

# Professional 4 inch desktop label printers

TD Series

[www.brother.eu](http://www.brother.eu)



# Versatile, high-resolution desktop printers



Brother's range of TD professional label printers offer the ability to print high quality labels on demand, whatever the requirement. Printing labels up to 4 inches in width, and with direct thermal and thermal transfer print technology, they fit the requirements of a large range of vertical market applications.



TD professional  
desktop label printers



## Seamless Integration

Brother's new high specification 4 inch desktop label printers bring you improved operational efficiency with easy to use, high speed and continuous label printing. Combined with seamless integration and modular design, print from virtually anywhere in the workplace. Supporting a variety of printer command languages including ZPL II emulation allows you to integrate into existing legacy systems.



# Professional label printing



**BLOOD SAMPLE  
BOTTLES**

Labels are often required to display a considerable amount of important information, so you need a printer that can put it all together efficiently, with consistent, high-quality results.

The TD Series of desktop label printers offers direct thermal and thermal transfer high speed printing, at up to 300 dpi resolution. Options include a peeler or automatic cutter, for producing continuous media to your required length on demand.

The software supports barcode printing, embellish font programming for highlighting specific words, and also allows you to import graphics and date formats for a truly personalised solution.



## Printing Technology

### Direct Thermal

Low-cost, high-volume labels can be created through this process, which uses a heat-sensitive coating and thermal print head, meaning traditional printing ribbons and ink are not required. Ideal for shorter term and less permanent labelling uses.

### Thermal Transfer

Crisp, durable printing is achieved through a process in which the ink is absorbed into the label, making it ideal for applications that require robust, harder-wearing labels.

# Healthcare, medical and laboratory



With the strict regulations on the tracking of patient specimens and other items within the healthcare industry, clear, high quality labelling is essential to maintain safety and traceability.

## Applications include:

- Appointment cards
- Admission labels
- Specimen and pathology labels
- Blood bag labels
- Laboratory labels
- Microbiology labels
- Dosage/drug bag labels



# Warehousing and logistics



Efficient warehousing operation and worker productivity are critical to the success of many companies. With the most common sizes of shipping labels available and the ability to create custom size labels there are many uses for these models in the warehouse.

## Applications include:

- Shipping labels
- Carton labels
- Location labels
- Pallet identification labels
- Quality control labels
- Compliance labels



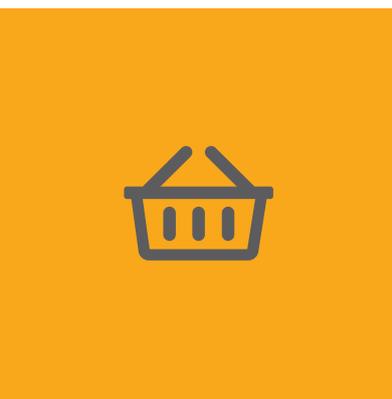
# Retail



Easy to read labels are essential for consumers to help make informed decisions prior to a potential purchase. The high print resolution and high quality labels used in this range ensure that every output printed looks professional, offering sharp text, logos and barcodes with a high contrast to ensure faultless scanning at the checkout.

## Applications include:

- Pricing labels
- Barcode labels
- Pre-packaged food ingredients labels
- Nutrition information labels
- Shelf-edge labels
- Sale/mark-down/discount pricing labels



# TD Range

## brief summary

TD-4000	TD-4100N	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
<b>4 Inch</b>							

### Printing

Print technology	Direct thermal			Thermal Transfer/ Direct Thermal	
Print speed	110mm/sec	203mm/sec	152mm/sec	152mm/sec	127mm/sec
Resolution	300dpi	203dpi	300dpi	203dpi	300dpi
Max print width	98.6mm	104.1mm	108.4mm	108mm	105.7mm
Min print length	25.4mm	Continuous: 6.4 mm, Peeler: 12.7 mm, Cutter: 20 mm, Tear: 27 mm			Peeler: 25.4 mm, Cutter: 25.4 mm Tear: 50 mm
Max print length	3000mm			25,400mm	11,430mm
Media sensor type	Gap (Transmissive)	Gap (Transmissive), Bar (Reflective)			
Media sensor location	Gap (Fixed)	Gap (Fixed), Reflective (Adjustable)			
Tear off release mode	Manual/Auto cutter	Standard: Continuous, Tear off    Optional: Peeler, Cutter			

