

POS Printer



Dot matrix, Thermal and thermal hybrid printers

POS systems are the point of payment in the retail and service sectors. The customer pays for goods or services and receives a cash register receipt or itemized receipt as proof. Special POS printers are used for this; they print not only the customer receipt, but also a paper journal, checks, credit card slips, cash balances, etc.. The requirements of today's POS printers are diverse. Where as for some the receipt is shortterm proof that they have paid for goods, for others it is an important document for later warranty claims or as accounting-evidence for the local tax office.

Wincor Nixdorf understands the sector's specific wishes and offers a tailored portfolio of POS printers to meet them. The range covers all needs from conventional dot matrix printers to thermal printers, to the hybrid printers – a combination of dot matrix and thermal printing. All these printing technologies have their strengths. Where as dot matrix printing impresses with low-cost consumables and multi-part printing, thermal printing offers high printing speeds, the very best service life and low noise level printing. Users decide what print-

ing technology best meets their requirements.

The Premium Line printers are supplied with power from the BEETLE system unit. This connection concept allows the printer to be integrated in the BEETLE emergency power supply concept (UPS). As a result, printing can be completed properly in the event of a power failure. A separate PSU can be ordered for connection to a PC. All Wincor Nixdorf POS printers have a cash drawer interface.



The POS printers are quality products that are used worldwide and are always state-of-the-art. Whether the focus is on functionality, low foot print, design, operability, printing speed or price/performance – you will always find the right printer for your POS solution at Wincor Nixdorf. To keep the integration into your application is as simple as possible, all the printers support the ESC/POS™ control sequences. In addition, OPOS and JavaPOS components are offered.

**WINCOR
NIXDORF**

TECHNICAL DATA

The Value Line Printer TH180 is a versatile POS printer for printing receipts, coupons, vouchers and transaction documents at the POS.

The Premium Line Printer TH230+ is a single-station thermal receipt printer with an excellent print quality, high printing speed and compact design. The TH230+ impresses with its excellent ease of use and many port features.

THERMAL - PRINTERS		
	 TH180	 TH230+
Printing principle	Thermal direct	Thermal direct
▪ Paper widths (in mm) – Receipt/journal	80 / 57.5	80
▪ Printing positions (max.) – (standard/compressed)	47 / 58	44 / 56
▪ Printing speed – Monochrome receipt – Draft mode – with 2-color thermal paper	180 mm/s – –	220 mm/s 300 mm/s 110 mm/s
▪ Color receipt printing	–	with 2-color thermal paper
▪ Graphics/logo printing		✓
▪ Barcode printing incl. 2D (e.g. QR)		✓
▪ Loadable character sets		✓
▪ Receipt guillotine	Partial cut	Full and partial cut
▪ Port for cash drawer		✓
▪ Port for customer display (RS232c)	–	Option
▪ Interface options – Serial RS232c – USB – PoweredUSB – Ethernet	✓ ✓ – –	✓ ✓ ✓ ✓
▪ ESC/POS™		✓
▪ Fiscal controller (MF)	–	Model MF-TH230+
▪ Power saving features	ENERGY STAR®	PowerSavings+ (sleep mode)
▪ Power supply	built-in, 100-240 AC	24 V
▪ Dimensions (HxWxD in mm)	165 x 144 x 184	148 x 145 x 195
▪ Weight in kg (approx.)	1.7	2.0
▪ Options	–	Paper width 57.5 mm in table mounting
▪ Color options	black only	black/light gray

TECHNICAL DATA

The **TH320** is a compact hybrid printer with one of the smallest footprint's in its class. This saves the limited space at the POS. The thermal receipt station prints with high print speed of up to 250 mm/s. The impact document station is very versatile.

The **TH420** is a two-station thermal hybrid printer for printing receipts and documents. It combines thermal printing for receipts and dot matrix printing for documents in one housing. The thermal receipt station prints with up to 180mm/s. The impact document station supports a print with of up to 120 mm and can print up to 5 copies. The extra wide document table allows also the transport of A4 or Letter format documents.

