONS****4330 ASR (Automatic Send-Receive)**

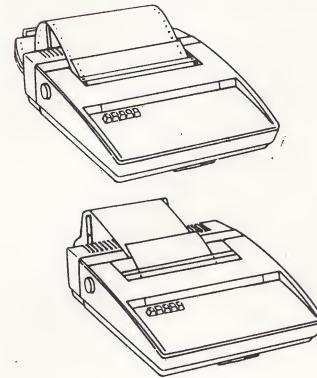
Interface	Printer	Punch & Reader	Catalog Number	List Price
EIA-RS232* or DC-20 to 60ma	Pin Feed	Auto/Man'l	4330-2BCA	\$2982.00
		Auto	4330-2BDA	2982.00
	Fric. Feed	Auto/Man'l	4330-2ACA	3017.00
		Auto	4330-2ADA	3017.00

**4320 KSR (Keyboard Send-Receive)**

Interface	Printer	Catalog Number	List Price
TTL-Serial	Pin Feed	4320AAA	\$1442.00
	Fric. Feed	4320AAE	1477.00
103-type Built-In Modem	Pin Feed	4320AAB	1875.00
	Fric. Feed	4320AAF	1910.00
EIA-RS232* or DC-20 to 60ma	Pin Feed	4320AAK	1558.00
	Fric. Feed	4320AAL	1593.00
Dual (Line + Aux.) each EIA* or DC	Pin Feed	4320AAH	1612.00
	Fric. Feed	4320AAJ	1647.00

**4310 RO (Receive-Only)**

Interface	Printer	Catalog Number	List Price
TTL-Serial	Pin Feed	4310AAA	\$1272.00
	Fric. Feed	4310AAE	1307.00
103-type Built-In Modem	Pin Feed	4310AAB	1705.00
	Fric. Feed	4310AAF	1740.00
EIA-RS232* or DC-20 to 60ma	Pin Feed	4310AAG	1388.00
	Fric. Feed	4310AAH	1423.00

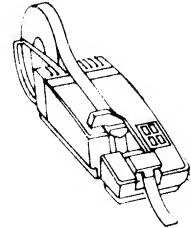


\*Compatible with 103, 108-type data sets.

## BASIC 43 CONFIGURATIONS (Cont'd)

### 4350 TSR (Tape Send Receive)<sup>†</sup>

Interface	Punch & Reader	Catalog Number	List Price
Limited EIA	Auto/Man'l	4350AAA	\$1330.00
	Auto	4350AAC	1330.00



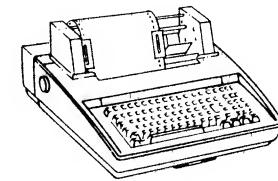
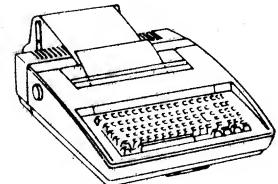
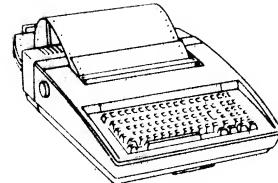
<sup>†</sup>A TSR plus a 430569 cable permits a dual interface KSR to be converted to an ASR.

## BUFFERED 43 CONFIGURATIONS

### 4340 BSR (Buffer Send-Receive)

Interface	Buffer Size	Printer	Catalog Number	List Price
EIA-RS232*	16K	Pin Feed	4340BAB	\$2765.00
		Fric. Feed	4340BAD	2802.00
		Tractor Feed	4340BAJ	2907.00

\*Compatible with 103, 108, 202T & 212-type data sets.



Prices and specifications are subject to change without notice.

