The perfect mix of performance and smarts

BradyPrinter i5100 Industrial Label Printer

The perfect mix of performance and smarts

When you're looking for a printer with the fundamental printing capabilities for the work you need to get done every day, look no further than the BradyPrinter i5100 Industrial Label Printer. You'll get the perfect combination of high-volume performance and smart printing technology to make high-mix printing easier throughout your facility.

It's easy to see how the i5100 printer makes industrial printing easier with:

Simple setting changes:

The intuitive touchscreen allows you to quickly and easily change settings on your printer. Full-performance printing: This printer provides all the essential features you need for high-performance printing.

Intelligent Print (IP) technology:

Take the guesswork out of material changeovers and set up with materials and software that communicate with the printer so you can get back to work faster.

Smart loading design:

Changing out materials is fast and easy with the specially designed ribbon spindles, and auto-centering roll holders that lock into place without any clumsy extra steps.

Hardware options:

You'll get a variety of connection ports to stay connected any way you need to and you'll get interchangeable rollers to optimise printing on a variety of material widths.

The complete BradyPrinter i5100 solution:

BradyPrinter i5100
INDUSTRIAL LABEL PRINTER

1 ▶ Top-loading design

Reduces footprint in your workspace and simplifies media alignment and loading

2 ▶ Ribbon takeup spindle

Both spindles are keyed for guaranteed correct ink-side orientation and slip quickly into place with no complicated ribbon thread-through, no axles to loosen or tighten and no separate cardboard core needed

3 ▶ Print head

300 or 600 dpi print heads are interchangeable through the Brady service department so you can change your print resolution if your needs change

4 ▶ Media guide adjustment (center-aligned media)

A simple turn of the dial auto-centers the media guides from 5.1 mm to 114 mm widths

5 ▶ Sensors

Both the gap and notch sensors are easy to adjust, and with IP-enabled media rolls, sensors are auto-detected and the correct settings are displayed for the user

6 ▶ Colour touchscreen control panel

Icons and sliders for easy printer setting adjustments and information about parts when using Brady IP-enabled rolls

7 ▶ Roll holder with label part detection

Printer auto-detects IP-enabled label rolls to communicate part set up information to both printer and Brady software. Holds 75mm core roll

8 ▶ Ribbon cog with ribbon part detection

Printer auto-detects IP-enabled ribbon part and communicates ribbon information to the user and warns if the incorrect ribbon is used

9 ▶ Interface options

2x USB, USB 2.0, RS-232C, Ethernet and SD card (back of printer)

10 ▶ Print roller

Green synthetic rubber rollers available in 4 widths and can be replaced by the user if worn, or to pair a narrow roller with narrow media

11 ▶ Integrated auto-cutter (optional model)

Built-in cutter for complete cut through of approved media

Quickly and easily change printer settings

Make changes quickly and easily on the BradyPrinter i5100 with its intuitive touchscreen. Colourful icons, buttons and sliders allow you to navigate between screens, make printer setting changes and view the printer status with ease. The easy-to-use interface also includes responsive prompts and embedded how-to videos.

Full-performance printing from start to finish

With the fundamental printing capabilities you need to get the job done, this printer will be your high-volume, high-mix workhorse on the most common industrial materials. This printer has robust processing power to handle the high-volume jobs you send to it, and can print on labels as small as 5mm.

Also compatible with Brady Workstation and LabelMark™ label creation software from Brady, this printer makes label creation easy and hassle-free.
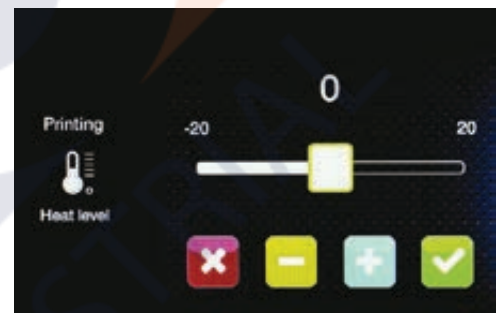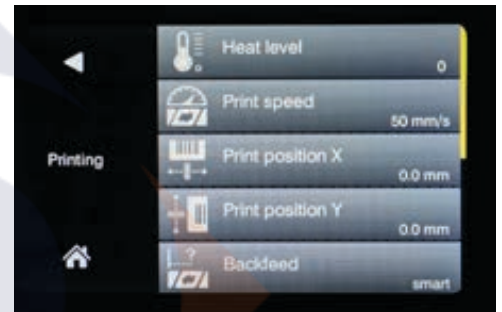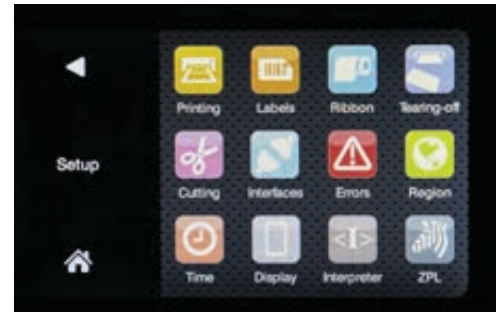
Intelligent printing technology means faster, easier set up