For all Wincor Nixdorf hybrid printers is a wide range of interfaces from RS232 to PoweredUSB available. All those printers can also print two color receipts using special paper.

THERMAL - AND HYBRID - PRINTERS		
	TH320	TH420
Printing principle	Thermal direct (rec.) and Dot matrix (doc.)	
▪ Paper widths (in mm) – Receipt – Doc. width/length	80 >70 / > 51	
▪ Document copies	77 mm (3")	120 mm (4.7")
▪ Document printing width	4	5
▪ Printing positions (max.) – Receipt (standard/compressed)	44 / 56	
– Document (standard/copressed)	42 / 51	66 / 88
▪ Printing speed – Monochrome receipt – Draft mode – with 2-color thermal paper – Documents	250 mm/s – 100 mm/s 4.8 lines/s	180 mm/s –
▪ Color receipt printing	with 2-color thermal paper	
▪ Graphics/logo printing	✓	
▪ Barcode printing	✓	
▪ Loadable character sets	✓	
▪ Receipt guillotine	✓	
▪ Port for cash drawer	✓	
▪ Port for customer display (RS232c)	–	
▪ Interface options – Serial RS232c – USB – PoweredUSB – Ethernet	✓ (✓) (✓) –	
▪ ESC/POS™	✓	
▪ Fiscal controller (MF)	Model MF-EJ320	–
▪ Power supply	24 V	
▪ Dimensions (HxWxD in mm)	168 x 165 x 290	178 x 229 x 264
▪ Weight in kg (approx.)	3.8	4.8
▪ Color options	black/light gray	



Services

Wincor Nixdorf's fast, professional manufacturer service is available as an option for the POS printers as part of the complete solution offer. Tailored services enable the highest possible system availability and security worldwide due to standardized service processes and efficient remote management based on the Wincor Nixdorf eServices Platform®.

TECHNICAL DATA

The **ND77** use tried-and-tested needle printing technology. It is robust and easy to operate and have an excellent price/performance ratio.

It has a powered RS232c port for connecting the BA63 and BA66 customer displays.

The POS printer has three printing stations, and thus offers receipt, journal, form and check printing functions.

DOT MATRIX PRINTER



ND77

Printing principle	9 needles, serial matrix printing
Print stations	3 (receipt, journal, document)
<ul style="list-style-type: none"> ▪ Paper widths (in mm) <ul style="list-style-type: none"> – Receipt/journal – Doc. width/length 	69.5 (57.5 with optional adapter) > 70 / > 70
<ul style="list-style-type: none"> ▪ Document copies 	4
<ul style="list-style-type: none"> ▪ Printing positions (max.) <ul style="list-style-type: none"> – Receipt/journal – Document 	40 88
<ul style="list-style-type: none"> ▪ Printing speed <ul style="list-style-type: none"> – Receipt or journal: – Receipt and journal: – Document: 	6 lines/s 6 lines/s 3 lines/s
<ul style="list-style-type: none"> ▪ Graphics/logo printing 	✓
<ul style="list-style-type: none"> ▪ Loadable character sets 	✓
<ul style="list-style-type: none"> ▪ Loadable character sets that can be loaded into the flash (resident) 	✓
<ul style="list-style-type: none"> ▪ Receipt guillotine 	✓
<ul style="list-style-type: none"> ▪ Port for cash drawer 	✓
<ul style="list-style-type: none"> ▪ Port for customer display (RS232c) 	✓
<ul style="list-style-type: none"> ▪ System interface 	RS232c
<ul style="list-style-type: none"> ▪ ESC/POS™ 	✓
<ul style="list-style-type: none"> ▪ Fiscal controller (MF) 	optional
<ul style="list-style-type: none"> ▪ Power supply 	24 V
<ul style="list-style-type: none"> ▪ Dimensions (Hx WxD in mm) 	215 x 251 x 280
<ul style="list-style-type: none"> ▪ Weight in kg (approx.) 	6

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