### Connectivity

USB	●	●	●	●	●	●	●
Serial	●	●	●	●	●	●	●
Wired LAN		●		●	●	●	●
USB Host Port					●	●	●
Bluetooth					●		
Wireless LAN					●		

### General

Dimensions (mm)	173(w) x 229(d) x 158(h)		180(w) x 224(d) x 155(h)		204(w) x 280(d) x 178(h)	
Weight	1.81kg	1.83kg	2.08kg		2.5kg	
Control panel	3 button 1 LED		3 button 3 LED		7 button 3 LED	1 button 1 LED with 3 colours
LCD					●	
Operating system support	Windows XP/Vista 7/8/10, Linux	Windows XP/Vista 7/8/10, Windows Server 2008/ 2008R2, Linux	Windows 7/8/8.1/10 Linux	Windows 7/8/8.1/10, Windows Server 2008/2008R2/2012/2012R2/2016 Linux		Windows 7/8/8.1/10, Windows Server 2008/2008R2/ 2012/2012R2/2016  OS X 10.10.x,10.11.x macOS 10.12.x, 10.13.x, 10.14.x Linux
Supported commands	P-touch Template, ESC/P		P-touch Template, ESC/P, Raster, ZPL II emulation, CPCL emulation			FBPL-EZD (EPL, ZPL, ZPL II, DPL) emulation

# TD-4D Accessories and consumable supplies

Brother has designed and engineered a wide range of accessories to help customise the solution to meet your specific labelling requirements. Brother accessories help users equip their device to cope with the specific requirements of use.

## TD-4D Additional Options

### PA-LP-002

TD-4D series only  
**Label Peeler**

TD-4410D  
TD-4420DN  
TD-4520DN  
TD-4550DNWB



### PA-CU-001

TD-4D series only  
**Cutter**

TD-4410D  
TD-4420DN  
TD-4520DN  
TD-4550DNWB



### PA-HU2-001

TD-4D series only  
**Thermal Print Head (203dpi)**

TD-4410D  
TD-4420DN



### PA-HU3-001

TD-4D series only  
**Thermal Print Head (300dpi)**

TD-4520DN  
TD-4550DNWB



### PA-PR2-001

TD-4D series only  
**Platen Roller (203dpi)**

TD-4410D  
TD-4420DN



### PA-PR3-001

TD-4D series only  
**Platen Roller (300dpi)**

TD-4520DN  
TD-4550DNWB



## TD-4D Consumables

RD Rolls	Size	Quantity	Colour	Item No
Continuous receipt roll	102mm x 27.7m	n/a	White	RD-M01E5
Continuous receipt roll	76mm x 35.3m	n/a	White	RD-P08E5
Continuous receipt roll	58mm x 86m	n/a	White	RD-S07E5
Continuous receipt roll	58mm x 12m	n/a	White	RD-R03E5
Continuous label roll	102mm x 44.7m	n/a	White	RD-S01E2
Die cut labels roll	102mm x 50mm	843 labels	White	RD-S03E1
Die cut labels roll	102mm x 152mm	72 labels	White	RD-M03E1
Die cut labels roll	102mm x 152mm	281 labels	White	RD-S02E1
Die cut labels roll	76mm x 26mm	1564 labels	White	RD-S04E1
Die cut labels roll	76mm x 44mm	335 labels	White	RD-P09E1
Die cut labels roll	51mm x 26mm	1564 labels	White	RD-S05E1
Die cut labels roll	51mm x 26mm	450 labels	White	RD-Q04E1



# TD-4T Accessories

## and consumable supplies

### TD-4T Additional Options

#### PA-LP-003

TD-4T series only  
**Label Peeler\***

TD-4420TN  
TD-4520TN



#### PA-CU-002

TD-4T series only  
**Full & Partial Cutter\***

TD-4420TN  
TD-4520TN



#### PA-RH-001

TD-4T series only  
**External Roll Holder**

TD-4420TN  
TD-4520TN



\* Dealer option

### TD-4T Consumables

TD-4T Rolls	Size	Quantity	Colour	Item No
Uncoated thermal transfer die cut labels	102mm x 74mm	1,000	White	BUS-1J074102-121
Uncoated thermal transfer die cut labels	102mm x 150mm	500	White	BUS-1J150102-121
Coated thermal transfer die cut labels	102mm x 74mm	1,000	White	BCS-1J074102-121
Coated thermal transfer die cut labels	102mm x 150mm	500	White	BCS-1J150102-121