## ACCESSORIES & OPTIONS

### KSR/RO Pedestal 430311 \$142.00

Adds 25-in to terminal height & 22 lbs to weight

### AC Distribution Strip 430911 \$34.30

Provides 6 switch-controlled  
AC outlets from single 6-ft power cord

### ASR Pedestal 430350 \$217.00

Includes AC power distribution panel and large chad  
box to replace smaller one supplied with ASR. Adds  
25-in to terminal height & 24 lbs to weight

### 13 to 10 char/in Conversion

430285 Belt \$2.55

430319 Pulley \$1.55

430284 Scale \$1.05

### KSR to RO Conversion

43K001AAA Keystrip \$128.00

430251 Plate \$3.35

430252 Plate \$7.30

117608 Speed Nut \$0.02, order 12

### ASR/KSR/RO 31-character Programmable

#### Answer-Back 430900 \$176.00

Operator, on-line & auto-answer controllable.  
Includes unprogrammed PROM, available  
programmed from nearest Product Service  
Center for \$5 extra.

### Copyholder 430310 \$50.00

Holds copy above print-out exit.

Adds 12-in to terminal height

### Interface Cables

#### EIA (Receptacle to Plug)

408065 ( 7 ft) \$55.00 408067 (25 ft) \$61.30

408066 (12 ft) \$43.90 408068 (50 ft) \$93.90

### 103 Built-In Modem to Modular Phone

430581 ( 7 ft) \$4.05

430582 (14 ft) \$5.35

430583 (25 ft) \$8.00

### TSR to Dual Interface KSR 430569 \$40.00

Spare Print Ribbon 433035 \$5.60

Paper Winder 430400 \$322.00

Winds friction fed paper as it comes from the printer.

## DOCUMENTATION

### Technical References:

ASR/KSR/RO \$ 0.50

BSR 0.50

Pocket Version 0.30

### Installation & Routine Service

KSR 368 \$2.40

RO 373 2.50

### Other:

Registration Instructions  
KSR with BIM 407 \$0.20

### Installation, Service & Routine Repair

KSR/RO 369 \$5.90

Circuit Diagrams  
KSR 385 \$1.10

### Complete Service & Repair

KSR/RO 391 \$15.00

Wiring Diagram Package  
KSR/RO 493 \$8.25

### Manuals:

How to Operate

KSR 367 \$1.90

BSR 386 1.00

RO 372 1.90

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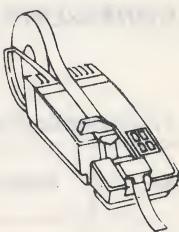
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and TELEX: 25-4051 (both have 24 hour automatic answering service)

## BASIC 43 CONFIGURATIONS (Cont'd)

### 4350 TSR (Tape Send Receive)†

Interface	Punch & Reader	Catalog Number	List Price
Limited EIA	Auto/Man'l	4350AAA	\$1330.00
	Auto	4350AAC	1330.00



†A TSR plus a 430569 cable permits a dual interface KSR to be converted to an ASR.

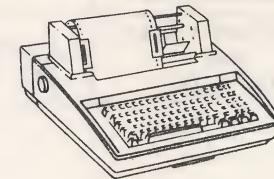
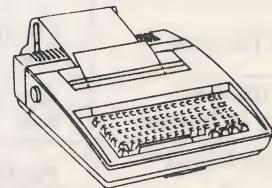
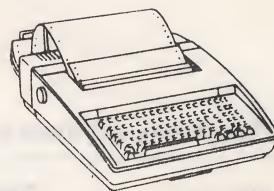
## BUFFERED 43 CONFIGURATIONS

### For Switched-Network or Point-to-Point Private-Line Applications

#### 4340 BSR (Buffer Send-Receive)

Interface	Buffer Size	Printer	Catalog Number	List Price
EIA-RS232*	16K	Pin Feed	4340BAB	\$2533.00
		Fric. Feed	4340BAD	2568.00
		Tractor Feed	4340BAJ	2627.00

\*Compatible with 103, 108, 202T & 212-type data sets.

