

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips Terminal Printers

At the teller's desk, details of customer transactions must be printed immediately. At any working station the information entered, or answers to enquiries made, by the operator via the keyboard must often be visually recorded. Data shown on a display unit may also be required in the form of hard copy.

Different working stations have different printing requirements, and the Philips system therefore provides a series of printers. Each of the printers provides the functions and capacity necessary for the work and location for which it is intended, and occupies very little space.

The teller terminal printers are specially designed for printing on customer documents – vouchers, cheques, passbooks etc. For other work, high-speed, continuous paper printers are available. The printers are compatible with nearly all existing systems of bank documentation. The dimensional tolerances accepted by the printers are generous, and document positioning, line feeds and character spacing can be adjusted to suit standard documents. Thus, redesign of existing documents is rarely necessary.

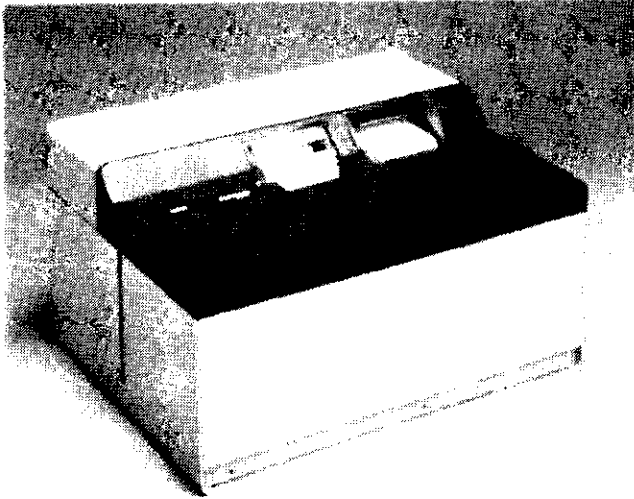
A variety of character repertoires is available to suit different national usages. Adjustments to characters/lines spacing and alignment can be made.

The printers are very compact, and may be sunk in or rest on the working surface. They can be operated from standing or sitting positions.

The range of printers available is such that the optimum system can be built up for any banking application.



Philips PTS 6225 Teller Terminal Printer



INTRODUCTION AND APPLICATIONS

The Philips 6225 Teller Terminal Printer is a terminal printer specially designed for over-the-counter printing applications.

It comprises three printing sections:

- a journal section, width 70 mm, printing area approx. 64 mm wide
- a tally roll section, width 70 mm, printing area approx. 64 mm wide
- a front feed section for voucher and passbook printing.

The printing speed is 80 characters per second. Its compactness makes the Philips PTS 6225 suitable for mounting into any teller's desk. It can be connected to a Philips PTS 6000 system terminal computer via a selector unit.

PRODUCT DESCRIPTION

The Philips PTS 6225 printer is a two-station combined printer. The left hand station is for vouchers, passbooks and tally rolls, and the right hand station is for journal tape. All printing is executed with one printing head.

The supply reel for the journal tape is provided with an end-of-paper detector which checks the radius of the reel. When the radius falls below a preset value a warning

can be given to the operator by the terminal computer.

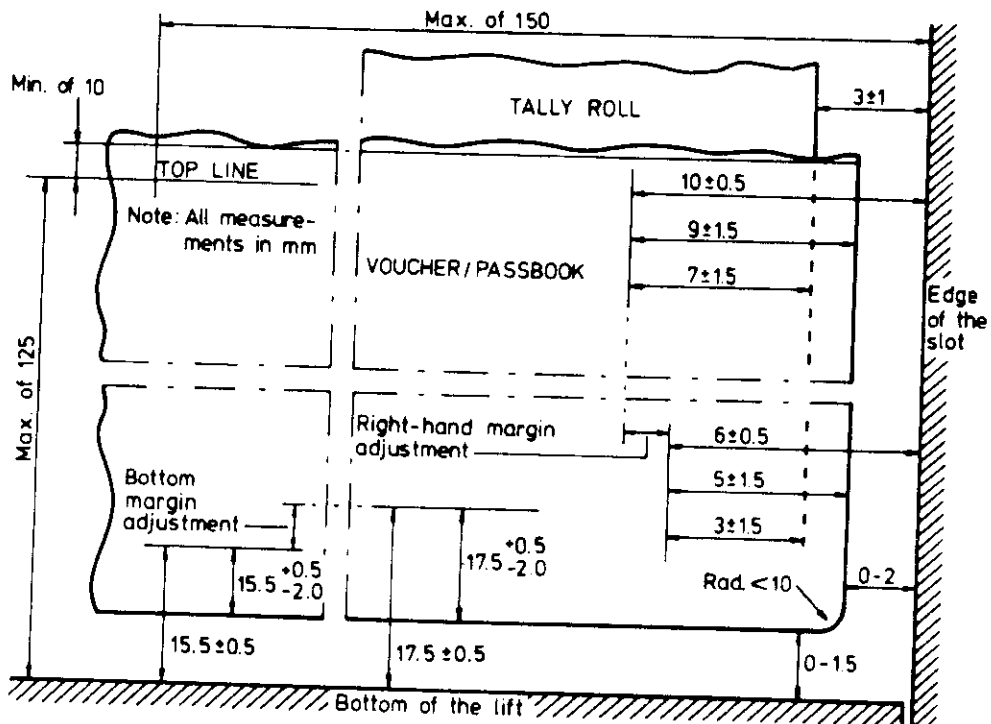
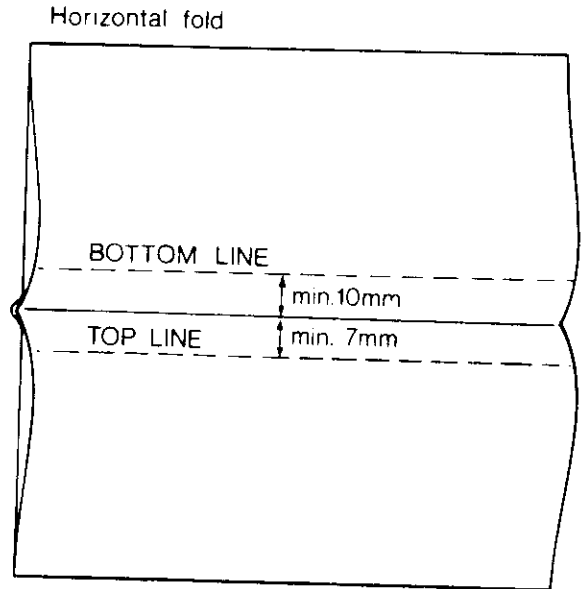
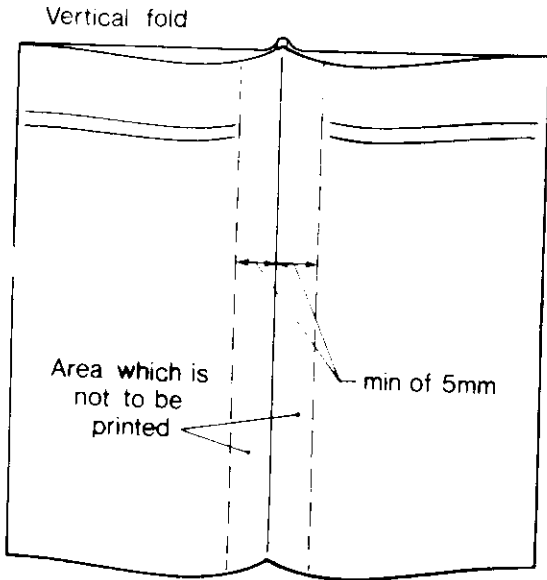
No end-of-paper detector is provided for the supply reel for the tally roll as it is partly visible to the operator.