IP-enabled supplies from Brady allow the printer, labels, ribbons and software to work together for efficient label set up and creation. It's all in the IP-enabled RFID tag embedded in our materials – it stores the material size, type, colour, quantity and compatibility. When installed, the tag sends that information to the printer and software, and displays it on screen to provide you with a variety of time- and cost-saving benefits, including:

▶ Supplies remaining gauge Auto sensor select

▶ Auto-part set up in software

▶ Auto print speed and heat setting

▶ Ribbon incompatibility warning
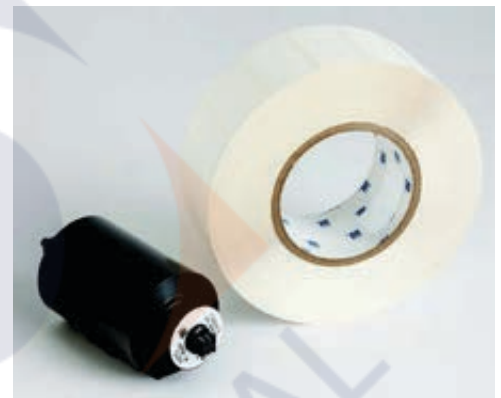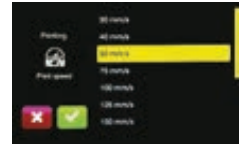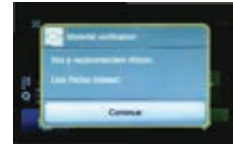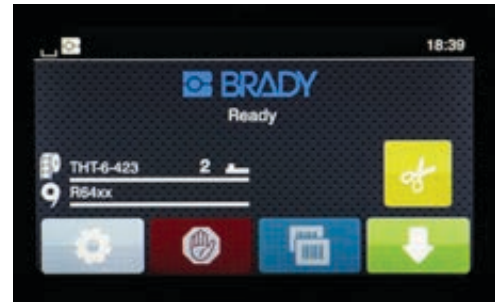
Smart design for fast material changeovers

The specially designed ribbon spindles and roll holder simplify the clumsy loading process of traditional materials. The media rolls easily drop into place quickly and always in the correct orientation. This feature makes this printer ideal for facilities that use a variety of materials throughout the day.

Reduce print head wear with variable roller widths

To keep your printer running smoothly and to avoid unnecessary costs, the BradyPrinter i5100 has rollers available in a variety of widths that can be quickly changed out and replaced to improve print head life. These rollers are designed to be used with materials that are similar widths to help reduce wear on the print head.

Connect with confidence

The i5100 provides a diverse set of connection ports on the back of the printer, allowing you to connect common devices to the printer.

1 ▶ SD memory card slot

2 ▶ 2 x USB host ports

(for memory stick, scanner, keyboard, BT adapter, WLAN stick and service key)

3 ▶ USB 2.0 Hi-speed device port

for PC connection

4 ▶ Ethernet 10/100 BASE-T port

5 ▶ RS232C Interface 1.200 to 230.400 baud/8 bit

6 ▶ WLAN hotspot or infrastructure mode

(in hotspot mode it is possible to directly connect a mobile device to the printer via WLAN)

BradyPrinter i5100 printers and accessories

Printers

Printers ship ready to use with 1 auto-detect media roll holder, 1 ribbon takeup spindle, power cord, USB cable, user manual, user license for Brady Workstation Basic Design Suite, and a CD that contains drivers, user manual in 24 languages and configuration manual.