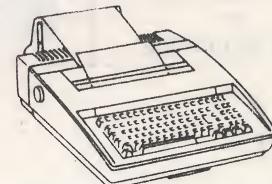


### For Multi-Point Private-Line Applications

#### 4340 BSR (Buffer Send-Receive)

Interface	Buffer Size	Printer	Catalog Number	List Price
EIA-RS232*	16K	Pin Feed	4340BBB	\$2662.00
		Fric. Feed	4340BBD	2697.00

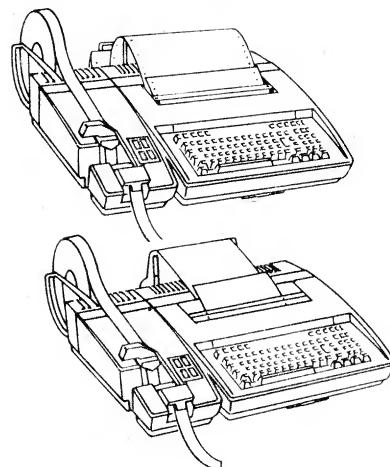
\*Compatible with 108, 202T & 201C-type data sets.



## BASIC 43 CONFIGURATIONS

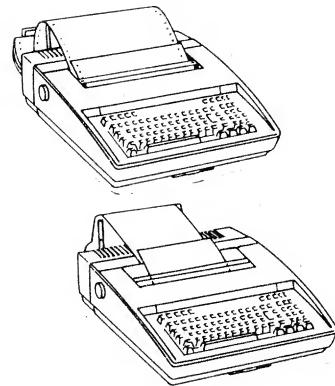
### 4330 ASR (Automatic Send-Receive)

Interface	Printer	Punch & Reader	Catalog Number	List Price
EIA-RS232* or DC-20 to 60ma	Pin Feed	Auto/Man'l	4330-2BCA	\$2982.00
		Auto	4330-2BDA	2982.00
	Fric. Feed	Auto/Man'l	4330-2ACA	3017.00
		Auto	4330-2ADA	3017.00



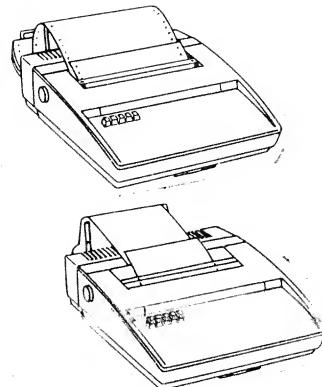
### 4320 KSR (Keyboard Send-Receive)

Interface	Printer	Catalog Number	List Price
TTL-Serial	Pin Feed	4320AAA	\$1442.00
	Fric. Feed	4320AAE	1477.00
103-type Built-In Modem	Pin Feed	4320AAB	1875.00
	Fric. Feed	4320AAF	1910.00
EIA-RS232* or DC-20 to 60ma	Pin Feed	4320AAK	1558.00
	Fric. Feed	4320AAL	1593.00
Dual (Line + Aux.) each EIA* or DC	Pin Feed	4320AAH	1612.00
	Fric. Feed	4320AAJ	1647.00



### 4310 RO (Receive-Only)

Interface	Printer	Catalog Number	List Price
TTL-Serial	Pin Feed	4310AAA	\$1272.00
	Fric. Feed	4310AAE	1307.00
103-type Built-In Modem	Pin Feed	4310AAB	1705.00
	Fric. Feed	4310AAF	1740.00
EIA-RS232* or DC 20 to 60ma	Pin Feed	4310AAG	1388.00
	Fric. Feed	4310AAH	1423.00



\*Compatible with 103, 108-type data sets.

# model 43 teleprinters

## for efficient, reliable and economical printed communications

### Extremely Cost-Effective

The Teletype® model 43 basic teleprinter series is fast becoming the popular choice of those businesses that have a need for reliable, efficient and economical printed communications. Companies large and small are finding the model 43 extremely cost-effective in a variety of applications including message communications, time sharing, data entry and computer I/O.

### Low Cost of Ownership

Reliability is the hallmark of the Teletype model 43. A product of lead edge technology and innovative design, this basically simple electronic teleprinter yields one of the lowest costs of ownership you're likely to experience.

### High Level of Reliability

Since most functions are performed electronically, malfunctions due to worn parts are significantly reduced. And heat, the biggest enemy of electrical components, is minimized to such a degree that fans are not required. Only 75 watts is required to run the model 43. Then there's our 9-wire printhead engineered to deliver in excess of 200 million characters before replacement. And a snap-in ribbon cartridge that prints over 3 million characters. Both are simple and inexpensive to replace.