Printable documents

Tally roll	
Total width	69,5 mm \pm 0,5 mm
Printing width	63,5 mm (max.) = 25 characters at character pitch of 0,1 inch
Paper roll diameter	70 mm (max.)
Supply reel shaft hole diam.	not critical
Paper weight	45 to 90 g/m ²
Line space accuracy	\pm 5% of nominal value
Journal tape	
Total width	69,5 mm \pm 0,5 mm
Printing width	63,5 mm (max.) = 25 characters at character pitch of 0,1 inch
Paper roll diameter	70 mm (max.)
Supply reel shaft hole diam.	10,2 mm + 0,2 mm -0 mm.
Paper weight	45 to 90 g/m ²
Line space accuracy	\pm 5% of nominal value
Vouchers/passbooks	
Total width	100 mm (min.)
Total height	50 mm (min.)
Paper weight	
Single voucher sheet	45 g/m ² (min.)
Voucher set	1 original + 3 copies (4 x 60 g/m ²) + 3 carbons (3 x 20 g/m ²)
Passbook thickness	3 mm (max.)
Printing area (see diagram)	
Width	150 mm (max.) incl. margin
Height	125 mm (max.) incl. margin
Accuracy of position detector	
Horizontal deviation	2,0 mm (max.)
Vertical deviation	1,5 mm (max.)
Inclination	1,5 mm (max.)
Line space accuracy	better than \pm 1 mm over full vertical range

PHILIPS PTS 6000 BANK TERMINAL SYSTEM

Philips PTS 6225 Teller Terminal Printer



Limitations applicable to both vouchers and passbooks

Philips PTS 6225 Teller Terminal Printer

Vouchers

Single sheet vouchers must weigh not less than 45 g/m² and must not transmit more light than the PTS 6000 reference voucher.

Passbooks

The maximum thickness of passbooks is 3 mm.

When using folded passbooks, a zone centered on the fold must be left out of printing. The reason is to avoid the risk of the print head getting caught up in the back, which is normally higher than the surrounding sides.

The distance between the lower edge of the bottom line is mechanically adjustable from a minimum of 15,5 mm to a maximum of 17,5 mm.

OPTIONS/USER ADAPTATIONS

- Character set
A number of different character generators for character sets following ISO standard including national characters are available. Also so called roomless point character generators are available. Optionally character generators meeting special requirements on the character repertoire can be supplied.
- Character space
Standard is 10 char/inch but can be changed to 12 char/inch as option.
- Line space
Normally program controlled in steps of 1/12 inch that allow 3,4 or 6 lines/inch. The steps can be altered to 1/10 inch, thus allowing 5 and 3,33 lines/inch.
- The printer can be provided with a lockable cover for the journal tape.
- Adjustment of bottom and right-hand margin.

CONNECTIONS

The Philips PTS 6225 Teller Terminal Printer will most often be combined with a keyboard and a display device. All these units are connected via a Selector Unit Modular to the terminal computer.

Connection of the Philips PTS 6225 to the Selector Unit Modular is via two standard 3m cables. Power for the printer is obtained from the selector unit.

TECHNICAL SUMMARY

Character font	8 x 9 matrix dot pattern
Character set	64 characters incl. space
Character spacing	10 char/inch standard 12 char/inch option
Printing speed	80 char/s
Tabulation and return speed	~ 500 mm/sek at 10 char/inch
Line spacing	6 lines/inch
Tally roll/journal tape	Program controlled in steps of: 1/12 inch, giving 3, 4 or 6 lines/inch 1/10 inch, giving 3,33 or 5 lines/inch
Voucher/passbook	
Line space accuracy	
Tally roll/journal tape	± 5% of nominal value
Voucher/passbook	± 1 mm over the full range
Accuracy for voucher/passbook position detector	
Horizontal deviation	2 mm (max.)
Vertical deviation	1,5 mm (max.)
Inclination	1,5 mm (max.) vertical deviation within the printing width
End of paper detector	
Journal tape	Yes
Tally roll	No, (reel is visible to operator)
Dimensions	
Width	370 mm
Height	180 mm (front), 210 mm (back)
Depth	300 mm
Weight	19 kg
Power	+36V ± 5% 1,2A av, 3,0 A peak + 5V ± 2%, 1,5A as supplied from selector unit in operation during storage
Environmental conditions	
Temperature	+15 to +35°C -40 to +70°C
Humidity	20 to 80% 20 to 95%
Heat dissipation	7,5W stand-by 50W whilst printing
Ink ribbon specification	8 mm, one colour nylon ca 0,07 mm thick, Bobbin no. 20, Philips approved brand and type

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Philips PTS 6225 Teller Terminal Printer

Character set and code tables

ISO Standard

	2	3	4	5
0	SP	0	a2	P
1	!	1	A	Q
2	"	2	B	R
3	a1	3	C	S
4	\$	4	D	T
5	%	5	E	U
6	&	6	F	V
7	'	7	G	W
8	(	8	H	X
9	)	9	I	Y
A	*	:	J	Z
B	+	;	K	a3
C	,	<	L	a4
D	-	=	M	a5
E	.	>	N	^
F	/	?	O	-

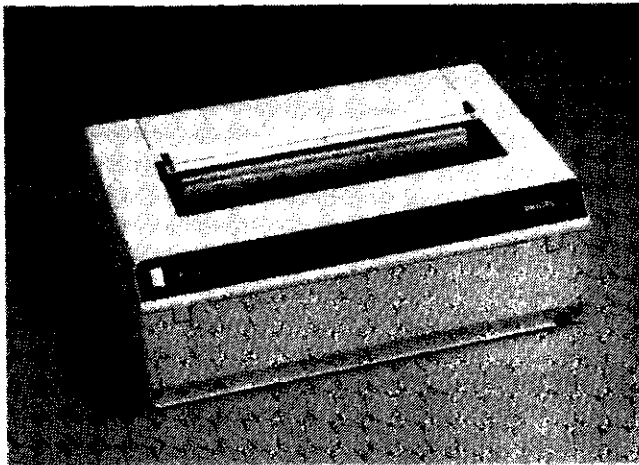
National variations applicable to the countries:	a1	a2	a3	a4	a5
D/A/L/CH Germany, Austria, Luxemburg, Switzerland	23	40	5B	5C	5D
GB/NL/B Great Britain, Netherlands, Belgium	#	§	Ä	Ö	Ü
F/CH/B/L France, Switzerland, Belgium, Luxemburg	£	@	|	\	\]
E Spain, Argentina, Venezuela	£	à	°	¢	§
I/CH Italy, Switzerland	£	§	°	¢	É
S/SF Sweden, Finland	#	É	Ä	Ö	Å
DK/N Denmark, Norway	£	@	Æ	Ø	Å
P Portugal, Brazil	£	@	Ã	¢	Õ
US USA, Canada, Australia	#	@	[\]

Roomless point

	2	3	4	5
0	SP	0	7.	P
1	0.	1	A	Q
2	1.	2	B	R
3	a1	3	C	S
4	⊗	4	D	T
5	%	5	E	U
6	2.	6	F	V
7	3.	7	G	W
8	(	8	H	X
9	)	9	I	Y
A	*	:	J	Z
B	+	4.	K	a3
C	,	5.	L	a4
D	-	=	M	a5
E	.	6.	N	8.
F	/	?	O	9.

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6321 General Terminal Printer



INTRODUCTION AND APPLICATIONS

The Philips PTS 6321 General Terminal Printer is especially designed for printing at a general terminal and acting as hard copy back-up for a display unit. Sprocket paper feed is used for handling continuous fan-fold paper and the printing speed is 50 characters per second.

The Philips PTS 6321 General Terminal Printer can be used either as a table-top model or be built into a desk. In both cases, the compactness of the unit allows it to be installed at existing locations without the need for extensive rearrangement.

It can be connected to a Philips PTS 6000 system terminal computer via a selector unit.

PRODUCT DESCRIPTION

The Philips PTS 6321 printer is an output device used for alphanumeric printing at a general terminal or as hardcopy back-up for display. The printing operation is under the programmed control of the terminal computer in the central unit. The printer uses continuous fan-fold paper of the sprocket feed type and a pin matrix-type print head for forming clear, detailed characters with a dot pattern.