Part No.	Description	Details
878247	i5100 Industrial Label Printer, Standard Version, 300 dpi	Prints on labels, tags and select continuous media wound on rolls or fanfolded. Media is torn off after printing using tear bar that is standard on printer
878248	i5100 Industrial Label Printer, Standard Version, 600 dpi	Prints on labels, tags and select continuous media wound on rolls or fanfolded. Media is torn off after printing using tear bar that is standard on printer. 600 dpi head is ideal for smaller fonts, intricate graphics and bar coding, including 2D codes

Accessories

Part No.	Description	Details
149470	Spare i5100/IP Media Roll Holder, Auto-detect	Holds 75mm open core media rolls and auto-detects Brady IP-enabled media rolls. Separates and slides back together easily for fast self-centering installation of media roll. Also fits Brady IP-model printers
149562	Spare i5100/IP Ribbon Takeup Spindle	Features flexible green tab for faster ribbon threading and a quick-release lever for removing used ribbon from spindle. When using this spindle, no separate cardboard ribbon core is needed. Also fits Brady IP-model printers
149131	USB WLAN Stick	2.4 GHz 802.11b/g/n + 5 GHz a/n/ac with rod antenna for extended reach
149080	USB Bluetooth Adapter	USB Bluetooth adapter
149563	RS232 Cable	Connecting cable RS232 C 9/9 pin, 3 m length

Replaceable print rollers

Minimise wear on the print head by pairing narrow rollers with narrow media — always be sure the roller is wider than the label media and the ribbon is wider than the roller.

Part No.	Description	Details
149471	Print Roller 120 mm	For media up to 119 mm wide. Use ribbon that is at least 121 mm wide
149598	Print Roller 80 mm	For media up to 79 mm wide. Use ribbon that is at least 81 mm wide
149473	Print Roller 50 mm	For media up to 49 mm wide. Use ribbon that is at least 51 mm wide
149472	Print Roller 25 mm	For media up to 24 mm wide. Use ribbon that is at least 26 mm wide
33969	IPA Printer Cleaning Swabs	Pre-soaked in IPA, lint-free synthetic cleaning swabs for cleaning rollers, print heads and sensors. Package of 50 individually wrapped swabs

The right label from the right company

Nothing leaves Brady's doors without meeting the highest quality standards. Backed by more than 100 years of identification experience and rigorous R&D testing, Brady manufactures materials you can trust.

The BradyPrinter i5100 offers more than 100 label materials, more than 3,000 stock label parts and made-to-spec custom materials and parts that can be used in a variety of applications, including:

Product ID and production line applications

- ▶ Metallised labels and rating plates
- ▶ QA testing labels
- ▶ Tamper-evident and tamper resistant labels

- ▶ Product labels
- ▶ Work-in-process labels
- ▶ Repositionable labels
- ▶ Barcode labels
- ▶ Destructible labels
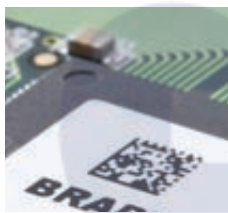
Electronics and PC board applications

- ▶ Polyimide labels
- ▶ Electrostatic dissipative labels

- ▶ Polyester labels
- ▶ Removable polyimide labels
- ▶ PC board component labels

Logistics, general industrial and asset ID applications

- ▶ Paper labels
- ▶ Asset tracking labels
- ▶ Tamper-evident and tamper-resistant labels

- ▶ Tote and pallet labels
- ▶ Tag stock
- ▶ Repositionable labels
- ▶ Polyester labels
- ▶ Bin and shelf labels

Electrical and automation applications

- ▶ Adhesive wire label wraps
- ▶ Self-laminating wire markers
- ▶ Heat-shrink wire sleeves
- ▶ Inside panel labels

- ▶ Cable tags
- ▶ Push button / engraved plate alternative labels
- ▶ Panel rating plate materials
- ▶ General purpose labels
- ▶ Arc flash panel labels

Laboratory and sample tracking applications

- ▶ Tube and vial labels
- ▶ Cryo labels
- ▶ Slide labels / solvent resistant labels
- ▶ Removable labels for glassware

- ▶ Labels for humidity, moisture, water, bath and autoclave
- ▶ Dish, tray and well plate labels
- ▶ Tissue cassette labels and applicators
- ▶ General lab equipment labels

BradyID.com.au/i5100

i5100 Print Ribbons

IP-enabled ribbons from Brady are designed to guarantee correct ink-facing orientation every time, which prevents damage to your print head and allows you to load ribbons quickly, and get back to work.