TD-4T Ribbons	Width	Length	Substrate compatibilities	Item No
Standard wax	110mm / 4.33 inch	300m	Coated/uncoated paper and tags, high gloss paper	BWS-1D300-110
Premium wax	110mm / 4.33 inch	300m	Coated/uncoated paper and tags, high gloss paper, economy synthetics	BWP-1D300-110
Standard wax/resin	110mm / 4.33 inch	300m	Coated/uncoated paper and tags, high gloss paper, economy synthetics	BSS-1D300-110
Premium wax/resin	110mm / 4.33 inch	300m	Coated/uncoated paper and tags, high gloss paper, synthetics	BSP-1D300-110
Standard resin	110mm / 4.33 inch	300m	Coated papers and tags, synthetics, textures	BRS-1D300-110
Premium resin	110mm / 4.33 inch	300m	Economy and speciality synthetics	BRP-1D300-110

For additional consumable options please contact your local Brother office.





With label design apps for desktop PC's and mobile devices, and SDK's to integrate the TD range into your own applications, you can choose the best option for your label printing needs.

Brother provides all the necessary tools required for software developers to integrate printing into their applications. Printer drivers are available for Windows OS, and Software Development Kits can be provided to support Windows Mobile\*, Android and iOS operating systems.

## Software Support Features

### P-touch Editor

Supplied as standard, you can create your own custom labels with pixel precision by using this powerful software solution. With features such as support for over 15 barcode protocols, advanced image dithering to print high quality grayscale images, and the ability to link to data contained in Excel spreadsheets for batch printing of labels, any label design is possible.

### Crop Function

Built into the Windows driver, this function helps take away the inconvenience of using A4 sheets of labels in your standard printer. This clever feature automatically scans through the document and where a barcode is present it extracts shipping or product labels one at-a-time then prints as individual on the Brother label printer.

### Template Mode

Design the required document on your Windows PC, including logos and barcodes. Once transferred and stored in the printer's memory, the template can be recalled and any data replaced, before printing with just a few short commands.

### Mobile Deploy

Cloud-based app for mobile devices (iOS and Android™), which allows IT administrators to remotely update and configure multiple Brother mobile printers. Using Mobile Deploy, the administrator can easily upload new update packages to an online location, and then share the URLs with the users.

### Printer Commands

With support for ZPL II emulation and a variety of additional printer command languages, developers can easily integrate printing into existing legacy systems (see specification tables for further details).

### Software Development Kits (SDK's)

Brother can also supply a selection of free of charge Software Development Kits to give you an easy method of incorporating label printing directly from within your own software programs.

Available from: <https://www.brother.eu/developer>

Compatibility may vary dependent on model - check table on following page





## Software

Model No	TD-4000	TD-4100N	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
P-touch Editor	✓	✓	✓	✓	✓	✓		
Mobile Deploy App						✓		
Brother Font Manager			✓	✓	✓	✓		
Printer Settings Tool			✓	✓	✓	✓		
Bartender Ultra Lite Edition							✓	✓
Brother Printer Management Tool							✓	✓
Crop Function (Windows Driver)					✓	✓		

For further details visit : <https://support.brother.com>

# The Range in detail

TD-4000	TD-4100N	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
<b>4 Inch</b>							

## Printing

Print technology	Direct thermal					Thermal Transfer/ Direct Thermal	
Print speed	110mm/sec	203mm/sec	152mm/sec	152mm/sec	127mm/sec		
Resolution	300dpi	203dpi	300dpi	203dpi	300dpi		
Max. print width	98.6mm	104.1mm	108.4mm	108mm	105.7mm		
Min. print length	25.4mm	Continuous: 6.4mm, Peeler: 12.7mm, Cutter: 20mm, Tear: 27mm			Peeler: 25.4mm, Cutter: 25.4mm Tear: 50mm		
Max. print length		3000mm			25,400mm	11,430mm	
Media sensor type	Gap (Transmissive)		Gap (Transmissive), Bar (Reflective)				
Media sensor location	Gap (Fixed)		Gap (Fixed), Reflective (Adjustable)				
Tear off release mode	Manual/Auto cutter		Standard: Continuous, Tear off Optional: Peeler, Cutter				

