i7500
Industrial Label Printer
Printer Specifications

The i7500's enhanced technology starts from the inside out, delivering high-precision printing with low-maintenance operation.

Model(s):

Model name	i7500
Media alignment	Center justified
Volume guidelines**	7000+ labels per day, 7 days per week

Smart Operating Mode:

Smart vs manual operation	**Smart Mode:** When using i75-series label and ribbon rolls **Manual Modes:** When using non-i75-series label and ribbon rolls
LabelSense™ Print Technology	Yes — using i75-series rolls the printer reads smart chip on supplies for no-waste printing; requires no calibration of blank labels; has pre-optimized heat and speed settings and features auto label setup in Brady software
Sensor, speed and heat adjustments	When using i75-series rolls no calibration required; no wasted labels. Sensor location, sensor mode, speed and heat settings are auto-set.
Media loading / handling (Smart Mode)	**Labels:** Open core roll with i75 smart chip, feed material into guides, 20-second changeover, no need to set sensor or calibrate **Ribbon:** On a cartridge, slides into place and always self-centers with ink facing label, 20-second changeover
Media loading / handling (Manual Mode)	**Labels:** Open core non-smart roll, feed material into guides, set sensor and calibrate out blank labels **Ribbon:** Open core manual roll, slides into place. Must center, must check ink-side

Print Head / Printing Characteristics:

Print resolution	300 dpi 600 dpi
Print method	Thermal transfer (300 or 600 dpi) Direct thermal (300 dpi - material dependent)
Cutter type / auto cutter	Auto cutters optional (for Standard config. only)
Print color capability	Single color
Print speed	**Smart Mode** up to 7 in. / sec – die cuts (300 dpi) up to 12 in. / sec – continuous (300 dpi) **Manual Mode / Partial Smart Mode** up to 10 in. / sec – die cuts (300 dpi) up to 12 in. / sec – continuous (300 dpi)
Print width (max, cross-web)	4.16 in.
Print length (max, down-web)	60 in. (continuous media) 12 in. (die-cut media)
Print job interrupt options	Resume print job where pause or interruption occurs, or select specific label in job
Printhead replacement	User replaceable to same or different dpi with no firmware update. Use only Brady print heads #177722 (300 dpi)
Print roller replacement	Field replaceable (T-20 wrench required)
Print on demand	Yes
Print pause	Yes
Print job list on stand-alone printer	Yes — Brady Workstation print jobs can be saved to printer for later on-printer selection and printing. This function also write-protects the print jobs from unwanted editing.

Label Media Characteristics:

Media roll core i.d.	3 in.
Media roll o.d. (max)	8.5 in. 10 in. (with rear housing removed)
Internal rewind roll core i.d. (peel config only)	1.5 in. cardboard core
Internal rewind roll o.d. (max) (Peel config. only)	5.6 in.
Label roll types	Gapped Notched Continuous Black Mark
Label length (down-web)***	0.125 in. to 12 in. (die-cut media) 0.40 in. minimum (cut label length)
Media width (cross-web, including liner)	0.17 in. to 4.49 in.
Media thickness*	0.0024 in. to 0.031 in. max (label media) 0.0276 in. max (B-593 media) 0.02 in. to 0.043 in. max (heat shrink sleeves) Max thickness 0.077 in.
Media roll winding	Outside or inside
Media parts offering	4,000+ stock parts and custom (made-to-spec) parts
Media styles	Die cut media, continuous media, open core roll-fed media, fanfolded media (external feed), tagstock liner-mounted, tagstock linerless, perforated materials, adhesive labels, heat-shrink sleeves (single sided and double sided with re-insert), continuous heat-shrink sleeves (partially flattened), self-laminating cable labels, zip-tie cable tags. Some media styles not available with i75-series smart technology.
Media material types	PE (polyethylene), PET (polyester), PET Metallized, PU (polyurethane), PVC (vinyl), PVF (polyvinyl fluoride), PVDF (polyvinylidene fluoride), PP (polypropylene), PI (polyimide), Polyamide, Tedlar®, Nomex®, polyether polyurethane (Heatex™), raised panel push button material, paper, destructible materials, tamper-evident and tamper-resistant materials; other materials not listed

Ribbon Characteristics:

Ribbon length (max)	984 ft. (i75-series smart ribbons) 1500 ft. (manual ribbons)
Ribbon roll o.d. (max)	3.15 in. (i75-series smart ribbons) 3.54 in. (manual ribbons)
Ribbon roll core i.d.	1 in. (manual ribbons)
Ribbon width (max, cross-web)	4.5 in.
Ink side	Outside wound

Display Interface:

Display type	Color LCD touchscreen
Display size (diagonal)	7 in. (177.80 mm)
Display resolution (H x W)	600 x 1024 pixels

Display Interface: (Continued)

Display languages	Bahasa Indonesia, Bahasa Melayu, Bulgarian, Chinese (simplified), Chinese (traditional), Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish, Thai, Vietnamese
Display status bar	Installed ribbon and label part numbers, amount of supplies remaining, Wi-Fi connection, Ethernet connection, USB connection, receiving data icon, ready state / error state, time, Bluetooth connection (future functionality)