Ribbon Series Description	Part No.	Size (mm x m)	Colour
R4300 Wax/Resin Strong environmental resistance against smearing and chemicals. Also, reliable, sharp-edge print quality to maximise barcode readability.	66030	40 x 300	Black
	66028	60 x 300	Black
	66027	83 x 300	Black
	65886	110 x 300	Black
R4400 Resin High density, excellent solvent resistance, high heat resistance, scratch resistance.	108261	60 x 300	White
	66033	83 x 300	White
	66032	110 x 300	White
	66096	60 x 300	Green
	66095	83 x 300	Green
	66049	60 x 300	Red
	66097	83 x 300	Red
	66231	110 x 300	Red
	66047	60 x 300	Blue
	66048	83 x 300	Blue
	66232	110 x 300	Blue
R4500 Wax/Resin Strong environmental resistance against smearing and chemicals. Also, reliable, sharp-edge print quality to maximise barcode readability.	66156	60 x 300	Red
	66186	83 x 300	Red
	66229	110 x 300	Red
	66189	83 x 300	Silver
	66098	60 x 300	Blue
	66099	83 x 300	Blue
	66230	110 x 300	Blue
R4900 Resin Superb smear resistance at high temps. Superior solvent resistance.	66035	60 x 300	Black
	66034	83 x 300	Black
R6000 Resin Halogen-free, high density, excellent solvent resistance, high heat resistance, scratch resistance.	66227	40 x 300	Black
	66202	60 x 300	Black
	66226	83 x 300	Black
	65959	110 x 300	Black

Ribbon Series Description	Part No.	Size (mm x m)	Colour
R6100 Wax/Resin Outstanding durability for a general purpose ribbon. Reduced printhead energy requirements.	66038	60 x 300	Black
	66039	83 x 300	Black
	66040	110 x 300	Black
R6200 Resin Designed for harsh environment labelling applications. Superior abrasion, chemical and heat resistance.	66017	40 x 300	Black
	66042	60 x 300	Black
	66043	83 x 300	Black
	66044	110 x 300	Black
R6400 Resin High density, excellent solvent resistance, high heat resistance, scratch resistance.	110382	40 x 300	Black
	66236	60 x 300	Black
	110380	83 x 300	Black
	110381	110 x 300	Black
R6600 Resin Diesel resistant for printing on Brady PermaSleeve® and Heatex™ Sleeves.	110039	60 x 300	Black
	110040	83 x 300	Black
	110041	110 x 300	Black
R6700 Wax/Resin High performance against scratching, smudging and harsh chemicals.	110562	60 x 300	White
	110560	83 x 300	White
	110561	110 x 300	White
R6800 Resin Specialised white ribbon for use with dark-coloured PermaSleeve HT markers.	110565	60 x 300	White
	110563	83 x 300	White
	110564	110 x 300	White
Spare Brady ribbon takeup spindle	149562	-	-
Non-IP-enabled ribbon spindle	872002	-	-

Software for easier label creation

Brady is an innovator of intuitive software to make label creation even easier and more efficient. These software options are designed to guide you through the label creation process to minimise errors and make label creation simple.

Brady Workstation - Label Creation Software

Brady Workstation revolutionises label and sign creation and printing by offering a variety of suites and apps that are easy and efficient to use. Choose and customise the tools you use to complete tasks exactly as you want.

Included with the i5100 Printer:

Basic Design Suite - Get everything you need to create your own custom labels with the Brady Workstation Basic Design Suite. With basic design, formatting, graphics and simple barcode libraries, you can design labels like a pro in no time.

Apps included: Batch Print, Excel Import, Manage Files, Sequence, Template Editor, Label Settings and Custom Designer Lite.

Other apps and suites are available:

1 ▶ **Go to Workstation.BradyID.com**

2 ▶ **Fill the workstation with the apps and suites you want and leave out the ones you don't**

Recommended:

Product and Wire Identification Suite
(sold separately)

13 apps designed for product & wire marking

When you need to create product identification and wire marking labels, the Product and Wire Identification Suite is your go-to solution. It allows you to create basic text labels or advanced labels with graphics and custom formatting, and serialise and import data.

Apps included: Custom Designer, Text Labels, Excel Import, Advanced Import, Sequence, Advanced Sequence, Flip Flop, Template Editor, Batch Print, Label Settings, Print Partner, Manage Files and Network Printers.