Tabulating commands and platen stepping are controlled by the terminal computer as part of the transaction routine and line spacing can be switched to three values. It is possible manually to rotate the platen to correspond to any given line, or manually to control the continuous paper-feed via a key on the printer.

Paper specifications

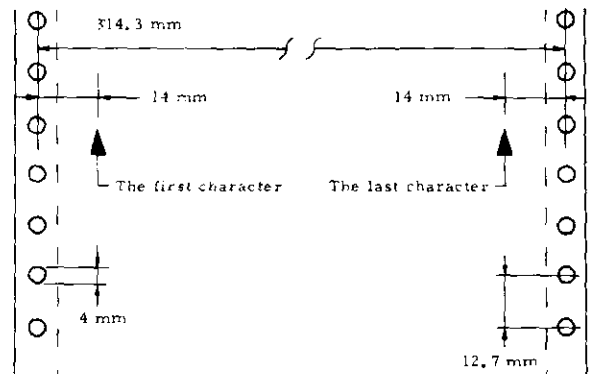
The paper must be continuous fan-fold paper of the sprocket feed type.

The weight must be 40 to 90 g/m²

Up to three copies to the original can be printed where

Original + 3 copies	60 g/m ²
carbon sheets	20 g/m ²
or comparable.	

Paper width 314,3 mm between pegs giving a printing area approx. 290 mm width, corresponding to 113 characters.



Specification of the paper to be used in the Philips PTS 6321 printer

OPTIONS/USER ADAPTATIONS

- Character generator sets of printable graphics other than those described can be supplied.

CONNECTIONS

The Philips PTS 6321 General Terminal Printer will most often be combined with a keyboard or a display device. All these units are connected via a Selector Unit Modular to the terminal computer. Connection of the PTS 6321 to the selector unit is via two standard 3m cables. Power for the printer is obtained from the selector unit.

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6321 General Terminal Printer

Environmental conditions	in operation	during storage
Temperature	+15% to +35°	-40 to +70°C
Humidity	20 to 80%	20 to 95%
Heat dissipation	6 W stand-by	42 W whilst printing.
Ink ribbon specification	8 mm, one colour nylon ca. 0,07 mm thick, bobbin no. 20, Philips approved brand and type.	

TECHNICAL SUMMARY

Character font	8 x 9 matrix dot pattern
Character set	64 characters incl. space
Character spacing	10 char/inch
Printing speed	50 char/s
Tabulation and return speed	250 mm/s (min.)
Line feed speed	45 mm/s
Line spacing	3,4 or 6 lines/inch (switchable)
Platen width	314,3 mm
Dimensions	
Width	470 mm
Height	175 mm
Depth	305 mm
Weight	17 kg
Power	+36 V \pm 5%, 1,0 A av., 2,5 A peak + 5 V \pm 2%, 1,2 A as supplied from the selector unit.

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6321 General Terminal Printer

ISO-7

	2	3	4	5
0	SP	0	a2	P
1	!	1	A	Q
2	"	2	B	R
3	a1	3	C	S
4	\$	4	D	T
5	%	5	E	U
6	&	6	F	V
7	,	7	G	W
8	(	8	H	X
9	)	9	I	Y
A	*	:	J	Z
B	+	;	K	a3
C	,	<	L	a4
D	-	=	M	a5
E	.	>	N	^
F	/	?	O	_

National Variations					
Country	a1	a2	a3	a4	a5
Germany, Austria, Luxembourg, Switzerland.	#	§	Ä	Ö	Ü
Great Britain, Netherlands, Belgium	£	@	[\]
France, Switzerland, Belgium, Luxembourg.	£	à	°	ç	§
Spain.	£	@	[	Ñ]
Italy, Switzerland.	£	§	°	ç	É
Sweden, Finland	#	É	Ä	Ö	Å
Denmark, Norway	£	@	Æ	Ø	Å
Portugal	£	@	Ã	Ç	Õ

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6321 General Terminal Printer

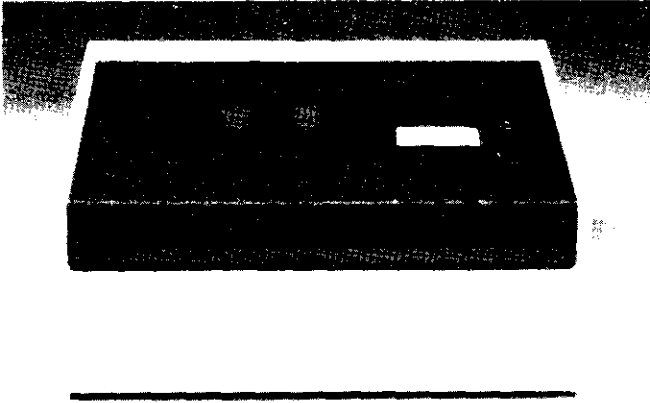
Printable graphics
ISO-7 with roomless point

	2	3	4	5
0	SP	0	7.	P
1	0.	1	A	Q
2	1.	2	B	R
3	a1	3	C	S
4	⌘	4	D	T
5	%	5	E	U
6	2.	6	F	V
7	3.	7	G	W
8	(	8	H	X
9	)	9	I	Y
A	*	:	J	Z
B	+	4.	K	a2
C	,	5.	L	a3
D	-	=	M	a4
E	.	6.	N	8.
F	/	?	O	9.

National Variations				
Country	a1	a2	a3	a4
Germany, Austria, Luxembourg, Switzerland	#	Ä	Ö	Ü
Great Britain, Netherlands, Belgium	£	[/]
France, Switzerland, Belgium, Luxembourg	£	°	Ç	§
Spain	£	[	Ñ]
Italy, Switzerland	£	°	Ç	É
Sweden, Finland	#	Ä	Ö	Å
Denmark, Norway	£	Æ	Ø	Å
Portugal	£	Ã	Ç	Õ

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6371 Terminal Printer



INTRODUCTION AND APPLICATIONS

The Philips PTS 6371 Terminal Printer is an output device specially designed for over-the-counter printing applications. It prints on single papers, document sets, passbooks and journal paper with a take-up roll, which is protected from unauthorized manipulation by a keylock on the cover lid.

The printing speed is 120 characters per second in both directions. The printer calculates the shortest way for the print head to next print position.

Since it is a compact unit, which can be placed as a desk top printer or cut down into the desk the Philips PTS 6371 Terminal Printer can be fully adjusted to the best ergonomic position. The printer is connected to a computer or a controller in a Philips PTS 6000 system via a cable of up to 150 meters length in a star connection system and up to 850 meters in a multi-point connection system.

PRODUCT DESCRIPTION

The Philips PTS 6371 Terminal Printer is designed to be a main module in a Philips PTS 6000 work station. It is, besides being a printer, a communication unit for connected work station modules and has a power distribution function. Up to four modules, such as keyboard, display and badge card reader can be cable connected to a Philips PTS 6371 Terminal Printer. A module can be placed up to 10 meters from the printer. The standard cable length is, however, 3 meters.

Furthermore, an operator panel, which for instance can be used when the printer is shared between two or

more work stations, can be inserted. The panel is placed in the front of the printer and is field installable.

The power supply of the printer is a separate module, which can be mounted either on the rear side of the printer or separately, to save space, on up to 1.5 meters distance from the printer.

The Philips PTS 6371 Terminal Printer is a two-station combined printer. The left hand station is for printing on documents like vouchers, set of forms and passbooks and the right hand station is for journal printing. All printing is executed with one print head, which automatically follows the thickness of the inserted document.

The print head is a nine needle head. One character (including the space between the characters) is built up by 14 columns with 9 dots in each. For standard character sets only 9 of the 14 columns are used. As standard the printer can print both upper and lower case alpha numeric characters according to ISO standard including twelve national character sets, the numeric OCR-A set and roomless point numerics. The actual character set is selected by the program in the computer.