Software and Firmware:

Label creation software	Brady Workstation (v4.21 or newer) and Brady Workstation apps (latest updates)
Windows® drivers	Windows 8.1, 10, 11 Server 2012, 2012 R2, 2016
Printer command language emulation	ZPL — scripting commands for sending scripts to the printer
Printer compiler language	C++ — for placing embedded logic programming & prompts onto the printer
Printer administration / monitoring	Web-based remote access (future funtionality) — allows printer control, configuration, firmware updates, memory card admin and time / date synchronization, and will send printer status, and error messages to users

Interfaces and Connectivity:

PC connection port	1 x USB 2.0 hi-speed device port
Ethernet	1 x Ethernet 100 BASE-T
USB host ports	3 x USB 2.0 type A host port (1 front, 2 back)
Accessory Port	1 x 40-pin socket connector (front lower panel) For peripheral accessory connection only (e.g., Auto Cutter, Label Taken Sensor, etc.)
I/O Port	1 x Digital I/O - (back panel - optional) DB-25F connector (isolated 24V-compatible digital I/O ports)
Wireless	Wi-Fi 802.11b/g/n (wireless model only)
Bluetooth	Bluetooth 5.0

Electronics:

Processor	32-bit 1 GHz clock rate
Memory (RAM)	512 MB
Data storage (IFFS)	32 GB
Internal battery	For internal date & time (RTC)
Data storage when power off	Yes

Physical / Operational Characteristics:

Dimensions (closed) (HxWxD)	14.6 in. x 11.5 in. x 20.9 in. (372.0 mm x 291.5 mm x 530.0 mm)
Weight (empty)	40 lbs
Power supply	100 - 240 VAC, 50/60 Hz, PFC
Power consumption	<10W standby / 150W typical / 300W max
Operating environment	10 - 40°C / 10 - 85% RH non condensing
Storage environment	-20 - 50°C / 15 - 90% RH non condensing
Transport environment	-20 - 50°C / 15 - 90% 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:

Character sets	Windows 1250 to 1252, 1254, 1257, DOS 852, 857, 866, 869, EBC DIC 500, ISO 8859-1 to -5, 9-11,13, 15 and 16, UTF8, Macintosh, Roman, DEC MCS, KO18-R, all west and east european characters and Latin, Cyrillic, simplified Chinese, traditional Chinese and Thai characters are supported
Font types (resident)	Arial, BradyBoldCond, Noto Sans, Noto Sans Thai, Times New Roman
Font types (storable to printer)	TrueType fonts storable to printer via jump drive
Font attributes	Bold, italic, underlined, negative, subscript, superscript, 6 and 9 underscore, expand/condense, line height
Font scaling (vector & TrueType)	Width & height range: 0.35 in. to 5.04 in. Zoom factor: Variable (dot-by-dot) Rotation: 0°, 90°, 180°, 270°
Graphic elements	Arrow, line, multiple line, rectangle, rounded rectangle, square, circle, ellipse, diamond, star, triangle, rounded triangle, seal, octagon
Graphic formats	BMP, GIF, JPEG, PNG

Barcodes:

Barcode symbologies - 2D	Aztec, DataMatrix, GS1 DataMatrix, MicroPDF417, PDF417, QR
Barcode symbologies - linear	Codabar, Code 39, Code 39 Full ASCII, Code 93, Code 93 Full ASCII, Code 128 A, B, C, EAN-8/Jan 8, EAN-8/Jan 8 Ext 2, EAN-8/Jan 8 Ext 5, EAN-13/Jan 13, EAN-13/Jan 13 Ext 2, EAN-13/Jan 13 Ext 5, GS1-128, HIBC, Interleaved 2 of 5, ITF14, UPC-A, UPC-E
Barcode attributes	Sizing: variable in height, modular width and ratio Rotation: 0°, 90°, 180°, 270°

Options / Accessories:

Replacement printheads	Brady printheads #177722 (300dpi). No other printheads approved for use.
Replacement print rollers	Variable widths to improve printhead protection with narrow supplies - field installable****
Auto cutter	Full-cut auto cutter and perf-cut auto cutter available; field-installable to front panel
Label Taken Sensor (Peel config only)	For auto advance and print on peel model printer Field installable to front of printer*****
I/O Interface	Field installable to rear of printer

* Peel mode printing by definition requires empty liner takeup and therefore some blank labels must be removed in setup.

** General volume levels for directional model comparison purposes only. Assumes basic text on 1 in. x 2 in. polyester labels. Actual results vary depending on combination of material, burn and speed settings, label content, ambient temperature and length of print run.

*** User should test to the application. Print performance on small parts or parts smaller than a printer's minimum label dimension spec is dependent on multiple factors including print speed, quantity in print run, heat setting, and the size / layout of the printed elements.

**** To avoid excessive printhead wear, print roller should be wider than label media and ribbon should be wider than roller—this prevents exposed printhead against exposed roller.

***** User should test any material for peel printing to the intended application. Print & peel performance on any label is dependent on multiple factors including auto-present charactieristics of label material, peel offset distance, and print speed. (Spring 2025)

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