For more information on Brady Workstation apps and suites, go to Workstation.BradyID.com

LabelMark™ 6 Label Creation Software

LabelMark Software from Brady is a robust CD-based software solution for label design, data importation and printing labels for a variety of applications. Print Partner companion software allows you to create and manage print-only files across multiple print stations and sites, and our Data Automation companion software allows you to integrate automated printing within your workplace and third-party systems.

Printer Specifications

Model(s):	
Model name	i5100 Industrial Label Printer
Media alignment	Center justified

User Interface:	
Display type	Touchscreen colour LCD
Display size (diagonal)	110mm
Display resolution (H x W)	272 x 480 pixels
Display languages	Arabic (Egypt), Bulgarian, Chinese (simplified), Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Korean, Lithuanian, Macedonian, Norwegian, Persian (Farsi), Polish, Portuguese, Romanian, Russian, Serbian, Slovenian, Spanish (Castilian), Spanish (Mexico Latin Amer), Swedish, Thai, Turkish
Display status bar	Brady mode or standard mode, ribbon and label part number installed, amount of supplies remaining, sensor activated, where to set sensor, receiving data, record data stream, ribbon warning, Bluetooth, WLAN, Ethernet, USB slave, time, presence of SD card and USB stick

Print Head / Printing Characteristics:	
Print resolution	300 dpi 600 dpi
Print method	Thermal transfer (300 or 600 dpi) Direct thermal (300 dpi - material & printhead dependent)
Print colour capability	Single print colour
Print speed	Up to 300mm/sec (300 dpi) Up to 150mm/sec (600 dpi)
Print width (max, cross-web)	105mm
Print length (max, down-web)	2 metres
Media cut-off	Tear bar, optional auto-cutter model

Media Characteristics:	
IP-enabled printing	Yes - reads IP-enabled supplies for Brady mode printing
Media width (cross-web incl liner)	6 to 85mm (continuous sleeves) 9 to 112mm (other materials)
Label width (cross-web)	5 to 110mm
Label length (down-web)**	5mm minimum (w/no backfeed) 12mm minimum (w/backfeed) 12mm minimum (if cutting single label)
Media thickness	0.6mm to 0.7mm (label materials) 1.8mm max (push button labels) 1mm
Media roll O.D. (max)	200mm
Media roll core I.D.	75 to 100mm
Media roll winding	Outside or inside
Internal rewind takeup roll O.D. (max)	n/a
Internal rewind takeup roll core I.D.	n/a
Internal rewind takeup roll winding	n/a
Media styles	Die cut media, continuous media, 75mm core roll-fed media, fanfolded media (external feed), tagstock liner-mounted, tagstock linerless, perforated materials, adhesive labels, heat-shrink sleeves size 125 and larger (single sided), continuous sleeves size 125 and larger externally fed, self-laminating cable labels, raised panel push button labels (with no backfeed or autocut), rapido-style cable tags, Permashield style labels
Media material types****	IP-enabled media and ribbon rolls (for Brady mode printing), PE (polyethylene), PET (polyester), PET Metallised, PU (polyurethane), PVC (vinyl), PVF (polyvinyl fluoride), PVDF (polyvinylidene fluoride), PP (polypropylene), PI (polyimide), polyamide, polyether polyurethane (Heatex™), raised panel push button material, paper, destructible materials, tamper-evident and tamper-resistant materials, other materials not listed
Media parts offering	2900+ stock parts and custom (made-to-spec) parts

Ribbon Characteristics:	
Ribbon length (max)	304mm
Ribbon roll O.D. (max)	69mm
Ribbon roll core I.D.	No core needed (IP-enabled supplies), otherwise 25mm
Ribbon width (cross-web)***	25 to 114mm
Ink side	Inside or outside wound

Electronics:	
Processor	32 bit 800 MHz clock rate
Memory (RAM)	256 MB
Data storage (IFFS)	50 MB
SD card slot (SDHC, SDXC)	512 GB max
Internal battery	For internal date and time (RTC)
Data storage when power off	Yes

Physical / Operational Characteristics:	
Dimensions (closed) (H x W x D)	31 x 241 x 434mm
Weight (empty)	6.62kg
Power supply	100 - 240V AC, 50/60 Hz, PFC
Power consumption	<10W standby / 150W typical / 300W max
Operating environment	0 - 40°C / 10 - 85% RH non condensing
Storage environment	0 - 60°C / 20 - 85% RH non condensing
Transport environment	-25 - 60°C / 20 - 85% RH non condensing
Agency approvals	CE, FCC class A, cUL. Contact Brady for up-to-date list of environmental compliance information and agency approvals and/or marks covering over 75 countries (awarded or applied for)