### Print Quality is Excellent

When compared with other matrix printers, we think you'll agree that print quality is excellent. A high resolution 7 X 9 dot matrix is used to provide extremely legible printout. What's more, lower-case characters have true descenders for improved readability. And the last character printed is always visible. No specially treated paper is required.

### Designed for Today's Environment

Quiet, lightweight and attractively styled, this tabletop teleprinter requires not much more space than an office typewriter. It can be conveniently located or relocated wherever information is needed...in the office, factory, laboratory or classroom. The 43 is so economical to own, operate and maintain that even business locations with low traffic can justify going on-line with the home office.

### Easily Integrated Info System

Model 43 teleprinters are easily integrated into most communications systems in use today. In addition to 10 to 30 character-per-second operation, these ASCII terminals are available with a number of single and dual interfaces allowing them to be coupled to a variety of standard data sets and OEM designed devices, or to modular-type telephones. What's more, they are compatible with Teletype Corporation's popular model 33 teleprinter family.

### Configurations to Suit Application

Configurations include receive only (RO), keyboard send-receive (KSR) and automatic send-receive with paper tape (ASR).

The ASR consists of a page printer, keyboard, paper tape punch and tape reader. It is these components that add versatility to your communications. Messages can be sent or received by the 43 ASR with or without perforating a corresponding tape.

### Convenient Remote Control Features

With the automatic punch control the punch can be turned on or off remotely by code, capturing only the information you want punched. And with the automatic reader control, a distant terminal can conveniently activate the

reader in the evenings when rates are lower or traffic volume is less.

### Punch/Reader Adds to Versatility

The tape punch and reader on the 43 ASR add a variety of other communication uses. Working together they can combine taped messages from various sources into one error-free master tape. The tape reader can transmit this information to other terminals or computers at 10 or 30 cps. In addition, the use of paper tape offers many advantages. It's easy to handle, accommodates messages of any length, and can be used to store basic information for reuse and even combined with variable text to save retyping.

### Choice of Printers

Teletype printers are available in friction feed and pin feed versions: The friction feed 43 lends itself to message traffic and time-sharing applications where text is of indeterminate length. It prints a 72 or 80 character line at 10 characters per inch.

The pinfeed 43 is especially suited for preparing business reports and tabular listings because it prints up to a full 132 character line at 13 characters per inch on 12" wide by 8½" long fanfold paper. This becomes a handy 11" x 8½" when the ½" sertrated margins are removed, a convenient size for reproducing and storing using standard office equipment.

### Engineered For Easy Maintenance

Powerful built-in diagnostic routines can check and isolate a failure to a component level. And modular design permits component change incredibly fast. So you can count on getting the most uptime operation from your model 43 teleprinter.



## FEATURES

### Operator Controls and Indicators

- Local/Local-Talk
- Data
- Term Ready/Auto-Answer
- Interrupt
- Alarm
- Print Test
- Parity On/Off
- Half or Full-Duplex
- 30 or 10 cps
- Terminals with the built-in data set also include operator controls for Talk, Data, and Automatic Answer.

### Printer

- Pin feed prints up to 72, 80, or 132 char/line at 13 char/in and 6 line/inch on fan-fold forms 12 inches wide. An original and up to three copies are provided (depending upon paper/carbon weight).
- Friction feed prints up to 72 or 80 char/line at 10 char/inch and 6 line/inch on standard 8½ inch wide 400 ft roll paper.
- Characters formed by a 7X9- 9-wire matrix impact printhead.
- Prints full 94 ASCII character set (upper/lower case) plus parity error symbol.
- Left and Right Margin Set and Clear, operator and on-line controllable.
- Bell rings before and at right margin and on receipt of BEL.
- 64-character Received Data Buffer.
- 47 char/sec print-out rate when data waiting in buffer.
- Line feeds at rate of 30 line/sec.
- Alarm and automatic disconnect on paper-out/paper low condition.
- Last character visibility.
- Print-position indicator scale.
- Paper guide and supply facilities.
- Ribbon cartridge (continuous inking) for easy replacement.