Special characters, like logotypes, can be realized by adding a separate character generator in the printer for those characters.

Also the distance between the characters, the character pitch, is software controlled. There are three pitches, 1/10 inch, 1/12 inch and 1/15 inch available. By software command the pitch can be changed, which gives the possibility to print for instance 10 char/inch in the passbook and 15 char/inch on the journal.

Changing the pitch is implemented by expanding or compressing the distance between the columns, which means that both the character width and the inter character space is changed with the same factor. It is also possible to print in an expanded mode, where every column is printed twice.

Document station

The document is fed vertically into the printer through a slot in the upper part of the cover. The line feed is based on a basic step of 1/60 inch giving for instance 4, 5 or 6 lines/inch by software command. The document can be fed in both directions.

The printer indicates automatically the position of the inserted document and adjusts the printing line accordingly, which gives an accurate positioning from line to line between different print occasions.

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6371 Terminal Printer

Printable documents are:

- single vouchers
 - document sizes up to standing A4
- set of forms
 - up to 4 copies (1 + 3) using carbon or active paper.
 - Document sizes up to A4 with an attachment at one side or at the bottom of the set can be used
- passbooks
 - with horizontal or vertical fold

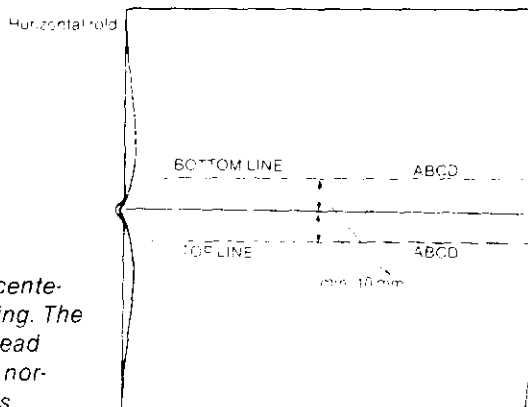
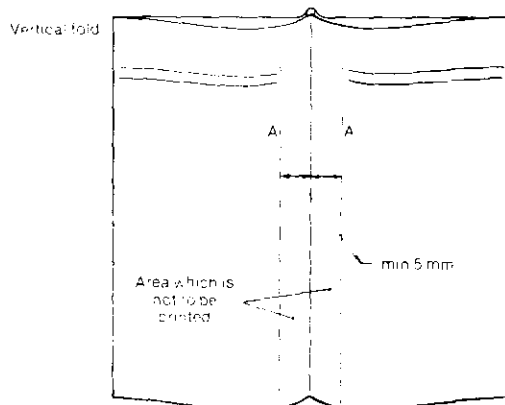
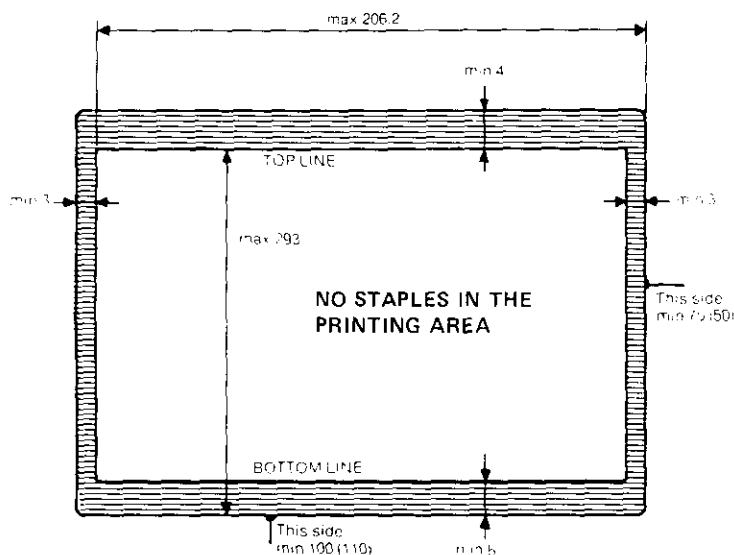
Voucher/passbook data

Total width	Min 100 mm Max 247 mm
Total height	Min 75 mm
Paper weight	
Single voucher sheet	60 g/m ²
voucher set	1 original (60 g/m ²) + 3 copies (3 x 40 g/m ²) + 3 carbons (3 x 20 g/m ²)
Passbook thickness	Max 3 mm
Printing area	
width	203.2 mm
height	287 mm
Accuracy of position detector	
horizontal deviation	Max 1.0 mm
vertical deviation	Max 0.7 mm
inclination	Max 1.0 mm on A4 width
line space accuracy	± 0.5% over the full range

It is also possible to print on documents with a smaller height than mentioned in the voucher/passbook data above. Minimum height is 50 mm and minimum width is 110 mm. For such documents an additional bottom stop at a higher level in the printer is used. No automatic detection of vertical position is provided when this facility is used. The additional bottom stop is software controlled.

When using folded passbooks, a zone centered on the fold must be left out of printing. The reason is to avoid the risk of the print head getting caught up in the back, which is normally higher than the surrounding sides.

Printable area in the voucher/passbook



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Philips PTS 6371 Terminal Printer

Journal station

The journal print station is an option which can be installed or removed in the field.

Normal paper rolls with paper width of 90 mm and a diameter not exceeding 80 mm shall be used. (70 mm diameter is recommended if the whole roll is rewound on the take-up reel.) Printing on the journal is right hand margin oriented.

The supply reel for the journal tape is provided with an end-of-paper detector, which checks the radius of the reel. When the radius falls below a preset value, which is switchable between 15 and 25.4 mm respectively, a warning can be given to the operator by the computer.

Journal tape data

Total width	90 mm
Maximum line length at	
10 char/inch	33 characters
12 char/inch	40 characters
15 char/inch	50 characters
Supply reel diameter	80 mm (max)
Paper weight	60 to 90 g/m ²
End-of-paper detector	at 25.4 or 15 mm (bobbin diameter)

Serviceability

The Philips PTS 6371 Terminal Printer is provided with advanced diagnostic aids and the following features are incorporated:

- DC-on lamp, placed outside the cover at the top
- Test indicators, visible when the cover lid is opened
- Test switches, operable when the cover lid is opened
- Diagnostic programs, both in local and on-line (to the terminal computer) mode

OPTIONS/USER ADAPTATIONS

The following options, which all are field installable, are provided:

- Attached or separate power supply module
- With or without journal station
- Communication interfaces for local and remote connection to the PTS 6000 computer in a
 - star configuration
 - multipoint configuration
- Different side stops depending on passbook size
- Two extra connectors for work station modules
 - Two connectors included in the standard version
- Operator panel
- Character generator for logotype or special characters

CONFIGURATION

The Philips PTS 6371 Terminal Printer is a work station main module, which includes communications and power distribution functions for connection of up to four work station modules designed to work with the PTS 6000 standard interface called the Short Distance Interface (SDI). Furthermore, the printer can be provided with communication interfaces allowing both local and remote connections to a PTS 6000 computer or controller in either a star or a multipoint configuration system.

The cable length to the computer for the locally connected printer can in a star configuration be up to 150 meters and in a multipoint configuration up to 850 meters.

The cable length between the printer unit and a connected module is as standard 3 meters but up to 10 meters length is possible.

The power module of the printer is connected to mains via a 2.5 m cable. If the power module is mounted separately it is connected to the printer via a 1.5 meters cable.

