

# 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 | <b>Smart Mode:</b> When using i75-series label and ribbon rolls |
|---------------------------|---|

|                              |   |
|------------------------------|---|
| LabelSense™ Print Technology | <b>Manual Modes:</b> 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) | <b>Labels:</b> Open core roll with i75 smart chip, feed material into guides, 20-second changeover, no need to set sensor or calibrate |
|---------------------------------------|--|

|                                       |  |
|---------------------------------------|--|
| Media loading / handling (Smart Mode) | <b>Ribbon:</b> On a cartridge, slides into place and always self-centers with ink facing label, 20-second changeover |
|---------------------------------------|--|

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|--|---|
| Media loading / handling (Manual Mode) | <b>Labels:</b> Open core non-smart roll, feed material into guides, set sensor and calibrate out blank labels |
|--|---|

|  |   |
|--|---|
| Media loading / handling (Manual Mode) | <b>Ribbon:</b> Open core manual roll, slides into place. Must center, must check ink-side |
|--|---|

#### Print Head / Printing Characteristics:

|                  |         |
|------------------|---------|
| Print resolution | 300 dpi |
|------------------|---------|

|                  |         |
|------------------|---------|
| Print resolution | 600 dpi |
|------------------|---------|

|              |                                   |
|--------------|-----------------------------------|
| Print method | Thermal transfer (300 or 600 dpi) |
|--------------|-----------------------------------|

|              |   |
|--------------|---|
| Print method | Direct thermal (300 dpi - material dependent) |
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|---------------------------|---|
| Cutter type / auto cutter | Auto cutters optional (for Standard config. only) |
|---------------------------|---|

|                        |              |
|------------------------|--------------|
| Print color capability | Single color |
|------------------------|--------------|

|             |  |
|-------------|--|
| Print speed | <b>Smart Mode</b><br>up to 7 in. / sec – die cuts (300 dpi)<br>up to 12 in. / sec – continuous (300 dpi)<br>up to 5 in. / sec – die cuts (600 dpi)<br>up to 6 in. / sec – continuous (600 dpi) |
|-------------|--|

|             |   |
|-------------|---|
| Print speed | <b>Manual Mode / Partial Smart Mode</b><br>up to 10 in. / sec – die cuts (300 dpi)<br>up to 12 in. / sec – continuous (300 dpi)<br>up to 6 in. / sec – die cuts (600 dpi)<br>up to 6 in. / sec – continuous (600 dpi) |
|-------------|---|

|                              |          |
|------------------------------|----------|
| Print width (max, cross-web) | 4.16 in. |
|------------------------------|----------|

|                              |                           |
|------------------------------|---------------------------|
| Print length (max, down-web) | 60 in. (continuous media) |
|------------------------------|---------------------------|

|                              |                        |
|------------------------------|------------------------|
| Print length (max, down-web) | 12 in. (die-cut media) |
|------------------------------|------------------------|

|                              |                                       |
|------------------------------|---------------------------------------|
| Print length (max, down-web) | 9.8 in. (die-cut media peel mode****) |
|------------------------------|---------------------------------------|

|                             |  |
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| Print job interrupt options | Resume print job where pause or interruption occurs, or select specific label in job |
|-----------------------------|--|

#### Print Head / Printing Characteristics: (Continued)

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|-----------------------|---|
| Printhead replacement | User replaceable to same or different dpi with no firmware update.<br>Use only Brady print heads #177722 (300 dpi) and #177723 (600dpi) |
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|                          |  |
|--------------------------|--|
| Print roller replacement | Field replaceable (T-20 wrench required) |
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|                 |     |
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| Print on demand | Yes |
|-----------------|-----|

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|-------------|-----|
| Print pause | Yes |
|-------------|-----|

