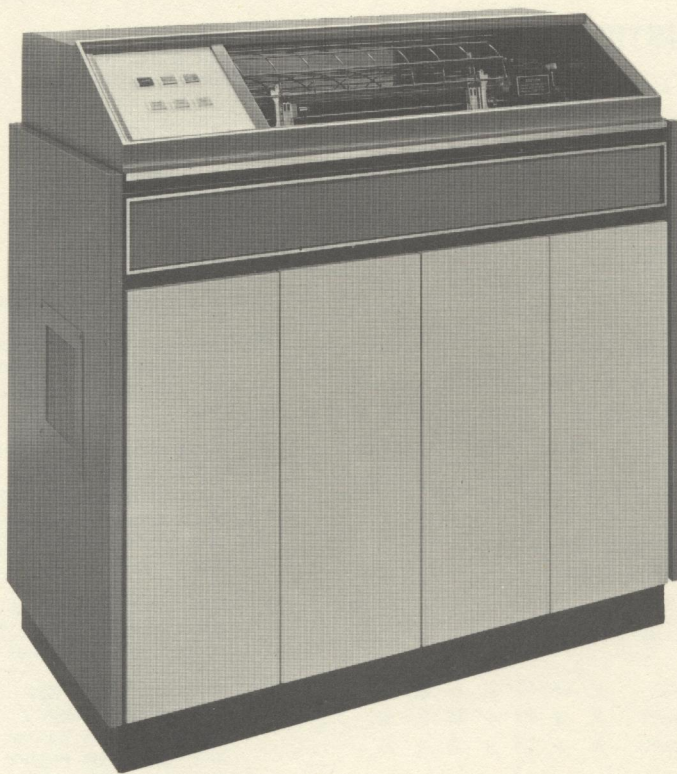## RC 610 LINE PRINTER

The line printer is a drum type device with 132 print positions. The print drum surface speed is approximately 1070 characters/second; with a 64-character drum this corresponds to a maximum printing speed of 1000 lines/minute.

The printer is connected to the low-speed data channel of the RC 4000 by means of a built-in controller, which buffers one line.

The maximum paper feed speed is 35 inches/second, corresponding to 5 ms/line after the third line. Maximum paper feed times are: 15 ms for one line, 25 ms for two lines, 30 ms for three lines. Paper feed can be controlled by an 8-track format tape and/or counting lines.

Operation

The printer is operated by the standard input/output instruction, which initiates data transfers and printing. The built-in controller executes a printing operation without engaging the computer and generates an interrupt signal when the operation is completed. Data is transferred from the RC 4000 to the line buffer by input/output instructions (write commands); up to 132 graphic characters can be buffered. The controller responds to the control characters (see character set) by executing the specified printing or control operation. An input/output instruction (sense command) transfers a status word to the RC 4000, indicating operator intervention, errors, end of paper, and the like.

The printer has a local/remote switch. In remote mode the printer is program controlled. In local mode the operator can insert and adjust forms and the like.

Character Set

The standard character set is a subset of the ISO 7-bit character set. Two standard print drums are available, one with 64 characters and one with 96 characters. The sole difference between the drums is that the larger one includes small as well as capital letters. Both drums include a set of national characters, making it possible to construct four alphabet varieties: Danish, German, Swedish, and ISO. Four, optionally eight, control characters are used.

CHARACTERISTICS

Printing Speed
max. 1000 lines/min

Print Positions
132

Standard Print Drums
64 and 96 characters

Character Set
ISO: 64-Character Drum:

A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z
0 1 2 3 4 5 6 7 8 9   space
! " % & ' ( ) * + , − . / : ; < = > ?

Additional Characters on
96-Character Drum:

a b c d e f g h i j k l m
n o p q r s t u v w x y z

National: Danish: Æ æ Ø ø Å å, or
German: Ä ä Ö ö Ü ü, or
Swedish: Ä ä Ö ö Å å, or
ISO: [ ]

Control: Standard: CR FF NL VT
Optional: SO SI CAN ESC

Print Density
horizontal: 10 char/inch
vertical: 6 lines/inch

Paper Feed Speed
max. 35 inches/sec

Power
220 V, 50 Hz, 1.5 KW

Ambient Air
temperature: 16 to 30°C
relative humidity: 30 to 70 %

Size and Weight
width: 114 cm
depth: 76 cm
height: 122 cm
weight: 400 kg

Control Character Functions

CR Carriage Return causes: the contents of the line buffer to be printed; the print position to be returned to the beginning of the same line.

FF Form Feed causes: the contents of the line buffer to be printed; the paper to be fed to the first line of the next form as indicated by track 0 of the format control tape; the print position to be moved to the first position of this line.

NL New Line causes: a line to be printed; the paper to be fed one line; the print position to be moved to the first position of this line.

VT Vertical Tabulation causes: a line to be printed; the paper to be fed as indicated by track 1 of the format control tape; the print position to be moved to the first position of the line indicated.

SO Shift Out causes the printer to interrupt the ensuing character codes according to the table for Shift Out.

SI Shift In causes the printer to return to the standard character assignment.

CAN Cancel causes the reset of the line buffer, Shift In, and the return of the print position to the first position.

ESC Escape enables the control character set to be expanded when ESC is combined with NL or VT in a prescribed structure.

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