### Keyboard

- Typewriter-like keyboard generates all 128 ASCII code combinations.
- Back Space, operator and on-line.
  - N-Key Rollover: 8-character burst buffer.
  - Caps Lock, Repeat, Return, Line Feed, Shift and Control keys.

### Paper Tape Punch and Reader Module

- 10 or 30 characters per second
- 8-level, 1" Fully Perforated Oiled Paper Tape
- Manual and Automatic Punch and Reader Controls
- Punch Controls: Off, On, Auto/Start, Back-space, Blank feedout
- Reader Controls: Off, On, Auto/Start, Single Step/Skip; Tight, Tangled, Tape Out
- Motor Control with motor start buffer
- 1000 ft Paper Tape supply
- Chad Box

### General

- Modular components for easy replacement
- Built-in test feature
- Answer back option, via modification kit (up to 31 characters)
- Pedestal optional

### Technical Highlights

Transmission Asynchronous at 110 or 300 bits per second.

Code: 1968 ASCII.

Interface: EIA (RS232)/DC Current (20-60 ma), TTL (Digital), or FSK (Integrated 103 type data set—FCC Reg. No. AT793C-70162-DT-E)

Electrical Requirements: 115 VAC at 50/60 Hz.

#### Dimensions and Weight (approx)

	Height*	Width	Depth	Weight
ASR	8½"	26"	28"	50 lbs
KSR & RO	8½"	20"	23"	30 lbs

\*add 2" to height for pin feed versions

\*add 26" for optional pedestal

For further information on any Teletype Corporation product lines, or for the location of your nearest sales or product service representative, please contact:

Sales Headquarters  
5555 Touhy Avenue  
Skokie, Illinois 60077  
Telephone (312) 982-2000

Product Service Headquarters  
1325 Pratt Boulevard  
Elk Grove Village, IL 60007  
Telephone (800) 323-4226

## TELETYPE CORPORATION

GENERAL OFFICES: 5555 Touhy Avenue, Skokie, Illinois 60077 Telephone: (312) 982-2000—TWX: 910-223-3611  
and TELEX: 25-4051 (both have 24 hour automatic answering service)

**model 43 BSR  
buffered teleprinters  
for multi-point systems**





**Model 43 BSR Selective Calling Teleprinter**

#### **Capabilities for the Challenging 80's**

For multi-point private line users, the Teletype® model 43 buffered tabletop teleprinter is creating exciting possibilities for the challenging 80's. Flexibility is outstanding. And options and features have never been better.

Leading-edge technologies and an innovative design have produced a truly cost-effective terminal in support of 8-level selective calling applications. The 43 BSR produces one of the highest throughputs for your investment today...and one of the lowest costs of ownership.

#### **Application Oriented Family**

The multi-point private line model 43 BSR is a member of our 42/43 buffered teleprinter family consisting of 5 and 8 level terminals for point-to-point switched network/private line and multi-point private line applications. The architecture of this family allows for easy migration from one product to another simply by changing firmware and some keytops.

#### **Offers a Number of Advantages**

For companies looking to enhance their communications capabilities or to gain better control over their dispersed operations, our 43 BSR teleprinter offers a number of advantages—faster, more effective data flow—efficiencies that simplify the most complex data exchange—user-oriented features for ease of operation—powerful error controls for greater accuracy—flexibility to support your needs now and in the future—economy of operation—and the 43's record for remarkable reliability.

#### **Economical, Efficient Replacement**

What's more, 43 BSR stations are so economical to own, operate and main-

tain that even low traffic locations may be added to your communication system...and so efficient that replacement of your present stations with the 43 BSR may prove not only desirable but expedient.

#### **More Features/Options at no Extra Cost**

Our stations are loaded with features and options that focus on making your system more productive and responsive. All are standard. Many are either not available on other teleprinter stations or are available only as extra cost items.

