

Professional 4 inch desktop thermal printers

TD4 Series

brother.co.uk/labelling/td-labeller



Versatile, high-resolution desktop printers

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



TD professional
desktop thermal
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

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 thermal printers offers direct thermal and thermal transfer high speed printing, at up to 300dpi 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.



Healthcare, medical and laboratory



Direct thermal print technology

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

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.

Thermal transfer print technology

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, longer lasting 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 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
- Price markdown labels.





TD Range brief summary

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

4 Inch

Printing

Print technology	Direct thermal		Thermal transfer/ direct thermal	
	Print speed	203mm/sec	152mm/sec	152mm/sec
Resolution	203dpi	300dpi	203dpi	300dpi
Max. print width	104.1mm	108.4mm	108mm	105.7mm
Min. print length	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), bar (reflective)			
Media sensor location	Gap (fixed), reflective (adjustable)			
Tear off release mode	Standard: continuous, tear off Optional: peeler, cutter			

Connectivity

USB	●	●	●	●	●	●
Serial	●	●	●	●	●	●
Wired LAN		●	●	●	●	●
USB host port				●	●	●
Bluetooth				●		
Wireless LAN				●		

General

Dimensions (mm)	180(w) x 224(d) x 155(h)		204(w) x 280(d) x 177.5(h)	
Weight	2.08kg		2.5kg	
Control panel	3 button 3 LED		7 button 3 LED	1 button 1 LED with 3 colours
LCD			●	
Operating system support	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, Raster, ZPL II emulation, CPCL emulation		P-touch Template, ESC/P, Raster, ZPL II emulation, CPCL emulation, EPL	

TD-4D Accessories and consumable supplies

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

TD-4D Additional options

PA-LP-002 Label peeler	PA-CU-001 Cutter	PA-HU2-001 Thermal print head (203dpi)	PA-HU3-001 Thermal print head (300dpi)	PA-PR2-001 Platen roller (203dpi)	PA-PR3-001 Platen roller (300dpi)
TD-4410D TD-4420DN TD-4520DN TD-4550DNWB	TD-4410D TD-4420DN TD-4520DN TD-4550DNWB	TD-4410D TD-4420DN	TD-4520DN TD-4550DNWB	TD-4410D TD-4420DN	TD-4520DN TD-4550DNWB
					

TD-4D Consumables

RD rolls	Size	Label 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	White	RD-S03E1
Die-cut labels roll	102mm x 152mm	72	White	RD-M03E1
Die-cut labels roll	102mm x 152mm	281	White	RD-S02E1
Die-cut labels roll	76mm x 26mm	1564	White	RD-S04E1
Die-cut labels roll	76mm x 44mm	335	White	RD-P09E1
Die-cut labels roll	51mm x 26mm	1564	White	RD-S05E1
Die-cut labels roll	51mm x 26mm	450	White	RD-Q04E1



TD-4T Accessories and consumable supplies

TD-4T Additional options

PA-LP-003 Label peeler*	PA-CU-002 Full and partial cutter*	PA-RH-001 External roll holder
TD-4420TN TD-4520TN	TD-4420TN TD-4520TN	TD-4420TN TD-4520TN
		

* Dealer install only



TD-4T Consumables

Rolls	Size	Quantity	Colour	Item No
Uncoated die-cut labels roll	105mm x 74mm	950 labels	White	TT-G105074-12LF
Uncoated die-cut labels roll	105mm x 148mm	470 labels	White	TT-G105148-12LF
Coated die-cut labels roll	105mm x 74mm	950 labels	White	TT-G105074-13LF
Coated die-cut labels roll	105mm x 148mm	470 labels	White	TT-G105148-13LF

Ribbons	Width	Length	Substrate compatibilities	Item No
Standard wax	110mm / 4.33 inch	300m	Coated/uncoated paper and tags, high gloss paper	35-W110300-20FA
Premium wax	110mm / 4.33 inch	300m	Coated/uncoated paper and tags, high gloss paper, economy synthetics	35-W110300-20FB
Standard wax/resin	110mm / 4.33 inch	300m	Coated/uncoated paper and tags, high gloss paper, economy synthetics	35-S110300-20FC
Premium wax/resin	110mm / 4.33 inch	300m	Coated/uncoated paper and tags, high gloss paper, synthetics	35-S110300-20FD
Standard resin	110mm / 4.33 inch	300m	Coated papers and tags, synthetics, textures	35-R110300-20FE
Premium resin	110mm / 4.33 inch	300m	Economy and speciality synthetics	35-R110300-20FF

For additional consumable options please contact your Brother account manager.