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Philips PTS 6371 Terminal Printer

TECHNICAL SUMMARY

Character font	9 x 9 matrix dot pattern	Power requirements	100—130 V/200—240 V \pm 10%
Character set	96 characters incl space (upper and lower case) National characters Roomless point numerics OCR-A characters	50 or 60 Hz \pm 2%	
Character spacing	10 char/inch 12 char/inch 15 char/inch software controlled	Environmental conditions	in operation during storage
Printing speed	120 char/sec in both directions	Temperature	+ 15 to + 35°C —40 to + 70°C
Line feed speed	85—125 mm/sec	Humidity	20 to 80% 20 to 95%
Line spacing	journal tape 6 lines/inch voucher/passbook program controlled in steps of 1/60 inch giving e.g. 4, 5 or 6 lines/inch (can be set to 1—15/60 inch)	Heat dissipation	Stand by Operating 34 W 100 W
Line space accuracy	voucher/passbook \pm 0.5% over the full range	Ink ribbon specification	one colour nylon ca 0.09 mm thick, Philips cassette, min 22 m double sided
Accuracy for voucher/ passbook position detector	horizontal deviation max 1.0 mm vertical deviation max 0.7 mm inclination max 1.0 mm vertical deviation within the printing width		
End-of-paper detector	journal tape yes		
Dimensions	width 490 mm height 210 mm depth 335 mm without power supply 385 mm with power supply		
weight	23.5 kg without power supply 25.1 kg with power supply		

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Philips PTS 6371 Terminal Printer

Character set of the PTS 6371 Terminal Printer

	2	3	4	5	6	7
0	SP	0	a2	P	a6 a2	P.P
1	!	1	A	Q	a A	q Q
2	"	2	B	R	b/B	r/R
3	a1	3	C	S	c/C	s/S
4	S	4	D	T	d/D	t/T
5	%	5	E	U	e/E	u/U
6	&	6	F	V	f/F	v/V
7	'	7	G	W	g/G	w/W
8	(	8	H	X	h/H	x/X
9	)	9	I	Y	i/I	y/Y
A	+	:	J	Z	j/J	z/Z
B	+	:	K		a3 k/K	a7 a3
C	,	<	L		a4 l/L	a8 a4
D	-	=	M		a5 m/M	a9 a5
E	.	>	N		n/N	a10
F	;	?	O		o/O	

Char 1/Char 2

Character 1 will be printed if upper and lower case is selected.

Character 2 will be printed if upper case only is selected.

5 C for France I and Italy and 5 D for Italy will be capital letters when upper case only is selected.

National variations applicable to the countries:	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10
	23	40	5B	5C	5D	60	7B	7C	7D	7E
Great Britain, Netherlands, Belgium	£	“	[	\	\]	`	|	|	|	~
USA, Canada, Australia	#	@	[	\	\]	`	|	|	|	~
France, Switzerland, Belgium Luxembourg I	£	à	°	ç	š	`	é	ù	è	..
France, Switzerland, Belgium Luxembourg II	â	à	ê	ç	î	ô	é	ù	è	û
Italy, Switzerland	£	š	°	ç	é	ù	à	ò	è	ì
Sweden, Finland	#	É	Ä	Ö	Å	é	ä	ö	å	~
Denmark, Norway I	#	É	Æ	Ø	Å	é	æ	ø	å	~
Denmark, Norway II	£	“	Æ	Ø	Å	`	æ	ø	å	~
Germany, Austria, Luxemburg, Switzerland	#	š	À	Ö	Ü	`	ä	ö	ü	ß
Spain, Argentina, Venezuela	£	“	|	Ñ	|	`	|	ñ	|	~
Portugal, Brazil	£	“	Ã	Ç	Õ	`	ã	ç	õ	~
Yugoslavia	£	Ž	Ć	Č	Š	ž	ć	č	š	~

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6371 Terminal Printer

PRINT SAMPLES

UPPER CASE

Normal mode

10 char/inch

```
ABCDEFGHIJKLMN OPQRSTUVWXYZ  
0123456789 0123456789JYH  
!"$%&'()*+,-./:;<=>?
```

12 char/inch

```
ABCDEFGHIJKLMN OPQRSTUVWXYZ  
0123456789  
!"$%&'()*+,-./:;<=>?
```

15 char/inch

```
ABCDEFGHIJKLMN OPQRSTUVWXYZ  
0123456789  
!"$%&'()*+,-./:;<=>
```

Expanded mode at 10 char/inch

```
ABCDEFGHIJKLMN OP  
0123456789  
!"$%&'()*+,-./:;<
```

UPPER AND LOWER CASE

Normal mode

10 char/inch

```
ABCDEFGHIJKLMN OPQRSTUVWXYZ  
abcdefghijklmnopqr stuvwxyz  
0123456789  
!"$%&'()*+,-./:;<=>?
```

12 char/inch

```
ABCDEFGHIJKLMN OPQRSTUVWXYZ  
abcdefghijklmnopqr stuvwxyz  
0123456789  
!"$%&'()*+,-./:;<=>?
```

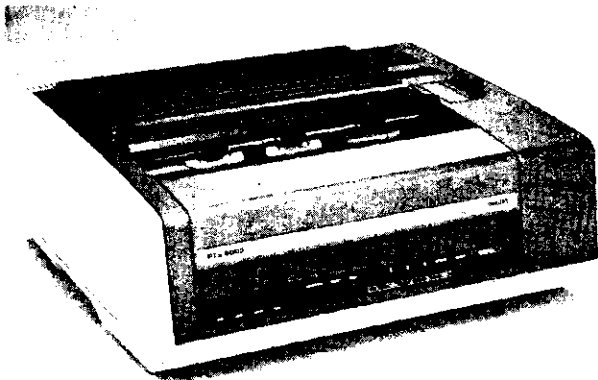
15 char/inch

```
ABCDEFGHIJKLMN OPQRSTUVWXYZ  
abcdefghijklmnopqr stuvwxyz  
0123456789  
!"$%&'()*+,-./:;<=>?
```

Expanded mode at 10 char/inch

```
ABCDEFGHIJKLMNO  
abcdefghijklmnop  
0123456789
```


Philips PTS 6374 General Terminal Printer



The Philips PTS 6374 General Terminal Printer is an alphanumeric matrix printer with built-in workstation main module functions. The same printer without main module function is called PTS 6375 GTP.

The printer is really general and can in the same installation be used both for high speed printing with normal matrix quality and high quality printout at reduced speed. This together with excellent paper handling functions makes the PTS 6374 GTP the ideal printer for the office with varying requirements like:

- hardcopy printing together with a display
- listing and management reporting
- ticket and label printing
- word processing

The PTS 6374 GTP can be used as a table top model or mounted on a pedestal. In both cases compactness of the unit allows it to be installed at existing locations without need of extensive rearrangements.

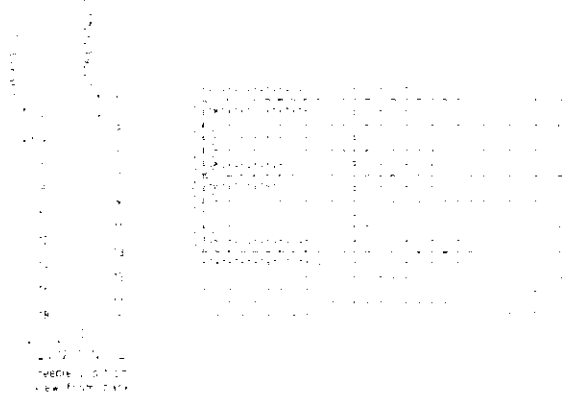
MAIN MODULE FUNCTIONS

The main module part of the PTS 6374 GTP provides the facilities for connection of other workstation modules and also for connection of the workstation itself to a local multipoint network (LWSI). The PTS 6374 GTP contains four standard interfaces for workstation modules such as keyboard, display and badge card reader. The standard cable length for workstation modules is 3 m. Up to 10 m is possible with special cable.

PRINTER DESCRIPTION

Printing Performance

The Philips PTS 6374 GTP has a printhead with 18 needles arranged in 2 columns according to figure.



This arrangement makes it possible either to print high quality upper and lower case characters as well as logotypes and other graphics in a high resolution matrix using all needles, or to print normal quality characters at a higher speed by using only one of the needle columns, i.e. 9 needles.