#### **Keyboard Selectable Options Facilitate Customizing**

43 BSR Stations can be easily customized for integration into your communication system without experiencing painful compromises, software changes and complicated debugging. A listing of 80 installer options is stored in the terminal's non-volatile memory. Via the keyboard you select the speed, replies to polling and addressing, sending and receiving responses, and others. You can change any option in seconds. Those selected can be protected from being altered by unauthorized personnel.

#### **Load Routine Simplifies Programming**

Our convenient Remote Options Load Routine allows for efficient programming of operating parameters for all 43 BSR stations on your system. All options can be received over the communication line in the form of a message, i.e., "down-line" option loading. Not only does this feature make it simpler and faster to program each station, it also assures you that all stations are identical in operation.

#### **Versatile Controller Contributes Efficiencies**

At the heart of the model 43 BSR is a powerful microprocessor based controller. This versatile unit provides for 16,000 (16K) characters of solid-state buffer storage and makes possible many efficiencies in sending, receiving and editing message traffic. You can allocate the 16K of buffer storage as your message traffic dictates...takes only seconds.

#### **Local/Line Operation Increases Productivity**

Messages can be prepared and edited locally while messages are automatically sent or received on-line via the teleprinter's buffers. This independent operation allows your operator to concentrate on speed and accuracy without being subjected to interruptions.

#### **Auxiliary Port Adds to Flexibility**

You may use the teleprinter's Auxiliary Port (separate address and buffer) to add a Teletype model 40 or 43 Receive Only printer to permit simultaneous message preparation and printout of received traffic; to accommodate increased station traffic; or to satisfy various forms handling requirements. This arrangement can be highly productive because incoming traffic can be printed immediately, at up to 300 lines per minute, on all kinds of business forms.

#### **Compatible with ANSI 3.28 Protocols**

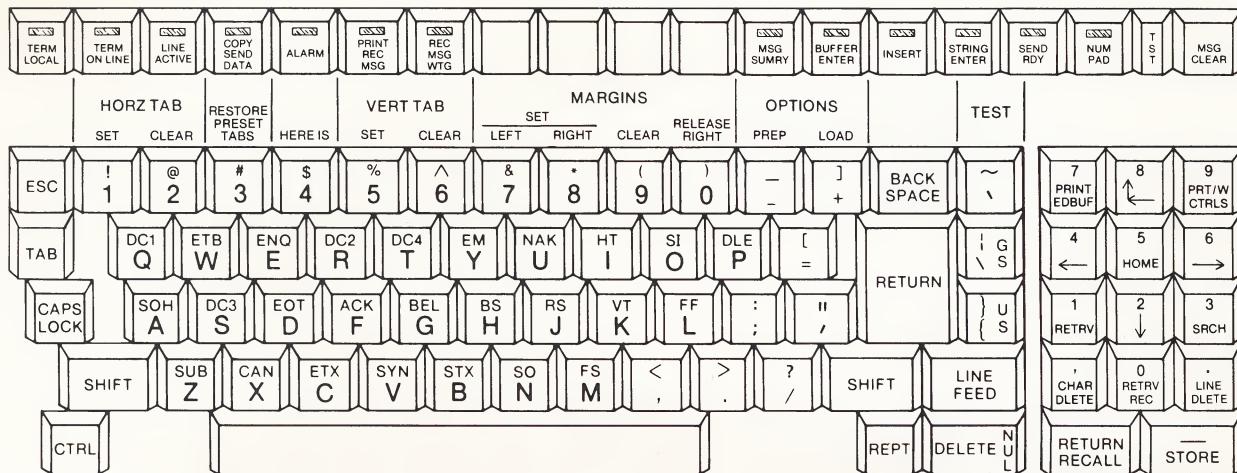
Our versatile 43 BSR stations are compatible with a variety of ANSI 3.28 protocols including 8A1, Poll/Select with LRC (Longitudinal Redundancy Check), 85A and others. They may be used with the following system operations:

- Centralized: Store and forward, station to host; host to station(s)
- Non-Centralized, Non-Contention: Store and forward and station-to-station (host controlled)
- Non-Centralized, Contention (No host required) station-to-station operation with intercept.