## Media

Media types	Receipt (non-coated & coated) Die cut label Continuous length label	Wristbands, Continuous, Die cut, Fan fold, Perforated, Tag					
Media thickness	Without Adhesive: 0.08mm - 0.155mm (0.003 inch to 0.006 inch) With Adhesive: 0.08mm - 0.170mm (0.003 inch to 0.007 inch)	0.058mm - 0.279mm (0.002 inch to 0.011 inch)			0.06 - 0.19 mm (0.002 inch to 0.007 inch)		
Media width	19mm - 105.6mm (0.7 inch to 4.16 inch)	19mm - 118.11 mm (0.75 inch to 4.65 inch)			20 - 112mm (0.79 inch to 4.41 inch)		
Media length		6.4mm - 3,000 mm (0.25 inch to 118.11 inch)			5mm - Max. print length (0.20 inch to Max inch)		
Diameter (Max)	101.6mm (4 inch)	127mm (5 inch)			127mm (5 inch)		
Core Diameter (Max)	25.4mm (1inch)	12.7mm (0.5 inch)			25.4mm & 38.1mm (1.0 inch & 1.5 inch)		

## Ribbon

Types		Wax, Wax/Resin, Resin
Wound type		Outside wound
Ribbon width		40 - 110 mm (1.57 inch to 4.33 inch)
Suggested paper core width		0.5 inch paper core: fixed width 110mm, width 2 notches in each side 1inch paper core: fixed width 110mm with 2 notches in each side 1inch paper core: paper core width is the same as ribbon width and use with ribbon spindles
Inner paper core & ribbon length		0.5 inch paper core: Max. OD 40mm, 110m length 1inch paper core: Max. OD 67mm, 300m length

## Connectivity

USB	USB version 2.0 (full speed) Type B							
USB host capability						Yes	Yes	Yes
Serial	RS232C		Serial RS232C (DB9 male)			Serial RS232C (DB9 female)		
Wired LAN	Not supported	10/100BASE-TX	10/100BASE-TX			10/100BASE-TX		
USB host port						Yes	Yes	Yes
Bluetooth						Version 4.2		
Bluetooth profile						SPP, OPP, HCRP Bluetooth Classic, GATT (Bluetooth Low Energy)		
Wireless LAN						802.11a/b/g/n		
Wireless LAN security						Authentic method (encryption scheme) Infrastructure mode- Open system (None/ WEP64/WEP128) Common key authentication (WEP) WPA/WPA2- PSK (TKIP+AES), EAP-FAST (TKIP/AES), PEAP (TKIP/AES), EAP-TLS (TKIP/AES), EAP-TTLS (TKIP/AES) Authentic method (encryption scheme) Wireless direct mode -WPA2-PSK (AES)		
MFI support	No	No	No	No	No	Yes	No	No
AirPrint	No	No	No	No	No	Yes	No	No
Wired LAN	No	Yes	No	Yes	Yes	Yes	Yes	Yes

TD-4000	TD-4100N	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
<b>4 Inch</b>							

## General

Control panel	3 button 1 LED	3 button 3 LED	7 button 3 LED	1 button 1 LED with 3 colours
LCD type	Mono			

## Power

Adapter	AC adapter (100 - 240V 50/60Hz)			AC adapter Input: AC 100-240V, 2.0A, 50-60Hz Output: DC24V, 2.5A, 60W, LPS
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## Software