The design concept of the PTS 6374 provides for a great flexibility in adapting the printing to different application demands. Under control of terminal computer program the printer can be set for standard and optional character sets including national variations, for applicable character font and pitch, for line spacing, for page height and for tabulations.

The basic character set of the PTS 6374 GTP is a full set of 96 upper and lower case characters in 12 national versions. The characters can be printed in normal Data quality font (9x9 dot matrix) with 10 or 12 characters per inch and in high quality Gothic font (18x25 dot matrix) with 10 or 12 characters per inch or proportional.

Logotypes, special characters and other fonts can also be implemented as optional character generator extensions.

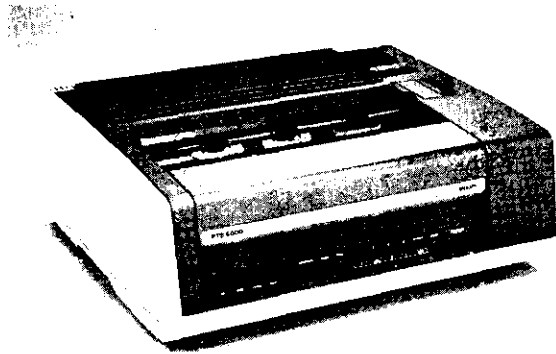
A high printspeed is maintained by automatically controlled bidirectional printing, and built-in automatic copy-control ensures a good printout also when additional copies are desired.

Philips PTS 6374 General Terminal Printer

Document Handling

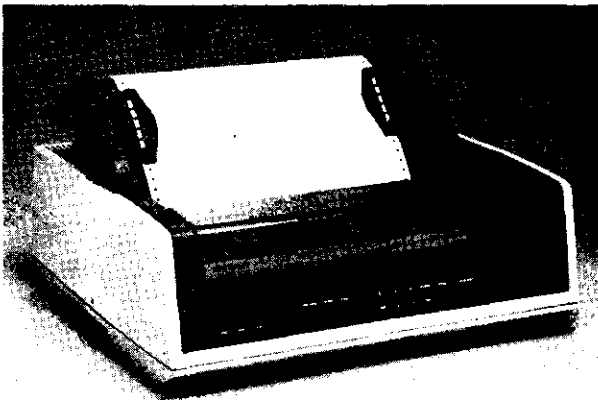
The PTS 6374 GTP has got the following paper handling possibilities

- Friction feed
- Tractor feed
- Front feed



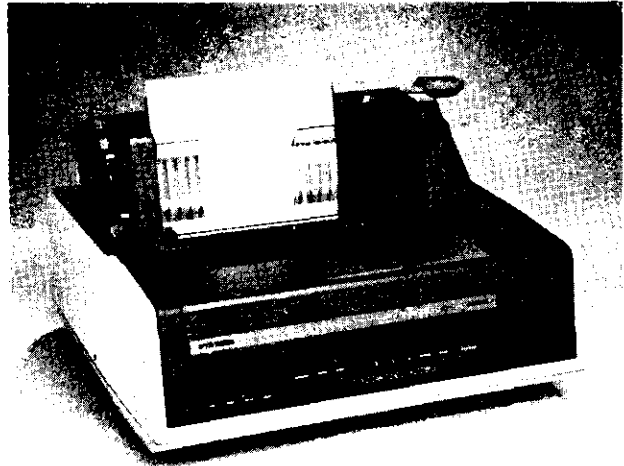
Friction feed

The basic printer is equipped with friction feed type document handling. The documents used are manually inserted.



Tractor feed

A document handler of the tractor feed type for continuous, pin fed, fan-folded paper is available as a separate field installable Tractor Feed Kit. The tractor can be adjusted to different paper widths.



Front feed

With the tractor mechanism already in place another separate unit, a field installable Front Feed Kit, can be added and used for front feeding of documents.

Operator's Panel

At the front of the printer an operator's panel is positioned. This panel is used when printer parameters are to be changed. However parameters preset from the panel are superseded by software commands.

Serviceability

The modular design of PTS 6374 GTP together with builtin selftest function ensures minimum down-time.

Options

The following options are available

- 9x7 matrix character generator for printing with 15 characters per inch
- Logotype character generator

Accessories

The following accessories and kits for field adaptation are available

- Pedestal
- Tractor Feed Kit
- Front Feed Kit
- Paper Run Detection Kit

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6374 General Terminal Printer

TECHNICAL SUMMARY

<i>Character font</i>	
standard	9×9 dot matrix Data quality
standard	18×25 dot matrix Gothic
option	9×7 dot matrix Data quality
option	18×25 dot matrix Logotype or Semigraphic
<i>Character set</i>	96 characters inclusive upper and lower case with 12 national versions (See table)
<i>Character spacing</i>	
standard	10,12 char/inch with 9×9 matrix
standard	10,12, proportional with 18×25 matrix
option	15 char/inch with 9×7 matrix
<i>Printing speed</i>	Speed Pitch Matrix
	char/s char/inch
	150 10 9×9
	180 12 9×9
	80 10, 12 18×25
	100 proportional 18×25
option	120 15 9×7
<i>Line spacing</i>	3, 4, 6, 8, 12, 16, 24, or 48 lines/inch
<i>Paper adjustment</i>	48 steps/inch
<i>Paper feed speed</i>	4 ms/step (1/48 inch) 38 ms/single line (1/6 inch)
<i>Print platen</i>	340 mm
<i>Left margin</i>	Selectable 0 or 20 mm
<i>Print width</i>	Max 305 mm (12 inches)
<i>Paper handling</i>	
standard	Friction feed
accessory	Tractor feed
accessory	Front feed
<i>Number of copies</i>	1+3 automatic copy-control

<i>Document</i>	<i>Type</i>	<i>Width</i>	<i>Height</i>
friction feed	Single sheet or top glued form set	105 to 340 mm	Min 70 mm
tractor feed	Continuous fan-folded paper ISO 2784	70 to 340 mm incl paper guide	101 to 305 mm between perforations
front feed	Single sheet or bottom glued form set	105 to 305 mm	148 to 330 mm
<i>Top of form function</i>	Yes		
<i>Paper low detection</i>	With tractor feed one page (A4) can be printed after paper low signal		
<i>Paper run detection</i>	Senses paper movements (optional addition to tractor feed)		
<i>Network interface</i>	LWSI, interface to local multipoint network		
<i>Module interface</i>	2 SDI/SUM and 2 SDI strappable for SUM or V24		
<i>Mains requirements</i>	100–130 V 200–240 V 50 or 60 Hz	±10% ±10% ± 2%	
<i>Environmental conditions</i>	temperature humidity	in operation +15 to +35°C 20 to 80% RH	storage –40 to +70°C 20 to 90% RH
<i>Heat dissipation</i>	Standby Operating	Approx 50 W Approx 160 W	
<i>Dimensions</i>	width depth height	520 mm 445 mm 195 mm (friction feed)	
<i>Weight</i>		20 kg	

Data subject to change without notice

Philips PTS 6374 General Terminal Printer

Character set

	2	3	4	5	6	7
0	SP	0	a2	P	a6, a2	p/P
1	!	1	A	Q	a/A	q/Q
2	"	2	B	R	b/B	r/R
3	a1	3	C	S	c/C	s/S
4	\$	4	D	T	d/D	t/T
5	%	5	E	U	e/E	u/U
6	&	6	F	V	f/F	v/V
7	'	7	G	W	g/G	w/W
8	(	8	H	X	h/H	x/X
9	)	9	I	Y	i/I	y/Y
A	*	:	J	Z	j/J	z/Z
B	+	;	K	a3	k/K	a7/a3
C	,	<	L	a4	l/L	a8/a4
D	-	=	M	a5	m/M	a9/a5
E	.	>	N	^	n/N	a10
F	/	?	O	-	o/O	