In addition, 43 BSR stations are capable of supporting the same asynchronous and isochronous multi-point operations as our model 40/3 CRT based systems and model 33 and 35 KSR based systems.

#### **Detects & Corrects Transmission Errors**

Catching transmission errors before they can become expensive business mistakes is another feature of our teleprinter station. It detects transmission errors using either a parity check or the powerful Longitudinal Redundancy Check. With the latter, errored messages can be optioned for automatic retransmission.



Another option permits only those messages free of transmission errors to be printed. Since only "clean copy" is viewed, there's less chance for misunderstandings. And you won't waste paper.

#### Advantages of Message Summary

Our Message Summary feature allows you to identify every message stored in every buffer by depression of a single key. Up to 256 characters of each message are printed. This allows your operator to quickly locate a specific message so it can be edited, reprinted or sent again. What's more, Message Summary can provide a permanent printed record of each station's total daily activities.

#### Priority Message Feature

Messages in the Edit/Send Buffer can be recalled anytime before sending and rearranged. In this way important messages/transactions can receive immediate attention.

#### Extensive Editing Capabilities

Operators can edit messages by deleting and inserting individual characters/lines or by character over-write. A full complement of editing controls simplifies and speeds the edit function. Changes can be proofed by the operator on an individual line basis or by printing the entire text.

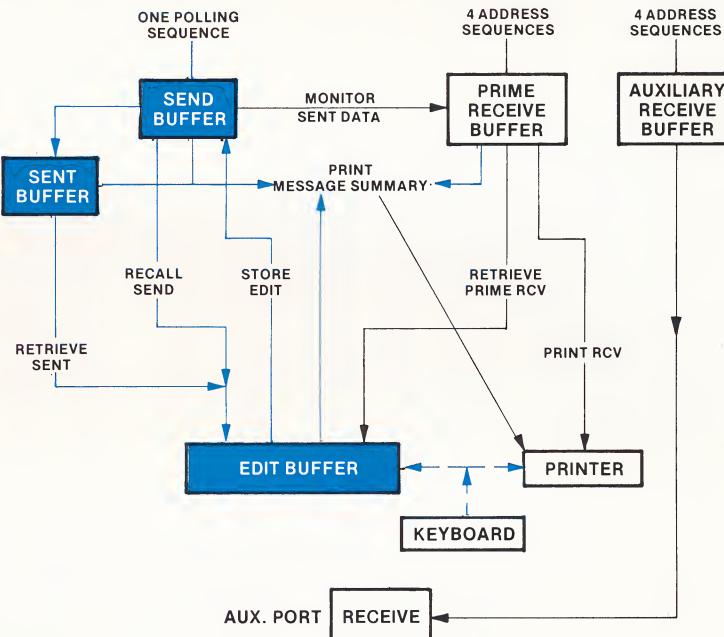
#### Features Promote Operator Efficiency

43 BSR features promote operator efficiency by simplifying terminal operation, by reducing required operator intervention and by reducing key strokes.

#### Automatically Generates/Appends Control Characters

Operators needn't concern themselves with required message control characters such as Start of Heading and End of Message. They can be automatically generated and appended for each message—to simplify operation—save keystrokes.

#### 43 BSR Data Flow



#### Fixed Header Generator Saves Strokes

Operators can also save keystrokes by using the local message generator to enter a group of characters frequently used in message preparation. Up to 15 fixed characters can be generated by depression of a single key.

#### Messages Retrievable from Buffers

Operators can access messages in any of the buffers and move them into the Edit/Send Buffer for readdressing or other reworking. An errored message remaining in the "Was Sent" portion of the Send Buffer may be retrieved and corrected very quickly. Only changes and additions need to be typed, not entire messages.

#### Receive Retrieval Aids File Update

In file update applications the operator can call the CPU for a file, copy it from the Receive Buffer to the Edit/Send Buffer, make the necessary changes, and return it to the CPU.