Software, support and features

Mobile Deploy

Mobile Deploy is a cloud-based app that performs a complete printer configuration using a smart phone or tablet. The update process is easy. With a simple push of a button by the printer operator, Mobile Deploy transfers the full update and configuration. Companies can now maintain and update their entire fleet of Brother mobile printers simultaneously and instantaneously with a click of a button!



Simple setup

Simply install the app on the devices and load the URL provided by your administrator.

Simultaneous distribution

Post once and all printers in the field get updated.

Auto update check

The app automatically checks for updates that have been posted.

Complete updates

Firmware, settings, fonts, and templates can all be updated.

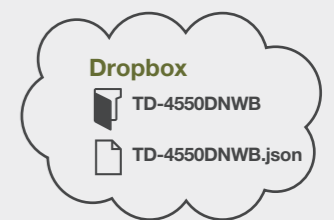
Work of the administrator

1. Prepare files

Personal computer

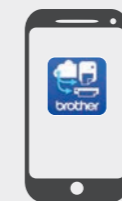


2. Put files in Dropbox

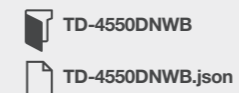


Work of the operators

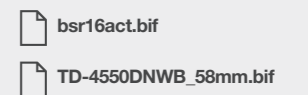
3. Introduce the procedure by e-mail



Mobile device (iPhone/iPad, Android™)



Printer



4. Perform multiple settings in one batch with Mobile Deploy (after downloading the files from Dropbox, transmit the bif files to the printer).

More information can be found here:





With label design apps for desktop PCs and mobile devices, and SDKs 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 and 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 individually 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.

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 (SDKs)

Brother can also supply a selection of free of charge SDKs 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 below

Software compatibility

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>

BarTender Ultra Lite edition included with TD-4420TN and TD-4520TN.

The range in detail

TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
4 Inch					

Printing

Print technology	Direct thermal		Thermal transfer/ direct thermal	
Print speed	203mm/sec	152mm/sec	152mm/sec	105mm/sec
Resolution	203dpi	300dpi	203dpi	300dpi
Max. print width	104.1mm	108.4mm	108mm	105.7mm
Min. print length	Continuous: 6.4mm, peeler: 12.7mm, cutter: 20mm, tear: 27mm		Peeler: 25.4 mm, cutter: 25.4mm tear: 50mm	
Max. print length	3000mm		25,400mm	11,430mm
Media sensor type	Gap (transmissive), Bar (reflective)			
Media sensor location	Gap (fixed), Reflective (adjustable)			
Tear off release mode	Standard: Continuous, tear off Optional: Peeler, cutter			

Media

Media types	Wristbands, continuous roll, die-cut, fan fold, perforated, tag			
Media thickness	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 - 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)			
Diameter (max.)	127mm (5 inch)		127mm (5 inch)	
Core diameter (max.)	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 1 inch paper core: fixed width 110mm with 2 notches in each side 1 inch paper core: paper core width is the same as ribbon width and use with ribbon spindles			
Inner paper core and ribbon length	0.5 inch paper core: Max. OD 40mm, 110m length 1 inch paper core: Max. OD 67mm, 300m length			

Memory

RAM	256MB	64MB
Flash	64MB	128MB

Environmental

Operating temperature	Operate: 5°C to 40°C	Operate: 5°C to 40°C
Operating humidity	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 and dimensions

Dimensions (mm)	180(w) x 155(d) x 224(h)	204(w) x 178(d) x 280(h)
Weights	2.08kg	2.5kg