National variations applicable to the countries:	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10
	23	40	5B	5C	5D	60	7B	7C	7D	7E
Great Britain, Netherlands, Belgium	£	@	|	\	\]`	'	|	|	|	~
USA, Canada, Australia	#	@	[	\	\]`	'	|	|	|	~
France, Switzerland, Belgium Luxembourg I	£	à	°	¢	§	'	é	ù	è	..
France, Switzerland, Belgium Luxembourg II	â	à	ê	¢	†	ô	é	ù	è	û
Italy, Switzerland	£	§	°	¢	é	ù	à	ò	è	ì
Sweden, Finland	#	É	Å	Ö	Ä	é	ä	ö	å	~
Denmark, Norway I	#	É	Æ	Ø	Å	é	æ	ø	å	~
Denmark, Norway II	£	@	Æ	Ø	Å	'	æ	ø	å	~
Germany, Austria, Luxembourg, Switzerland	#	§	Ä	Ö	Ü	'	ä	ö	ü	β
Spain, Argentina, Venezuela	£	@	|	Ñ	|	'	|	ñ	|	~
Portugal, Brazil	£	@	Ã	Ç	Õ	'	ã	ç	õ	~
Yugoslavia	£	Z	Ć	Č	Š	ž	ć	č	š	~

Char 1/Char 2

Character 1 will be printed if upper and lower case is selected.

Character 2 will be printed if upper case only is selected.

5 C for France I and Italy and 5 D for Italy will be capital letters when upper case only is selected.

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6374 General Terminal Printer

Print samples

9x9 Data 10 char/inch

```
ABCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?  
BCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?  
CDFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?  
DEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?  
!"#$%&'()*+,-./ :%w`_  
!"#$%&'()*+,-./ :%w`_
```

9x9 Data 12 char/inch

```
abcdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_  
bcdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_  
cdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_  
defghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_
```

18x25 Gothic 10 char/inch

```
ABCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?  
BCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?
```

18x25 Gothic 12 char/inch

```
BCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?  
CDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?  
DEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?  
!"#$%&'()*+,-./ :%w`_  
!"#$%&'()*+,-./ :%w`_
```

18x25 Gothic proportional

```
abcdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_ #§AOU`a  
bcdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_ #§AOU`aö  
cdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_ #§AOU`aöü  
defghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_ #§AOU`aöüß  
efghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_ #§AOU`aöüßø  
fghijklmnopqr stuvwxyz 0123456789:;<=>? !"#$%&'()*+,-./ :%w`_ #§AOU`aöüßø
```

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6374 General Terminal Printer

OVERLINE AND UNDERLINE

PITCH: 10 cpi

Overline Underline Low Line /5F Underlining Double Underline

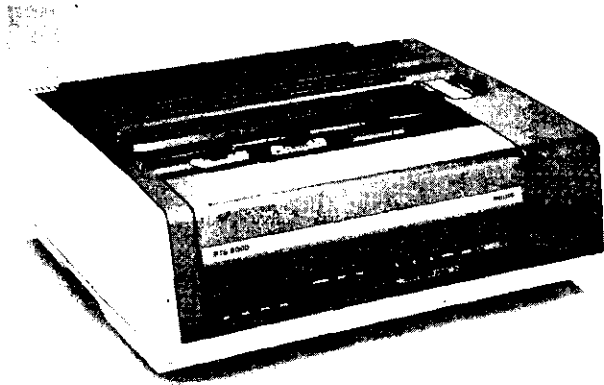
PITCH: 12 cpi

Overline Underline Low Line /5F Underlining Double Underline

PITCH: proportional

Overline Underline Low Line /5F Underlining Double Underline

Philips PTS 6375 General Terminal Printer



The Philips PTS 6375 General Terminal Printer is an alphanumerical matrix printer and workstation module in a Philips PTS 6000 workstation.

The printer is really general and can in the same installation be used both for high speed printing with normal matrix quality and high quality printout at reduced speed. This together with excellent paper handling functions makes the PTS 6375 GTP the ideal printer for the office with varying requirements like:

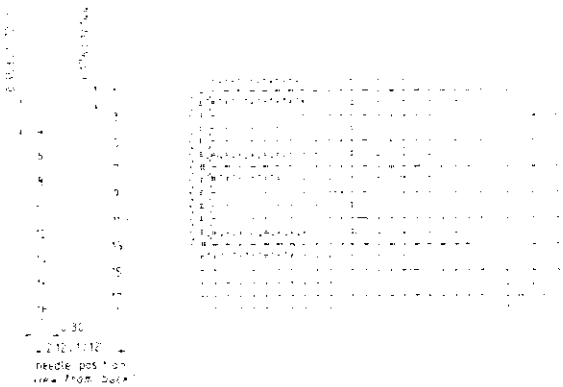
- hardcopy printing together with a display
- listing and management reporting
- ticket and label printing
- word processing

The PTS 6375 GTP can be used as a table top model or mounted on a pedestal. In both cases compactness of the unit allows it to be installed at existing locations without need of extensive rearrangements.

PRINTER DESCRIPTION

Printing Performance

The Philips PTS 6375 GTP has a printhead with 18 needles arranged in 2 columns according to figure.



This arrangement makes it possible either to print high quality upper and lower case characters as well as logotypes and other graphics in a high resolution matrix using all needles, or to print normal quality characters at a higher speed by using only one of the needle columns, i.e. 9 needles.

The design concept of the PTS 6375 provides for a great flexibility in adapting the printing to different application demands. Under control of terminal computer program the printer can be set for standard and optional character sets including national variations, for applicable character font and pitch, for line spacing, for page height and for tabulations.

The basic character set of the PTS 6375 GTP is a full set of 96 upper and lower case characters in 12 national versions. The characters can be printed in normal Data quality font (9x9 dot matrix) with 10 or 12 characters per inch and in high quality Gothic font (18x25 dot matrix) with 10 or 12 characters per inch or proportional.

Logotypes, special characters and other fonts can also be implemented as optional character generator extensions.

A high printspeed is maintained by automatically controlled bidirectional printing, and built-in automatic copy-control ensures a good printout also when additional copies are desired.

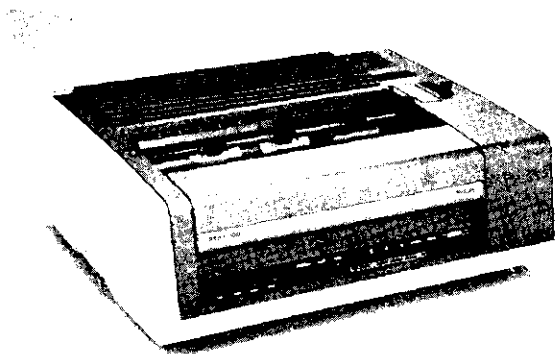
PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6375 General Terminal Printer

Document Handling

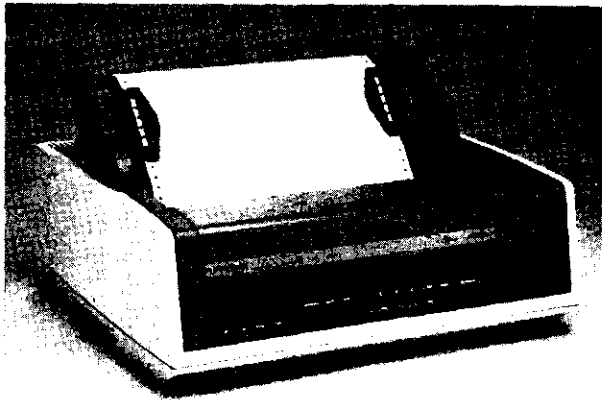
The PTS 6375 GTP has got the following paper handling possibilities

- Friction feed
- Tractor feed
- Front feed



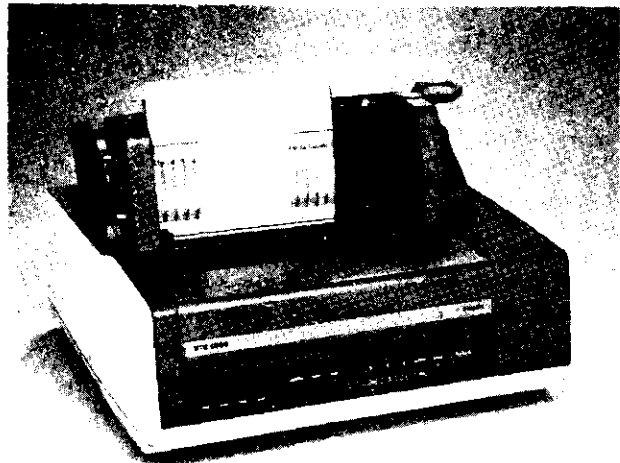
Friction feed

The basic printer is equipped with friction feed type document handling. The documents used are manually inserted.