#### Remote Formatting Adds to Efficiency

Time can be saved by having the CPU send required stored formats to the station's printer. Margins and horizontal/vertical tab setting and top of form can be set in response to receipt of control codes from a remote sender.

#### Comprehensive Diagnostics Isolate Problems

With multi-point systems, it can take hours, sometimes days to determine responsibility for a problem. The comprehensive diagnostics of the 43 BSR can quickly isolate a trouble to the local or remote communications facility, the CPU, or to the teleprinter itself. If it's the teleprinter you can pinpoint the trouble to a specific component. Modular design makes replacement simple and fast—often only a few minutes.

## FEATURES AND SPECIFICATIONS

### General

- **Transmission**

**Facilities:** 2 or 4 wire

**Technique/Speed:** Asynchronous at 110, 150, 300, 600, 1200 or 1800 bps; Isochronous at 2400 bps

**Code:** 8 Level ASCII

**System Operation:**

Half-Duplex System, Half-Duplex Station

Full-Duplex System, Half-Duplex Station

- **Communication Interface:**

EIA RS232C; Requires Full-Duplex Data Sets

108, 202T, 201C or equivalent

Current 20/60 ma; requires 403103 Modification

Kit (EIA to Current Adapter)

- **Communication Function:**

Multi-Point Station selectivity (Poll/Select) with:

Establishment Status Replies

Message Transfer Transmission checking with

Automatic Retransmission

Controlled Retransmission

Longitudinal Redundancy Checking

Termination with Transmission checking

Roll call with status replies

- **Protocol Compatibility:**

ANSI 3.28 Subcategories 1.1, 2.4 thru 2.8, A1,

A3 and A4

85A Optional Procedures

8A1

Poll/Select with LRC

9131 Contention

### Primary Printer

- **Print Rate:** 47 characters per second provides true 30-character-per-second throughput including carriage return

- **Print Line:**

**Pin Feed:** 132 char./line at 13 char./inch

**Friction Feed:** 80 char./line at 10 char./inch

- **Vertical Spacing:** 6 lines/inch

- **Line Feed:** Single or double

- **Paper:**

**Pin Feed:** 12 inches wide, fanfold

**Friction Feed:** 8½ inch wide 400-ft. roll

- **Copies:**

**Pin Feed:** One original and up to three copies are provided (depending upon paper/carbon weight)

**Friction Feed:** One original

- **Printing Technique:** 7 X 9 dot matrix

- **Character Set:** 128 ASCII plus parity error symbol

- **Horizontal and Vertical Tabs:** Tab set and clear, keyboard and on-line selectable

- **Top of Form (form feed):** Any form length up to 22 inches, keyboard and on-line selectable

- **Margins:** Left and right set and clear, keyboard and on-line selectable

- **Signal Bell:** Activated before and at right margin during data entry and on receipt of BEL

- **Alarm:** Paper out (pin feed), low paper (friction feed)

- **Ribbon Cartridge:** Three-million characters (nominal)—easy replacement

### Keyboard

- **Arrangement:** Typewriter-like with numeric pad; generates all 128 ASCII code combinations; includes N-key rollover feature

### Buffer

- **Buffer Size:** 16K (16,000) characters

- **Edit/Send Buffer:** Dynamically divided into Edit Buffer, To-Be Sent Buffer, and Already-Sent Buffer

- **Receive Buffer:** Accepts all data from line, holds until printer becomes available. Consists of Primary Receive Buffer and Auxiliary Receive Buffer

- Numerous buffer controls and indicators

- **Auxiliary Printer (Optional)**

### Printer Options:

model 40 line printers, friction or tractor feed

model 43 teleprinters, friction or pin feed

### Electrical

- **Requirements:** 115 VAC±10% 50/60 Hz

- **Power Consumption:** 75 watts

- **Heat Generation:** 255 BTU/hour

### Physical

- **Dimensions:**

Height 5½ in. (13.97 cm)

Width 20 in. (50.8 cm)

Depth 21 in. (53.3 cm)

- **Weight:** 31 lbs. (14.09 kg) (approx.)

### Accessories

- Paperwinder for Friction Feed Printer

- Pedestal

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