Fonts and Graphics:	
Font types (resident)	6 bitmap fonts - including OCR-A, OCR-B 3 vector fonts - Swiss 721, Swiss bold 721, Monospace 821
Font types (storable to printer)	TrueType fonts storable to printer via jump drive
Font attributes	Bold, italic, underlined, outline, negative depending on font
Font scaling (bitmap)	Width & height range: 1 to 3mm. Zoom factor: settings 2 to 10 rotation: 0°, 90°, 180°, 270°
Font scaling (vector & truetype)	Width and height range: 9 to 130mm. Zoom factor: variable (dot-by-dot) rotation: 360° in steps of 1°
Character sets	Windows 1250 up to 1257, DOS 437,737,755,850,852,857,862,864,866,8 69, EBC DIC 500, ISO 8859-1 to-10 and -13 to -16, Win OEM 720, UTF8, Macintosh, Roman, DEC MCS, KO18-R, All West and East European characters and Latin, Cyrillic, Greek, Hebrew, Arabic, simplified Chinese, and Thai characters are supported
Graphic elements	Arrows, lines, rectangles, circles, ellipses; filled and filled with fading
Graphic formats	PCX, IMG, BMP, TIF, MAC, PNG

Barcodes:	
Barcode symbologies - linear	Code 39, Code 39 Full ASCII, Code 93, Code 128 A, B, C, Codabar, Deutsche Post (indent- and routing), EAN 8, 13, EAN/UCC 128/GS1-128, EAN/UPC Appdx 2 and Appdx 5, FIM, HIBC, Interleaved 2/5, JAN 8, 13, MSI, Plessey, Postnet, RSS 14, UPC A, E, E0
Barcode symbologies - 2D	Aztec, DataMatrix, QR Code, PDF 417, UPS MaxiCode, GS1 Databar, Codablock F, Micro PDF 17, RSS 14 (truncated, limited, stacked, stacked omni-dir), EAN/GS1 DataMatrix
Barcode attributes	Sizing: variable in height, modular width and ratio Rotation: 0°, 90°, 180°, 270°

Interfaces and Connection:	
USB 2.0 hi-speed device port	For PC connect
2 x USB host (back panel)	For scanner, keyboard, USB memory stick, USB bluetooth adapter, USB WLAN stick w/antenna
1 x RS232-C	For serial cable connection. 1,200 - 230,400 baud/8 bit
1 x Ethernet 10/100 BASE-T	For networking, remote access, and firmware updates
1 x SD slot	For memory card (SDHC, SDXC)

Software and Firmware:	
Label creation software	Brady Workstation (v4.1 or newer) Brady LabelMark Software (v6.6.1 or newer)
WHQL certified Windows® drivers****	Windows 7, 8, 8.1, 10, Server 2008, 2008 R2, 2012, 2012 R2, 2016
Printer command language	Jscript - scripting commands for sending scripts to the printer
Printer compiler language	abc basic - for placing embedded logic programming and prompts onto the printer
Printer administration / monitoring	Web-based remote access - allows printer control, configuration, firmware updates, memory card admin and time/date synchronization, and will send printer status, and error messages to users
Open source software	Go to www.BradyID.com/i5100compliance for a list of open source software files used in this product

Options / Accessories:	
Replacement print heads	Factory installed via Brady tech repair
Replacement print rollers***	Variable widths to protect print head with narrow supplies - field installable
Auto cutter	Optional auto cutter model

**   User should test to the application. Print performance on small labels or a part that is below the minimum label dimension spec. is dependent on multiple factors, including print speed, qty in print run, heat setting and the size/layout of the printed elements.

***   Use narrow print roller with narrow media, but to avoid head damage, ALWAYS be sure roller is wider than total media width, and ribbon is wider than the roller width.

**** Windows® is a registered trademark of Microsoft Corporation.

BRADY®

Feel confident that your BradyPrinter i5100 is covered by our 5-year benchtop printer warranty. You'll benefit from our staff of support and repair technicians for troubleshooting support, set-up assistance and how-to guidance and repair services. Visit www.bradyid.com.au/warranty for full warranty coverage details.

SUPPORT YOU CAN RELY ON

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