Included items

Supplied in box	AC adaptor and cord, USB cable, documentations	AC adaptor and cord, USB cable, documentations. Pair of 1" Ribbon spindles for 300M ribbon 1" ribbon paper core
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TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
4 Inch					

Connectivity

USB	USB version 2.0 (full speed), Type B				
USB host capability			Yes	Yes	Yes
Serial	Serial RS232C (DB9 male)			Serial RS232C (DB9 female)	
Wired LAN	Not supported	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			Yes		
AirPrint			Yes		
Wired LAN			Yes	Yes	Yes

General

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

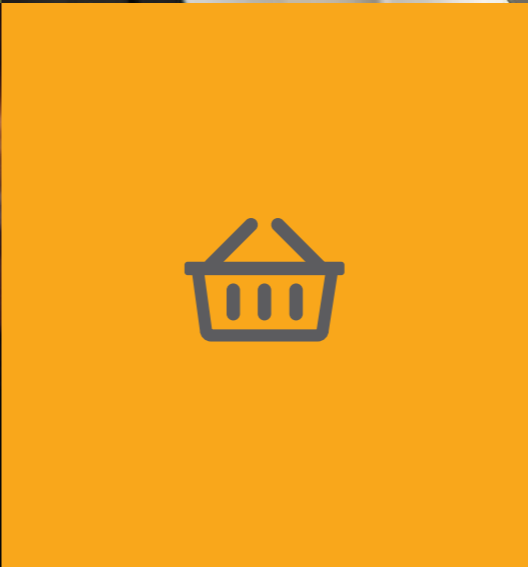
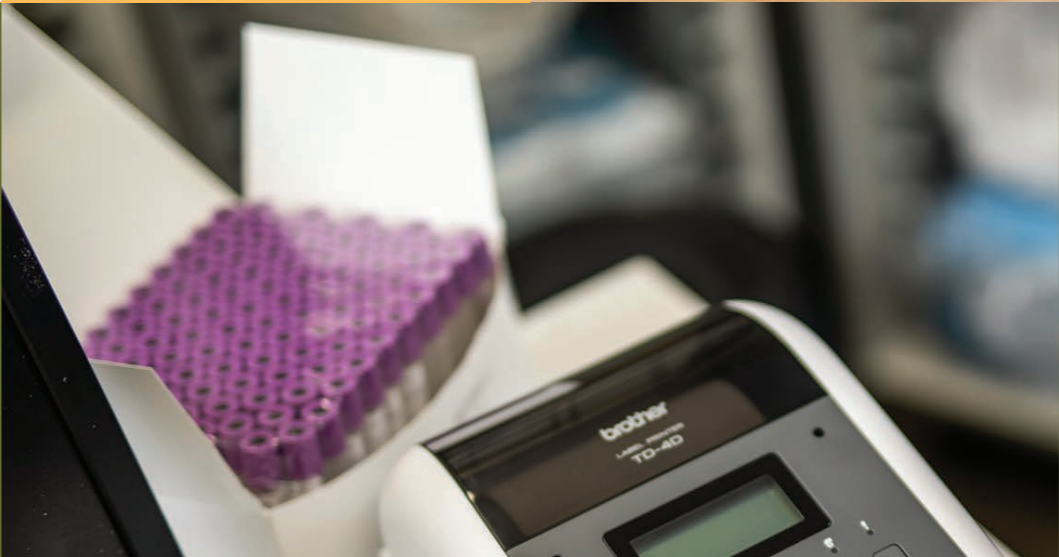
Power

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 7/8.1/10 Linux	Windows 7/8.1/10 Windows Server 2008/2008R2/2012/2012R2/2016 Linux	Windows 7/8.1/10, 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, Raster, ZPL II emulation, CPCL emulation		FBPL-EZD (EPL,ZPL,ZPL2,DPL) emulation
Barcode symbologies	Linear: CODE 39, ITF(-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, MicroPDF417) Data Matrix (ECC200 Square, ECC200 Rectangular) Aztec		
Internal fonts	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

* Font licensee permissions are required.



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at your side

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