Operating system support	Windows XP/Vista 7/8/10, Linux	Windows XP/ Vista 7/8/10, Windows Server 2008/2008R2/ 2012/2012R2, Linux	Windows 7/8/8.1/10 Linux	Windows 7/8/8.1/10 Windows Server 2008/2008R2/2012/2012R2/2016 Linux	Windows 7/8/8.1/10, Windows Server 2008/2008R2/2012/2012R2/2016 OS X 10.10.x,10.11.x macOS 10.12.x,10.13.x,10.14.x Linux
Supported printer commands	P-touch Template, ESC/P		P-touch Template, ESC/P, Raster, ZPL II emulation, CPCL emulation		FBPL-EZD (EPL,ZPL,ZPL2,DPL) emulation
Barcode symbologies	CODE39, CODE128, UCC/EAN-128(GS1-128), ITF(I-2/5), CODABAR(NW-7), UPC-A, UPC-E, EAN13(JAN13), EAN8, GS1 DataBar(RSS) (GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked), PDF417(Standard, Truncate, Micro), QR Code(Model 1, Model 2, Micro), Data Matrix (ECC200 Square, ECC200 Rectangular), MaxiCode		Linear: CODE 39, ITF(I-2/5), EAN-8(JAN8), EAN-13(JAN13), UPC-A, UPC-E, CODABAR (NW-7), CODE 128, GS1-128(UCC/EAN 128), GS1 Databar (Standard (Omnidirectional)/Truncated/Stacked/Stacked Omnidirectional/ Limited/Expanded), CODE93, POSTNET, UPC/EAN EXTENSION, MSI, Intelligent Mail Barcode 2-dimensional: QR Code (model 1, model 2, micro QR), Maxicode, PDF417 (Standard, Truncate, Micro/PDF417) Data Matrix (ECC200 Square, ECC200 Rectangular) Aztec		Linear: Code128UCC, Code128 subsets A, B, C, EAN128, Interleaved 2 of 5, Interleaved 2 of 5 with check digit, Code39, Code39 with check digit, Code93, EAN13, EAN8, UPCA, UPCE, EAN and UPC 2 (5) digits add-on, Codabar, Postnet, MSI, MSI with check digit, PLESSEY, China post, ITF14, Code11, TELEPEN, TELEPENN, PLANET, Code49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS  2-dimensional: GS1 DataBar, GS1 DataMatrix, Maxicode, AZTEC, PDF417, QR Code, Micro PDF 417
Internal fonts	Bitmap fonts: Helsinki, Brussels, Letter Gothic Bold, San Diego, Brougham  Outline fonts: Helsinki, Brussels, Letter Gothic		ESC/P> Bitmap font: LetterGothicBold (16,24,32,48dot), Helsinki (16,24,32,48dot), Brussels (24,32,48dot), Brougham (24,32,48dot), San Diego (24,32,48dot), Gothic (16,24,32dot) Outline font: LetterGothicRegular, Helsinki, Brussels, Gothic (1 – 400dots) <P-touch Template> Outline font: LetterGothicRegular, Helsinki, Brussels, Gothic (1 – 400dots) Downloadable font support* via Font Manager software		8 alpha-numeric bitmap fonts for FBPL Monotype Image® true type font engine with one CG Triumvirate Bold Condensed scalable font

## Memory

RAM	8MB	16MB	256MB	64MB
Flash	8MB	8MB	64MB	128MB

## Environmental

Operating temperature	Operate: 10°C to 35°C	Operate: 5°C to 40°C	Operate: 5°C to 40°C
Operating humidity	20 - 80% (No condensation)	20 - 85% (No condensation, Max wet bulb temperature: 27°C)	25 - 85% non-condensing
Storage temperature		-20°C to 60°C	-40°C to 60°C
Storage humidity		10 - 90% (No condensation)	10 - 90% non-condensing

## Weights & Dimensions

Dimensions (mm)	173(w) x 229(d) x 158(h)	180(w) x 155(d) x 224(h)	204(w) x 280(d) x 178(h)
Weights	1.81kg	1.83kg	2.08kg

## Included Items

Supplied in box	102mm continuous black on white label roll (2 metre starter roll) 51 mm x 26 mm black on white die cut label roll (60 labels) AC cord, USB cable CD-ROM containing software, drivers and user guide	AC adaptor & cord, USB cable, documentations	AC adaptor & cord, USB cable, documentations. Pair of 1" Ribbon spindles for 300M ribbon 1" ribbon paper core
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\* Font licensee permissions are required.

# brother

at your side

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