Tractor feed

A document handler of the tractor feed type for continuous, pin fed, fan-folded paper is available as a separate field installable Tractor Feed Kit. The tractor can be adjusted to different paper widths.



Front feed

With the tractor mechanism already in place another separate unit, a field installable Front Feed Kit, can be added and used for front feeding of documents.

Operator's Panel

At the front of the printer an operator's panel is positioned. This panel is used when printer parameters are to be changed. However parameters preset from the panel are superseded by software commands.

Serviceability

The modular design of PTS 6375 GTP together with builtin selftest function ensures minimum down-time.

Options

The following options are available

- 9x7 matrix character generator for printing with 15 characters per inch
- Logotype character generator

Accessories

The following accessories and kits for field adaptation are available

- Pedestal
- Tractor Feed Kit
- Front Feed Kit
- Paper Run Detection Kit

Data subject to change without notice

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6375 General Terminal Printer

TECHNICAL SUMMARY

<i>Character font</i>				<i>Document</i>	<i>Type</i>	<i>Width</i>	<i>Height</i>
standard	9×9 dot matrix	Data quality		friction feed	Single sheet or top glued form set	105 to 340 mm	Min 70 mm
standard	18×25 dot matrix	Gothic					
option	9×7 dot matrix	Data quality		tractor feed	Continuous fan-folded paper ISO 2784	70 to 340 mm incl paper guide	101 to 305 mm between perforations
option	18×25 dot matrix	Logotype or Semigraphic		front feed	Single sheet or bottom glued form set	105 to 305 mm	148 to 330 mm
<i>Character set</i>	96 characters inclusive upper and lower case with 12 national versions (See table)			<i>Top of form function</i>	Yes		
<i>Character spacing</i>				<i>Paper low detection</i>	With tractor feed one page (A4) can be printed after paper low signal		
standard	10,12 char/inch	with 9×9 matrix		<i>Paper run detection</i>	Senses paper movements (optional addition to tractor feed)		
standard	10,12, proportional	with 18×25 matrix		<i>Interface</i>	SDI/V24		
option	15 char/inch	with 9×7 matrix		<i>Mains requirements</i>	100–130 V 200–240 V 50 or 60 Hz	±10% ±10% ± 2%	
<i>Printing speed</i>	<i>Speed</i>	<i>Pitch</i>	<i>Matrix</i>	<i>Environmental conditions</i>	<i>temperature</i>	<i>humidity</i>	<i>in operation</i> <i>storage</i>
	char/s	char/inch			+15 to +35°C	20 to 80% RH	–40 to +70°C 20 to 90% RH
	150	10	9×9	<i>Heat dissipation</i>			
	180	12	9×9	standby	Approx 50 W		
	80	10, 12	18×25	operating	Approx 160 W		
	100	proportional	18×25	<i>Dimensions</i>			
option	120	15	9×7	width	520 mm		
<i>Line spacing</i>	3, 4, 6, 8, 12, 16, 24, or 48 lines/inch			depth	445 mm		
<i>Paper adjustment</i>	48 steps/inch			height	195 mm (friction feed)		
<i>Paper feed speed</i>	4 ms/step (1/48 inch) 38 ms/single line (1/6 inch)			<i>Weight</i>	20 kg		
<i>Print platen</i>	340 mm						
<i>Left margin</i>	Selectable 0 or 20 mm						
<i>Print width</i>	Max 305 mm (12 inches)						
<i>Paper handling</i>							
standard	Friction feed						
accessory	Tractor feed						
accessory	Front feed						
<i>Number of copies</i>	1+3 automatic copy-control						

Data subject to change without notice

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6375 General Terminal Printer

Character set

	2	3	4	5	6	7
0	SP	0	a2	P	a6/a2	p/P
1	!	1	A	Q	a/A	q/Q
2	"	2	B	R	b/B	r/R
3	a1	3	C	S	c/C	s/S
4	S	4	D	T	d/D	t/T
5	%	5	E	U	e/E	u/U
6	&	6	F	V	f/F	v/V
7	'	7	G	W	g/G	w/W
8	(	8	H	X	h/H	x/X
9	)	9	I	Y	i/I	y/Y
A	*	:	J	Z	j/J	z/Z
B	+	;	K	a3	k/K	a7/a3
C	,	<	L	a4	l/L	a8/a4
D	-	=	M	a5	m/M	a9/a5
E	.	>	N	^	n/N	a10
F	/	?	O	-	o/O	

Char 1/Char 2

Character 1 will be printed if upper and lower case is selected.

Character 2 will be printed if upper case only is selected.

5 C for France I and Italy and 5 D for Italy will be capital letters when upper case only is selected.

National variations applicable to the countries:	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10
	23	40	5B	5C	5D	60	7B	7C	7D	7E
Great Britain, Netherlands, Belgium	£	@	[ \ \]	'	|	|	|	|	~	
USA, Canada, Australia	#	@	[ \ \]	'	|	|	|	|	~	
France, Switzerland, Belgium Luxembourg I	£	à	°	¢	§	'	é	ù	è	..
France, Switzerland, Belgium Luxembourg II	â	à	ê	¢	†	ô	é	ù	è	û
Italy, Switzerland	£	§	°	¢	é	ù	à	ò	è	ì
Sweden, Finland	#	É	Ä	Ö	Å	é	ä	ö	å	~
Denmark, Norway I	#	É	Æ	Ø	Å	é	æ	ø	å	~
Denmark, Norway II	£	@	Æ	Ø	Å	'	æ	ø	å	~
Germany, Austria, Luxemburg, Switzerland	#	§	Ä	Ö	Ü	'	ä	ö	ü	β
Spain, Argentina, Venezuela	£	@	[Ñ ]	'	|	|	ñ	|	~	
Portugal, Brazil	£	@	Ã	Ç	Õ	'	ã	ç	õ	~
Yugoslavia	£	Z	Ć	Č	Š	ž	ć	č	š	~

Philips PTS 6375 General Terminal Printer

Print samples

9x9 Data 10 char/inch

ABCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?
BCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?
CDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?
DEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?
!"#\$%&'()*+,-./:;<=>?
!"#\$%&'()*+,-./:;<=>?

9x9 Data 12 char/inch

abcdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?
bcdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?
cdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?
defghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?

18x25 Gothic 10 char/inch

ABCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?
BCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?

18x25 Gothic 12 char/inch

BCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?
CDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?
DEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789:;<=>?
!"#\$%&'()*+,-./:;<=>?
!"#\$%&'()*+,-./:;<=>?

18x25 Gothic proportional

abcdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?
bcdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?
cdefghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?
defghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?
efghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?
fghijklmnopqr stuvwxyz 0123456789:;<=>? !"#\$%&'()*+,-./:;<=>?

PHILIPS PTS 6000 TERMINAL SYSTEM

Philips PTS 6375 General Terminal Printer

OVERLINE AND UNDERLINE

PITCH: 10 cpi

Overline Underline Low Line /5F Underlining Double Underline

PITCH: 12 cpi

Overline Underline Low Line /5F Underlining Double Underline

PITCH: proportional

Overline Underline Low Line /5F Underlining Double Underline