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|---------------------------------------|---|
| 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. |
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#### Label Media Characteristics:

|                      |       |
|----------------------|-------|
| Media roll core i.d. | 3 in. |
|----------------------|-------|

|                       |         |
|-----------------------|---------|
| Media roll o.d. (max) | 8.5 in. |
|-----------------------|---------|

|   |                                    |
|---|------------------------------------|
| Internal rewind roll core i.d. (peel config only) | 10 in. (with rear housing removed) |
|---|------------------------------------|

|   |                        |
|---|------------------------|
| Internal rewind roll o.d. (max) (Peel config. only) | 1.5 in. cardboard core |
|---|------------------------|

|                  |         |
|------------------|---------|
| Label roll types | 5.6 in. |
|------------------|---------|

|        |  |
|--------|--|
| Gapped |  |
|--------|--|

|         |  |
|---------|--|
| Notched |  |
|---------|--|

|            |  |
|------------|--|
| Continuous |  |
|------------|--|

|                          |  |
|--------------------------|--|
| Black Mark (spring 2025) |  |
|--------------------------|--|

|                         |   |
|-------------------------|---|
| Label width (cross-web) | 0.158 in. to 4.33 in. (continuous liner-less media) |
|-------------------------|---|

|                         |                                     |
|-------------------------|-------------------------------------|
| Label width (cross-web) | 0.158 in. to 4.13 in. (other media) |
|-------------------------|-------------------------------------|

|                            |                                     |
|----------------------------|-------------------------------------|
| Label length (down-web)*** | 0.125 in. to 12 in. (die-cut media) |
|----------------------------|-------------------------------------|

|                            |  |
|----------------------------|--|
| Label length (down-web)*** | 0.240 in. to 9.8 in. (die-cut media peel mode****) |
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|                            |                                     |
|----------------------------|-------------------------------------|
| Label length (down-web)*** | 0.40 in. minimum (cut label length) |
|----------------------------|-------------------------------------|

|  |                      |
|--|----------------------|
| Media width (cross-web, including liner) | 0.17 in. to 4.49 in. |
|--|----------------------|

|  |                                     |
|--|-------------------------------------|
| Media width (cross-web, including liner) | 0.50 in. to 4.0 in. (peel mode****) |
|--|-------------------------------------|

|                  |   |
|------------------|---|
| Media thickness* | 0.0024 in. to 0.031 in. max (label media) |
|------------------|---|

|                  |                              |
|------------------|------------------------------|
| Media thickness* | 0.0276 in. max (B-593 media) |
|------------------|------------------------------|

|                  |   |
|------------------|---|
| Media thickness* | 0.02 in. to 0.043 in. max (heat shrink sleeves) |
|------------------|---|

|                  |                         |
|------------------|-------------------------|
| Media thickness* | 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)<br>1500 ft. (manual ribbons)  |
| Ribbon roll o.d. (max)        | 3.15 in. (i75-series smart ribbons)<br>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 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)<br>Express Labels Mobile   |
| Windows® drivers                    | Windows 8.1, 10, 11<br>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 functionality)<br>— 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)<br>For peripheral accessory connection only<br>(e.g., Auto Cutter, Label Taken Sensor, etc.)<br>For automatic next label print-and-peel on peel model printer. Field installable to front of printer**** |
| Wireless           | Wi-Fi 802.11b/g/n (wireless model only)  |
| Bluetooth          | Bluetooth 5.0 (spring 2025)  |

## 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)<br>(HxWxD) | 14.6 in. x 11.5 in. x 20.9 in.<br>(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                             |

## Physical / Operational Characteristics: (Continued)

|                       |   |
|-----------------------|---|
| 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, EBCDIC 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 (storables to printer) | TrueType fonts storables 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.<br>Zoom factor: Variable (dot-by-dot)<br>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<br>Rotation: 0°, 90°, 180°, 270° |
|--------------------|--|

## Options / Accessories:

|                                       |  |
|---------------------------------------|--|
| Replacement printheads                | Brady printheads #177722 (300dpi) and #177723 (600dpi).<br>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<br>Field installable to front of printer*****   |

\* Peel mode printing by definition requires empty liner takeup and therefore some blank labels must be removed in setup. (Spring 2025)

\*\* 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 characteristics of label material, peel offset distance, and print speed. (Spring 2025)

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